PRODUCT CATALOG CANADA

Disconnect Switches

Fusible, Non-fusible, Enclosed, Cam switches



- Reliability and performance
- Safe maintenance and operation
- Proven and practical

Disconect switches

GENERAL INFORMATION

OPEN STYLE NON FUSIBLE DISCONNECT SWITCHES

OPEN STYLE FUSIBLE DISCONNECT SWITCHES

ENCLOSED FUSIBLE & NON FUSIBLE DISCONNECT SWITCHES

DC DISCONNECT SWITCHES

ACCESSORIES

DIMENSIONAL DRAWINGS

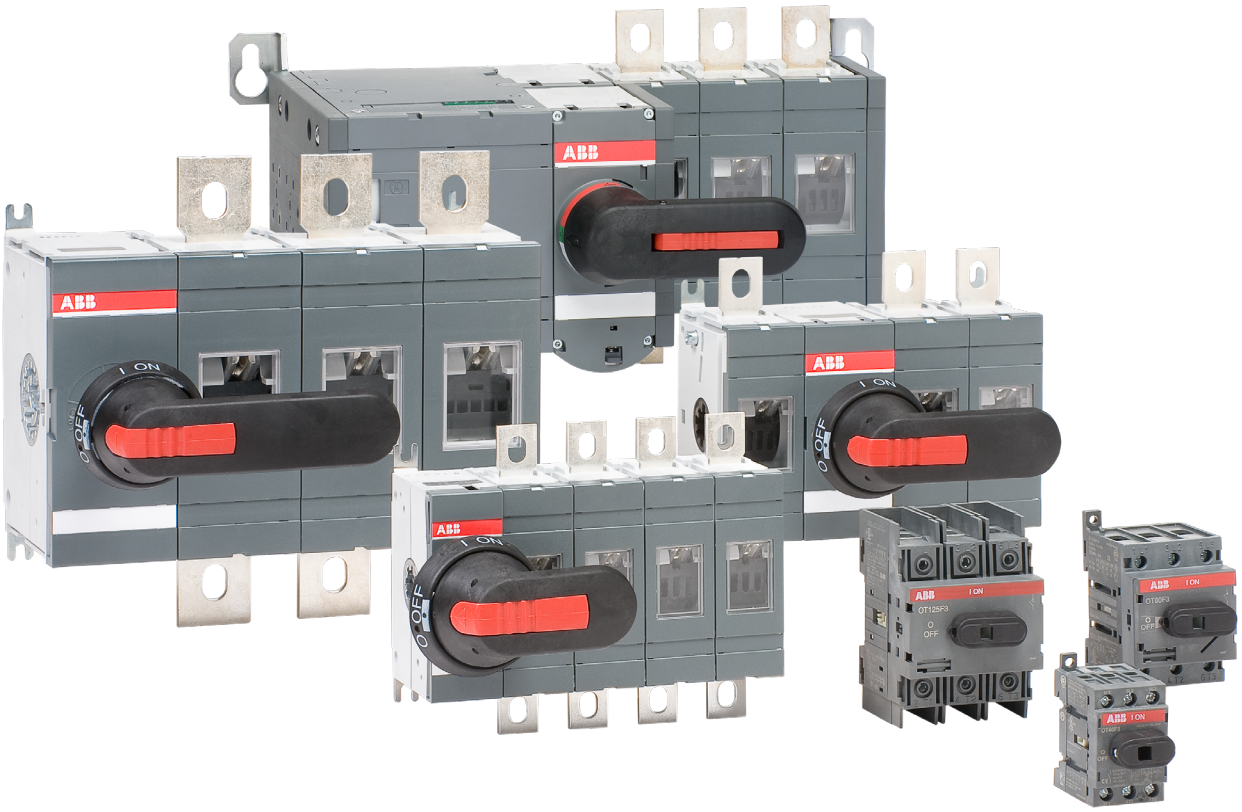
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General Information

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Use of CSA C22.2 No.4 & No.14 according to CEC section 28	1/19



General information
Open style fusible & non fusible disconnect switches

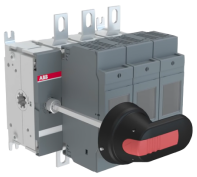


Versatility
ABB disconnect switches are designed to offer maximum versatility in many ways.

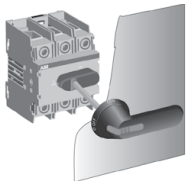
Broad range
ABB's open style non-fusible switches have sixteen amperage sizes from 16-2000 A. The fusible range is 30-1200 A. All sizes are compact, heavy duty, 600V, disconnect switches. Many sizes are available in 2, 3,4,6 and 8 pole configurations. ABB's offer also includes non-fusible DC swiches form 16-1000A specifically designed for solar applications and general duty enclosed switches, both fusible (30-1200 A) and non-fusible (16-2000 A).

Compact size
The non-fusible disconnect switches compact dimensions allow panel size reduction in new applications or easily retrofit into space-sensitive existing installations. The fusible disconnect occupies only little more panel space than the appropriate fuses.

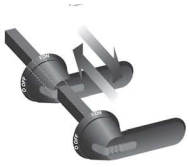
General information
Open style fusible & non fusible disconnect switches



International acceptance
ULus listed, IEC rated, CE marked, and most other international standards.
UL98 (CSA 22.2 No.4) — cULus File # E101914
For OT30-OT2000, OS30-1200 switches with pistol grip handles. Suitable for use as motor disconnects or industrial control panel disconnects on service entrance equipment, panelboards, switchboards, industrial control equipment, motor control centers, etc. and are horsepower and ampere rated.

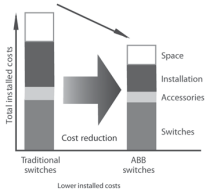


UL508 (CSA 22.2 No. 14) — cULus File # E63822
For OT16, OT25, OT40, OT63, OT80 switches, OH_ selector handles.
Suitable for use in equipment or machinery as motor controllers & motor disconnects and are horsepower and ampere rated.



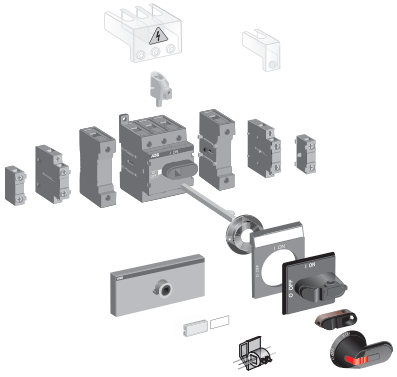
IEC
Tested in accordance to IEC 60947-1 and 3.

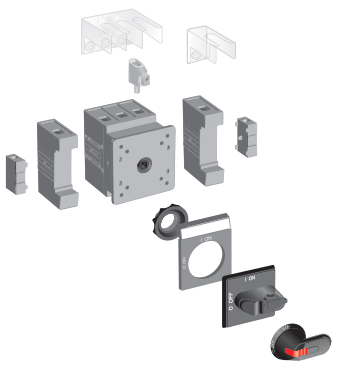
CE
Compliance with the European Machine Directive IEC/EN 60204.



Installation options
Rotary through the door: available in all sizes, non-fusible 16-2000 A; fusible 30-1200 A
Flange: versions available in 30-1200 A sizes.
A rotary disconnect may be installed nearly anywhere in a control panel — mounting is not limited to the upper right hand corner of the panel.
Mount the disconnect where it conveniently fits in your panel and simply install the handle on the door, in line with the disconnect. The disconnect and handle are mechanically linked through an easily adjusted shaft. This allows fast and easy installation into panels of different depths and layouts.

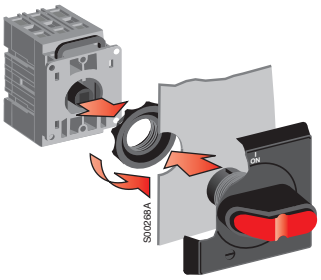
Broad range of accessories
- Handles — UL/NEMA type 1, 3R, 12, 4, 4X; IP54, 65, 66
- Auxiliary contacts available for every disconnect size
- Additional power poles
- Additional terminal poles (neutrals & grounds)
- Terminal shrouds
- 6 & 8 pole mechanisms
- Transfer mechanisms
- Bypass mechanisms
- Mechanical interlock mechanisms
- Electro-mechanical interlock mechanisms





General information
Open style fusible & non fusible disconnect switches

Mounting
Disconnect switches offer several mounting possibilities:
- Door mountin on an enclosure door or sidewall for non fusible 16...100A
- DIN rail mounting for non-fusible, 16 - 200 A; and fusible, 30 - 100 A
- Base mounting with screws for all disconnect sizes
- Adjustable mounting feet for non-fusible, 200 - 1 200 A, and fusible 60 -1200 A



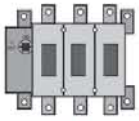
Door mounting

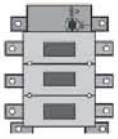


Base screw mounting


DIN rail mounting

Mounting positions
Disconnect switches offer several mounting possibilities:


Horizontal


Vertical


Ceiling

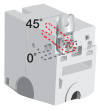

Floor

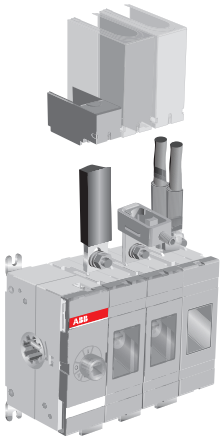
Terminal connections
Versatile connecting possibilities for non-fusible and fusible switches
- Ring tongue crimp on lugs, IEC
- Direct bus, IEC
- Terminal lugs, CSA

Finger proof
Dead-front construction plus terminal shrouds reduce the risk of touching live parts, improving safety and reliability of the instalation.

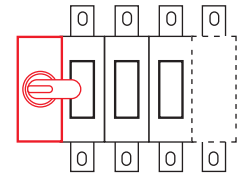
Incoming power feed
Disconnect switches can be used equally well with either top or bottom incoming power feed.



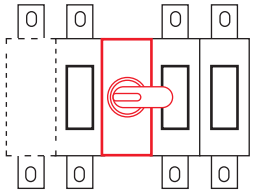




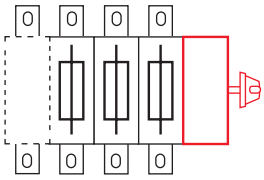
General information
Open style fusible & non fusible disconnect switches



At the end of the switch OT_03 or 04



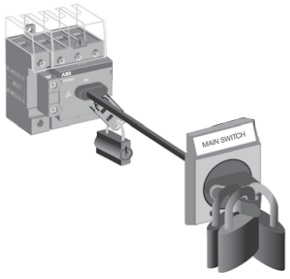
Between poles OT_12 or 22



Side operated types
OT_30 or 40
OT_03 or 04

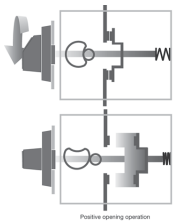
Modular construction
Different pole configurations make it easy to install the disconnect inside the enclosures as well as enhance the external operation through the pistol handles.

Door interlock
The handle and shaft provide a door interlock; the door cannot be opened when the switch is in the “ON” position. NOTE: Some handles provide a method for qualified personnel to circumvent the door interlock. This is commonly referred to as a “defeater” mechanism.



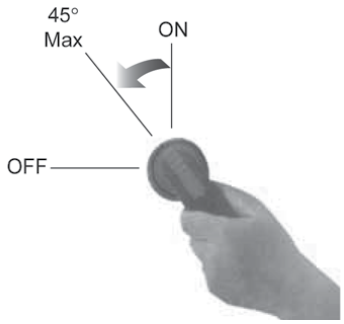
Handle and mechanism padlocked OFF

Padlockable
Handles can be padlocked in the “OFF” position with up to three padlocks. Additionally - with a direct mount handle - the switch mechanism can be directly padlocked in the “OFF” position when the door is open. NOTE: Some handles can be ordered with the ability to padlock in both the “ON” & “OFF” positions, please consult your ABB sales office.

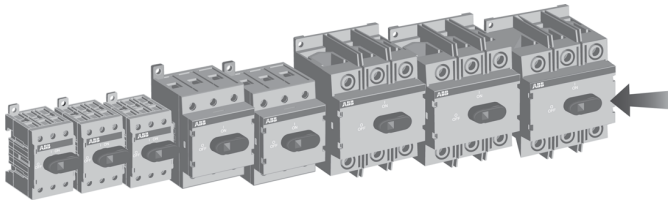


Positive opening operation
All switches operate according to the “positive opening operation” principle. This means the contacts are opened and closed by a driven mechanism, a solid moving bridge, not merely springs. This provides reliable position indication to the user; if the disconnect is in the “OFF” position, the contacts are open.

General information
Open style fusible & non fusible disconnect switches







Welded contact protection
Positive opening operation safeguards users in case of welded contacts caused by an overload or short circuit. The handle cannot reach the “OFF” position unless the contacts are truly open. If any or all of the contacts are welded shut, the disconnect mechanism will only allow the handle to operate a maximum of 45°. This safeguards personnel by:

- Alerting them a problem has occurred
- Maintaining the door interlock and
- Not allowing a padlock to be inserted

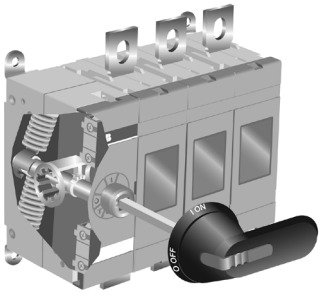
Clear position indication
All disconnects and handles have clear “ON” and “OFF” designations. Whether the door is open or closed, it is possible to simply look at the disconnect and determine if it is “ON” or “OFF”.

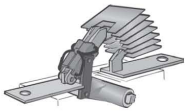
Visible blades
Visible blades offer additional safety for non-fusible switches, 200 - 2000 A

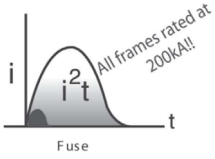
Track resistant material
Excellent track resistant material reduces the risk of flash-over between phases in even the most severe circumstances.

Constant control for non-fusible disconnect switches
The OT16 to OT100 provide the user with constant control over the power circuit. Whether the enclosure door is open or closed, qualified personnel have the ability to manually operate the disconnect. This is most meaningful when qualified personnel are working with the enclosure door open: In case of an emergency down-stream, the main three phase power can be disconnected immediately using the black, direct mounted handle.

General information
Open style fusible & non fusible disconnect switches



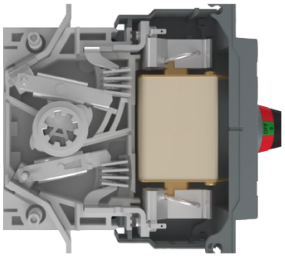




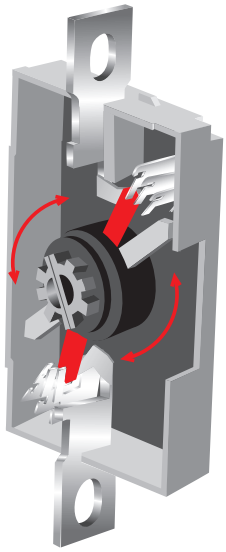
Fuse



Circuit breaker



Pole structure in OFF-position



High performance
The mechanism is quick-make/quick-break, meaning the contacts operate independently of the speed and force at which the handle is operated. This, in combination with unique, patented self-cleaning contacts, provides a long, reliable, electrical life.

Superior short circuit protection
Fuses efficiently limit the peak let-through current, i2t, during a fault better than any other product, contributing to safety and reliability. Selectivity and coordination are easily accomplished with fused protection. Fusible disconnect switches accept a wide range of fuses:

- Class CC 30A
- Class J 30 – 600 A
- Class L 800 – 1200 A

Fuse isolation
Fused switches have contacts on both sides of the fuse. The fuses are totally isolated in the “OFF” position, reducing the risk of electric shock to authorized personnel — even if the disconnect is being back fed.

General information
Enclosed non fusible & disconnect switches



eOT, NF, FC, FJ and FL products meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available in a wide range of amperage ratings:

- eOT from 16 to 100 A, CuLs approved
- NF from 16 to 1200 A, FC, FJ and FL from 30 to 1200 A, CSA approved.

General information
Enclosed non fusible & fusible disconnect switches

Fusible, non fusible & Lockable

Non-fusible
Snap on accessories include additional poles, auxiliary contacts, etc.
Enclosures available in plastic, metal, or stainless steel in NEMA 1, 12, 4 4X, environmental categories



Modern appearance
Quick make, quick brake mechanism
Extremely compact size Finger-proof construction.
No hazardous exposed parts
3/4/6/8 pole constructions; transfer switches and by-pass switches available

Fusible
Snap on accessories include fuse monitors, auxiliary contacts, etc.
Enclosures available in plastic, metal, or stainless steel in NEMA 1, 12, 4 4X, environmental categories



Modern appearance
Quick make, quick brake mechanism
Extreme compact size as fuse carriers are decked above contacts
Double contacts enabling feed from any direction and preventing back feed
Finger-proof construction.
No hazardous exposed parts
3/4/6/8 pole switches available

Lockable
Clear position indications:
I-ON O-OFF
Door interlocked when handle padlocked to OFF position
Handle padlockable with up to three padlocks



Door interlocked when handle is in ON position. Door interlock can be defeated by authorized personnel.
Pilot devices can be added

General information
Enclosed non fusible & fusible disconnect switches

SafeLine compact, heavy duty enclosed disconnect switches
16A - 1200A Non-fusible
30A - 1200A Fusible

SafeLine enclosed disconnect switches are designed to meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available in a wide range of ampere ratings, are CSA approved and EEMAC rated to satisfy rugged industrial environments.

NF 16 1 - 3P 11

Disconnect switch type
NF = Non-fusible
FJ = Fused Class J, (30A – 600A)
FL = Fused Class L, (800A)

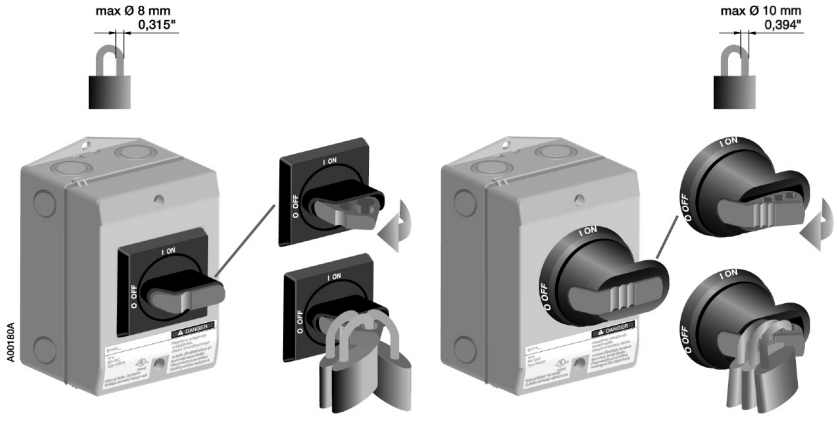
Disconnect switch frame size

16	32	45	63
30	60	100	200
400	600	800	1200

Environmental rating
1 = Type 1
2 = Type 12
4 = Type 4
3 = Type 3R
X = Type 4X stainless steel

Poles or conversion mechanisms
2P = 2 poles pistol handle
3P = 3 poles pistol handle
4P = 4 poles pistol handle
6P = 6 poles pistol handle
3S = 3 pole selector handle
3T = 3 pole transfer

Accessories
10 = 1 N.O. auxiliary contact
01 = 1 N.C. auxiliary contact
11 = 1 N.O. & 1 N.C. auxiliary contacts
22 = 2 N.O. & 2 N.C. auxiliary contacts
N = Neutral terminal



Padlockable
Handles can be padlocked in the “OFF” position with up to three padlocks: Additionally, the switch mechanism can be directly padlocked in the “OFF” position when the door is open. Note: Some handles can be ordered with the ability to padlock in both the “ON” & “OFF” positions, please consult your ABB sales office.

General information
Enclosed non fusible & fusible disconnect switches

EEMAC environmental ratings

Introduction

An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows.

Refer to EEMAC Standards Publication for more information regarding applications, features and design tests.
Individual EEMAC product Standards Publications or third party certification standards may contain additional requirements for product testing and performance.

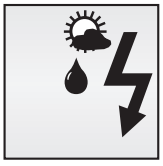
Definitions pertaining to nonhazardous locations



Type 1
Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt.



Type 4X
Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.



Type 3R
Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation.



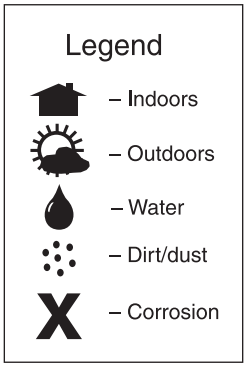
Type 12
Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids.



Type 4
Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.



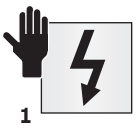
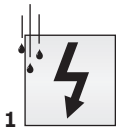
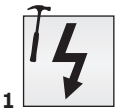
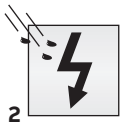
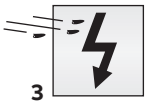
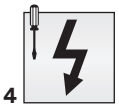
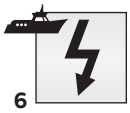
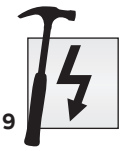
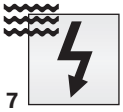
Type 13
Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.



General information
Enclosed non fusible & fusible disconnect switches

IP environmental ratings

IP ratings
indicate the degree of protection against dust, liquids and impacts. The IP degrees of protection are defined by the French standard NFC 20-010. To rate a device's degrees of protection, the letters IP are followed by up to three numbers.These numbers are defined as follows:

First number protection against solid objects	Second number protection against liquids	Third number protection against mechanical impacts
IP 0 no protection	IP 0 no protection	IP 0 no protection
 protected against solid objects over 50mm (e.g. accidental touch by hands.)	 protected against vertically falling rain or condensation	 impact 0.225 joule 150g falling from 15 cm
 protected against solid objects over 12 mm (e.g. fingers)	 protected against direct sprays of water up to 15° from vertical	 impact 0.375 joule 250g falling from15 cm
 protected against solid objects over 2.5 mm (tools & wires)	 protected against sprays to 60° from vertical	 impact 0.50 joule 250g falling from 20cm
 protected against solid objects over 1mm (small tools & small wires)	 protected against water sprayed from all directions	 impact 2.00 joule 500g falling from 40 cm
 protected against dust (no harmful deposit)	 protected against low pressure jets of water from all directions	 impact 6.00 joule 1.5kg falling from 40 cm
 totally protected against dust	 protected from strong jets of water (e.g. for use on ship decks)	 impact 20.00 joule 5 kg falling from 40 cm
	 protected against the effects of immersion between 15cm and 1m	

General information
Definitions

AC - Alternating current
Current that reverses its direction of flow twice per cycle.
Ambient tempature
Temperature of the air surrounding the unit.
Amp rating
The basic unit of measurement for electric current (columbs / seconds)
Conventional thermal current I_{th}
Value of the current the disconnect switch can withstand with poles in closed position, in free air for an eight hour duty, without the temperature rise of its various parts exceeding the limits specified by the standa ds.
Cycle duration
Total time of the on-load+off -load period.
DC - Direct current
Current that flows in only one direction.
Electrical endurance
Number of on-load operating cycles.
Full load amp current FLA
The current required by a motor to produce full-load torque at the motor's rated speed.
Inductive load
An electrical load characterized by having significant inrush (5 to 6 times FLA for typical design-B AC induction motors).
kW
Kilowatts (1000 watts).
Lockout/Tagout
Means of removing power from electrical equipment during inspection, service or repair.
Make/Break
ON/OFF
Mechanical endurance
Number of off-load operating cycles.
Poles in series
Means of connection poles using wires or bus bars to increase breaking capacity of load.
Power factor
The relationship between working power and total power consumed. Power factor measures how effectively electrical power is being used.
Rated insulation U_i
Voltage value which designates the unit and to which dielectric tests, clearance and creepage distances are referred.

Rated operating current I_e
Current value stated by the manufacturer and taking into account the rated operating voltage U_e, the rated frequency, the rated duty, the utilization category, the electrical contact life and the type of protective enclosure.

Rated operating voltage U_e
Voltage value to which utilization characteristics of the disconnect switch are referred, i.e. phase-to-phase voltage in 3 phase circuits.
Rated short circuit making capacity I_{cm}
The rated short-circuit making capacity of a disconnect switch is the value assigned to equipment at the rated operational volatge, frequency (if any) and specified power-factor for AC or time constant for DC. It is expressed as the maximum prospective peak current under prescribed conditions.
Rated short time withstand current I_{cw}
The rated short-time withstand current of a disconnect switch is the value that the equipment can carry without damage, under the test conditions specified in the relevant product standard. The value of the rated short-time withstand current shall be not less than twelve times the maximum rated operational current unless otherwise stated by manufacturer and the duration of the current shall be 1s.
Resistive load
An electrical load characterized by not having any significant inrush current.
Short circuit protection coordination
Co-ordination types “1” and “2” are defined in IEC 947-4-1
Type1 coordination: There has to be not discharge of parts beyond the enclosure. Damage to the contactor and the overload is acceptable.
Type2 coordination: No damage to the overload relay or other parts has occurred, except that welding of contactor or starter contacts is permitted, if they are easily separated.
Time constant
Ratio of inductance to the resistence: L/R=mH/Ohm=ms.
Torque
The force that produces rotation. It is commonly measured in pound-feet (ls-ft). Torque applies to such things as motor operations, handle rotations, wire tightening.
Volt
The unit of electrical potential difference and electromotive force.

General information
Selecting switches according to CEC and IEC

Selecting switches per CEC
Section 28 of the Canadian Electric Code includes two methods for properly sizing disconnect switches:

1.Single motor application
A properly sized disconnect switch for a single motor will:

- have an ampere rating greater than or equal to 115 percent of the rated motor full load current; or,
- have a HP rating greater than or equal to the rated motor HP (at applied voltage) if the disconnect switch under consideration is HP rated.

2.Combination load application
A properly sized disconnect switch for a combination load will be selected by adding all the simultaneous individual loads in the circuitunder consideration.
Using motor nameplate information, load information, and tables from section 28 of the CEC, determine one equivalent full load current and plus 15% of the largest motor determine an equivalent HP rating. Select a disconnect switch:

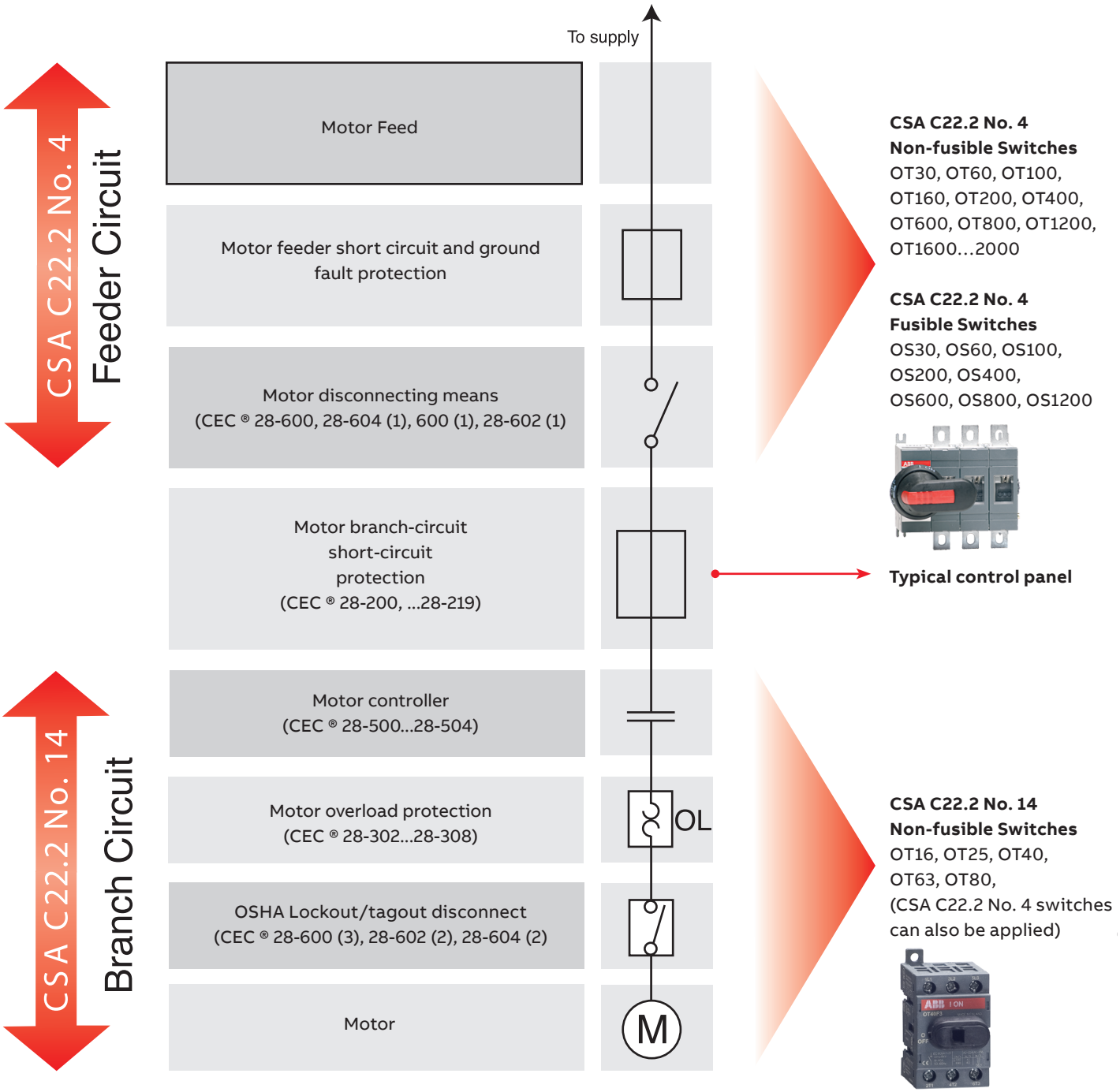
- greater than or equal to 115 percent of the equivalent full load current; and,
- greater than or equal to the equivalent HP rating.

Selecting switches per IEC
Utilization categories

Nature of current	**Utilization category**		**Typical applications**
	Frequent operation	**Infrequent operation**	
Alternating current	AC-20A	AC-20B	Connecting and disconnecting under no-load conditions
	AC-21A	AC-21B	Switching of resistive loads including moderate overloads (PF > 0.95)
	AC-22A	AC-22B	Switching of mixed resistive and inductive loads, including moderate overloads (PF > 0.65)
	AC-23A	AC-23B	Switching of motor loads or other highly inductive loads (PF > 0.45 below 100A; PF > 0.35 above 100A)
Direct current	DC-20A	DC-20B	Connecting and disconnecting under no-load conditions
	DC-21A	DC-21B	Switching of resistive loads including moderate overloads (L/R < 1ms)
	DC-22A	DC-22B	Switching of mixed resistive and inductive loads, including moderate overloads e.g., shunt motors (L/R < 2.5ms)
	DC-23A	DC-23B	Switching of highly inductive loads e.g., series motors (L/R < 15ms)
Mechanical endurance	**Number of operations**	**Number of operations**	
100A	10,000	2000	
315A	8000	1600	
<315A	2000	400	

Category AC-23 includes occasional switching of individual motors. The switching of capacitors of tungsten filament lamps shall be subject to agreement between manufacturer and user.

General information
CSA C22.2 No.4 & No. 14 disconnects according to CEC section 28





Open style non fusible disconnect switches

Open style, non fusible switch disconnectors:
ABB disconnect switch applications 2/4
General Information, selection guide, OT16-100 2/5
General Information, selection guide, OT200-2000 2/6
Manual disconnect switches, Type designation key OT16-160 2/7
Manual disconnect switches, Type designation key OT160-2000 2/8
Selection Information, standard part number designation 2/9

Ordering information:
Manual disconnect switches OT16-160 2/10
Manual disconnect switches OT200-2000 2/13
Manual disconnect switches OT16-100, UL 2/15
Manual disconnect switches OT160, IEC/UL 2/17
Manual disconnect switches OT200-2000, UL 2/18
Special configurations, cable operated flange, 30-1200A 2/20
Special configurations, accessories for flange operated disconnects, 30-1200A 2/21
Manual change-over switch, OT16…OT100_C 2/22
Manual change-over switch, OT200…OT800U_C, OT1200U_C 2/23
Manual change-over switch, OT16…OT100F_C 2/24
Manual change-over switch, OT30…100F_C, OT200…800U_C, OT1200U_C 2/25

Technical data:
Manual disconnect switches OT16….100, UL 2/26
Manual disconnect switches OT160, IEC, UL 2/28
Manual disconnect switches OT200…1200, UL 2/29
Manual disconnect switches OT1600…2000, UL 2/31

Non fusible disconnect switches, open style

16-2000 A, 600 VAC
16-32 A, 600 VDC
100-1000 A, 1000 VDC, 1500 VDC

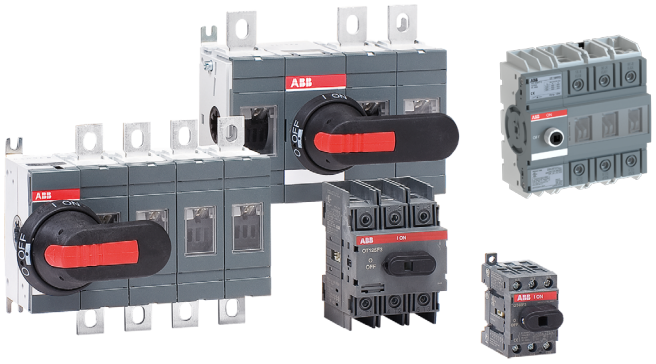


ABB disconnect switch family includes several different amperage sizes from 16 to 2000A. The basic construction provides flexibility, safety, and high performance in an extremely compact size. ABB SwitchLine is a perfect choice for all switching applications from industrial motor control to construction safety switches.

Reliable in extreme conditions

Tried and tested
ABB disconnect switches are designed, built and tested for the best possible performance. They are designed to be virtually maintenance-free across their entire extended lifespan and offer reliable performance in any and all possible circumstances. Durability has been ensured by testing switches against the IEC60947-3, UL508, UL98 and CSA standards.

Space saving

Modular design
All our switches have been designed for easy and cost-efficient installation, maintenance and use. Their modular design and smaller dimensions enable installation into even the smallest enclosures saving precious space and significantly reducing material, handling and installation costs.
The simple design also makes use easy, even without previous experience or training.

Safety and protection

Numerous safety features
ABB disconnect switches come equipped with a comprehensive range of inbuilt safety features. All motorized switches (IEC only) can also be operated manually in emergency situations, but can also be padlocked when the handle is removed to prevent unwanted manual or remote operations or enable safe maintenance work.

ABB disconnect switches are suited for a wide variety of demanding applications.

We offer a market-leading product portfolio of disconnect switches ranging from 16 to 2000 Amperes. Thanks to their modular structure, our switches can serve manual applications.

Typical disconnect switch applications:



Switching of mixed loads for basically any application:
- Control panels
- Low-voltage switchgears
- Low-voltage substations



Motor disconnecting in various applications:
- Machine builders
- Motor control centers
- HVAC, pumps and conveyors



Heavy industries:
- Pulp & Paper
- Food & Beverage
- Refining & petrochemicals



Power generation and renewables:
- Wind turbines
- Solar plants
- Generating sets
- Power plants

General information
Selection guide, OT16 - 100



OT16F3 OT25F3 OT40F3



OT63F3 OT80F3



OT30F3 OT60F3 OT100F3



OT160G03

Catalog number	3pole	OT16F3	OT25F3	OT40F3	OT63F3	OT80F3	OT30F3	OT60F3	OT100F3	OT160G03
General purpose amp rating	**A**	**20**	**30**	**40**	**60**	**80**	**30**	**60**	**100**	**100**
Approvals [1]										
	2 pole	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3 pole	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98
	4 pole	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98
Technical ratings - UL,CSA [2]										
Max operating voltage	V	600	600	600	600	600	600	600	600	600
Max horsepower rating										
Three phase										
240V	HP	5	7.5	10	15	20	10	20	30	40
480V	HP	10	15	20	30	40	20	40	50	75
600V	HP	10	20	25	30	40	30	40	50	100
Single phase										
120V	HP	1	1.5	2	2	2	2	3	5	20
240V	HP	2	3	5	7.5	10	5	7.5	15	30
240Vdc										30
Technical ratings - IEC [2]										
Rated insulation and operational voltage. AC20 and DC20	V	750	750	750	750	750	750	750	750	1000
Rated thermal current, I										
AC 20/DC 20 open	A	25	32	40	63	80	40	63	115	160
AC 20/DC 20 enclosed	A	25	32	40	63	80	40	63	115	160
AC 21 A ≤500V	A	16	25	40	63	80	40	63	100	160
≤690V	A	16	25	40	63	80	40	63	100	160
Rated operational power AC23										
400V/415V	kW	7.5	9	11	22	37	15	18.5	37	75
690V	kW	7.5	9	11	15	18.5	15	15	37	132
Physical characteristics										
Weight [3] 3 pole	kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36	0.2268
Dimension 3 pole	H mm	68	68	68	91	91	100	100	100	130
	W mm	35	35	35	53	53	70	70	70	123
	D mm	56	56	56	72	72	75	75	75	73
Accessories										
Terminal lug kit		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Terminal shroud		•	•	•	•	•	•	•	•	•
Auxillary contact		•	•	•	•	•	•	•	•	•
Shaft/handle diameter		6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"
Handle UL/NEMA type										
Type 1, 3R, 12		•	•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•	•
Handle type										
Selector		•	•	•	•	•	•	•	•	—
Pistol		•	•	•	•	•	•	•	•	•
Recommended pistol handle length		45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	65-90mm
Maximum recommended shaft length		290mm	290mm	290mm	290mm	290mm	290mm	290mm	290mm	290
Conversion kits										
6 pole		•	•	•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•	•	•
Bypass		•	•	•	•	•	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	—	—	—	—	—	—

1) cULus Listed, UL508 CSA C22.2 No.14 File No E63822, UL98 CSA C22.2 No.4 File No E101914
2) For complete technical information please see pages 2/26 - 2/31
3) Disconnect only

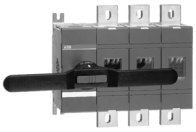
General information

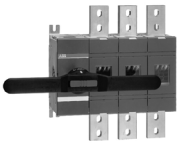
Selection guide, OT200 - 2000

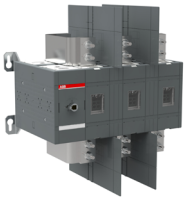

OT200U03


OT400U03


OT600U03


OT800U03


OT1200U03


OT1600U03

Catalog number	3pole		OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OT1600U03	OT2000U03
General purpose amp rating		**A**	**200**	**400**	**600**	**800**	**1200**	**1600**	**2000**
Approvals [1]									
	2 pole		cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98
	3 pole		cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98
	4 pole		cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98	cULus Listed UL98
Technical ratings - UL,CSA [2]									
Max operating voltage		V	600	600	600	600	600	600	600
Max horsepower rating									
Three phase									
240V		HP	75	125	200	200	—	—	—
480V		HP	150	250	450	500	—	—	—
600V		HP	200	350	500	500	—	—	—
Single phase									
120V		HP	—	—	—	—	—	—	—
240V		HP	—	—	—	—	—	—	—
Technical ratings - IEC [2]									
Rated insulation and operational									
voltage. AC20 and DC20		V	1000	1000	1000	1000	1000	—	—
Rated thermal current, I									
AC 20/DC 20	open	A	250	400	800	1250	1600	—	—
AC 20/DC 20	enclosed	A	250	400	800	1250	1600	—	—
AC 21 A	≤500V	A	250	250	800	1250	1600	—	—
	≤690V	A	250	400	800	1250	1600	—	—
Rated operational power AC23									
	400V/415V	kW	140	220	450	710	710	—	—
	690V	kW	250	400	800	1200	1200	—	—
Physical characteristics [3]									
Weight	3 pole	kg	1.2	2.2	5.2	15.2	15.2	49	49
Dimension	3 pole	H mm	508	600	600	1220	700	546	546
		W mm	407	350	700	610	900	490	490
		D mm	178	200	300	305	400	335	335
Accessories									
Terminal lug kit			OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	OZXA-1200	OZXA-1200
Terminal shroud			•	•	•	•	•	—	—
Auxillary contact			•	•	•	•	•	•	•
Shaft/handle diameter			6mm .24" x .24"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"
Handle UL/NEMA type									
Type 1, 3R, 12			•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12			•	•	•	•	•	•	•
Handle type									
Selector			—	—	—	—	—	—	—
Pistol			•	•	•	•	•	•	•
Recommended pistol handle length			68 - 80mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm
Maximum recommended shaft length			290mm	595mm	595mm	595mm	595mm	595mm	595mm
Conversion kits									
6 pole			•	•	•	—	—	—	—
Transfer			•	•	•	—	—	—	—
Bypass			•	•	•	—	—	—	—
Mechanical interlock			•	•	•	•	•	•	•
Electrical interlock			•	•	•	•	•	•	•

1) cULus Listed, UL508 CSA C22.2 No.14 File No E63822, UL98 CSA C22.2 No.4 File No E101914
2) For complete technical information please see pages 2/26 - 2/31
3) Disconnect only

Manual disconnect switches OT16...160
Type designation key

Type codes
Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

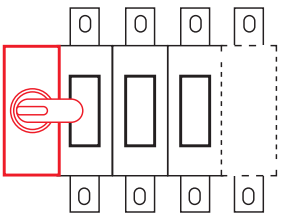
Explanation of the types OT16..160

OT	16	F	4	N2
1	2	3	4	5

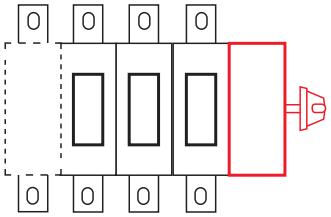
1	**Brand**
OT:	ABB disconnect switch brand
2	**Switch size**
16...160:	16...160
3	**Mounting / Construction**
F:	Base and DIN-rail mounting, front operated
FT:	Door mounting, front operated
G:	Base and DIN-rail mounting, front and side operated
GT:	Door mounting, front and side operated
FL:	Base and DIN-rail mounting, extended terminals on both sides of the switch, front operated, IEC only
FLA:	Base and DIN-rail mounting, extended terminals on top side only, front operated, IEC only
FLB:	Base and DIN-rail mounting, extended terminals on bottom side only, front operated, IEC only
M, ML:	Installation switches for 45 mm standard opening, base and DIN -rail mounting, front operated, IEC only
4	**Number of poles** [1]
3	3 poles
4	4 poles
6	6 poles
8	8 poles
03	3 poles, operating mechanism at the left end of the switch
04	4 poles, operating mechanism at the left end of the switch
30	3 poles, operating mechanism at the right end of the switch
40	4 poles, operating mechanism at the right end of the switch
5	**Included accessories**
N2:	Fourth pole, simultaneous function with the main contacts
_(blank):	no accessories included
P:	Pistol handle + shaft
K:	Direct mount handle (for base mounting versions only)

Pole configuration table, OT160G

Front operated
Configuration 03, 04:



Side operated
Configuration 30, 40 or 03, 04:



1) Some switches are not available in all configurations. Please consult ABB sales office for additional information.

Manual disconnect switches OT160...2000
Type designation key

Type codes
Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

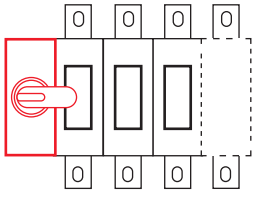
Explanation of the types OT160..2000

OT	400	U	03	—	P
1	2	3	4	5	6

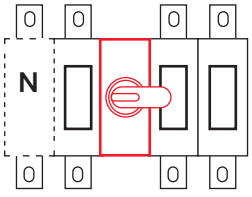
1	**Brand**
OT:	ABB disconnect switch brand
2	**Switch size / Ampere rating**
160...2000:	160 A...2000 A
3	**Mounting / Construction**
U:	Front operated, base mounting, UL/CSA
4	**Number of poles and placing of the operating mechanism[1)]**
03:	3-poles, operating mechanism at the left end of the switch
04:	4-poles, operating mechanism at the left end of the switch
12:	3-poles, operating mechanism between the poles
22:	4-poles, operating mechanism between the poles
30:	3-poles, operating mechanism at the right end of the switch
40:	4-poles, operating mechanism at the right end of the switch
5	**Construction 1**
6	**Construction 2**
P:	External handle and shaft included

Pole configuration table
The various placing options of the operating mechanism in relation to the 3 or 4 poles is illustrated below. The operating mechanism may be placed at the end of the switch or between poles.

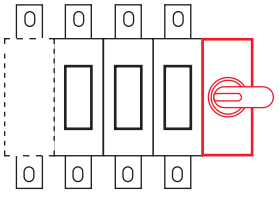
Front operated
Configuration 03, 04:



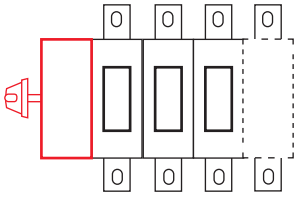
Front operated
Configuration 12, 22:



Front operated
Configuration 30, 40:



Side operated
Configuration 03, 04:



1) Some switches are not available in all configuraitons. Please consult ABB sales office for additional information.

Selection information

Standard part number designation

Non-Fusible OT Switches (16 to 100A)

OT 16 F 3 C

Amperage

16 = 20 amps* 25 = 30 amps* 30 = 30 amps 40 = 40 amps* 63 = 60 amps* 60 = 60 amps
80 = 80 amps* 100 = 100 amps 160 = 100 amps cULus 98 listed (125 amps UL98 Recognized)

Number of Poles

3 = 3 poles 4 = 4 poles 6 = 6 poles

Special Configuration

Blank = Non-fusible disconnect switch
C = Double throw switch

*cULus 508 listed switches. OT30_, OT60_ and OT100_ are cULus 98 listed

Non-Fusible OT Switches (200A and above)

OT 200 U 03 C

Amperage

200 = 200 amps* 400 = 400 amps* 600 = 600 amps* 800 = 800 amps* 1200 = 1200 amps*

Number of Poles

02 = 2 poles to right of mechanism
03 = 3 poles to right of mechanism
04 = 4 poles to right of mechanism
12 = 1 pole to left, 2 poles to right
30 = 3 poles to left of mechanism

Special Configuration

Blank = Non-fusible disconnect switch
C = Double throw switch**

*All OT200U_, OT400U_, OT600U_, _OT800U_ and OT1200U_ switches are cULus 98 listed
**OT1200U_C is not UL approved product. It is cURus recognized product for 940A @600Vac.

Selector Handles

OHB S 1 P H

Handle Color

B = black Y = Red/Yellow

Physical Size

Connection to disconnect

A = external shaft P = snap on R = screw

Protection Class

H = Nema 1 J = Nema 1, 3R, 12

Pistol Handles

O H B 65 J 6 E011

Handle Color

B = black Y = Red/Yellow

Handle Lenght

65 = 65mm 80 = 80mm 125 = 125mm 145 = 145mm 274 = 274mm 330 = 330mm

Environmental Rating

J = 1, 3R, 12 L = 1, 3R, 12, 4, 4X

Shaft Diameter

6 = 6mm

Special Configuration

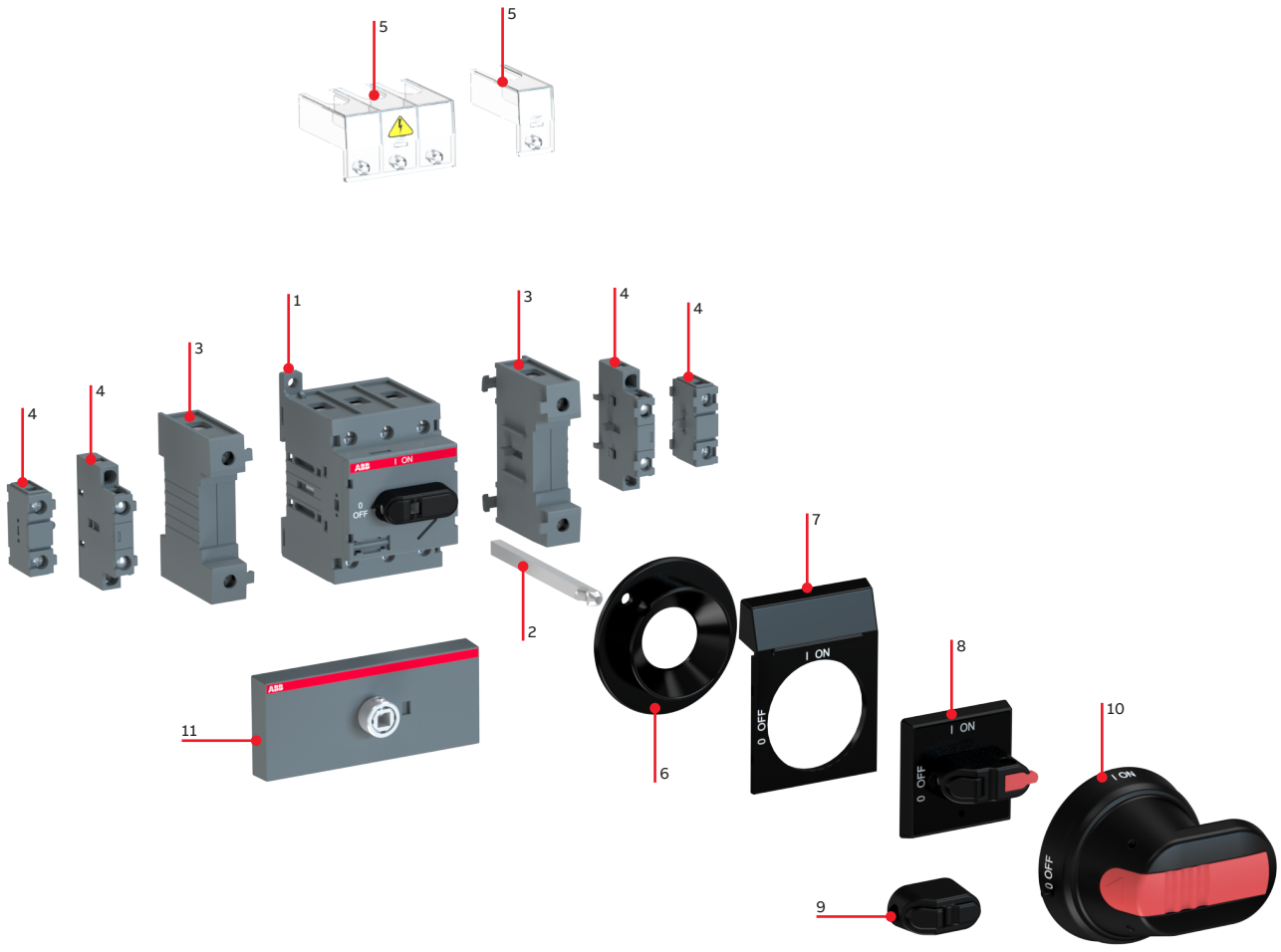
Blank = for disconnect switches, fusible and non-fusible EH = Stainless steel hasp
E011 = 3 pos. double throw handle, padlockable (3 padlocks in 0-position) E20 = Padlockable in all positions OFF and ON
E311 = 3 pos. double throw handle, padlockable (3 padlocks in all positions)

Manual disconnect switches OT16...160
Ordering information

[1)]Accessory guide for OT16F...100F
(base and DIN-rail mounted disconnect switches)

1. Disconnect switch
2. Extended shaft
3. Fourth pole, N- and PE-terminals
4. Auxiliary contact
5. Terminal shroud
6. Shaft aligment ring
7. Legend plate
8. Selector handle
9. Handle knob
10. Pistol handle
11. Conversion kit

Please note that listed accessories are not automatically included in your order.



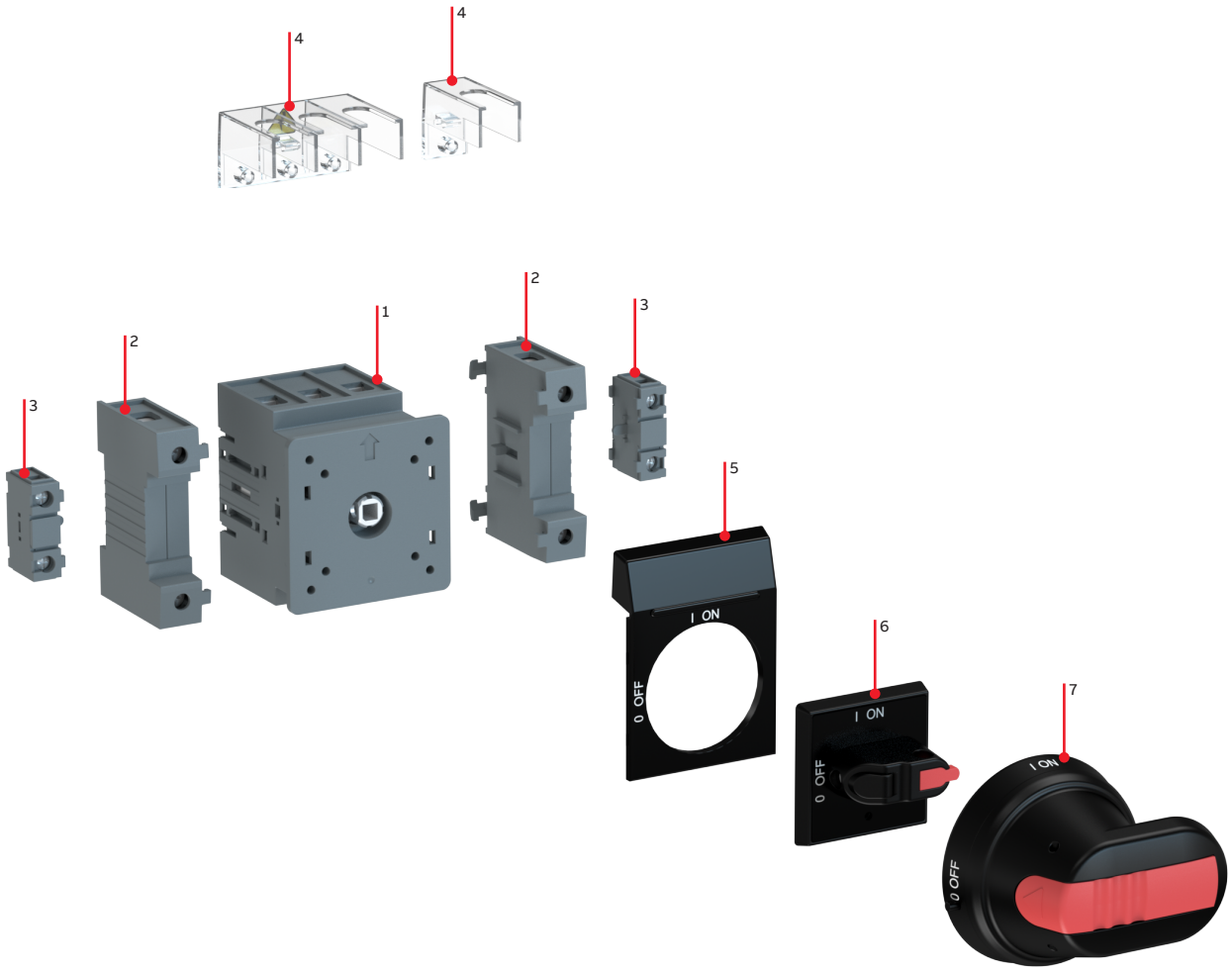
1) Lugs are integral in OT16F...OT160G switches.

Manual disconnect switches OT16...160
Ordering information

[1] Accessory guide for OT16FT...100FT (door mounted disconnect switches)

1. Disconnect switch
2. Fourth pole, N- and PE-terminals
3. Auxiliary contact
4. Terminal shroud
5. Legend plate
6. Selector handle
7. Pistol handle

Please note that listed accessories are not automatically included in your order.



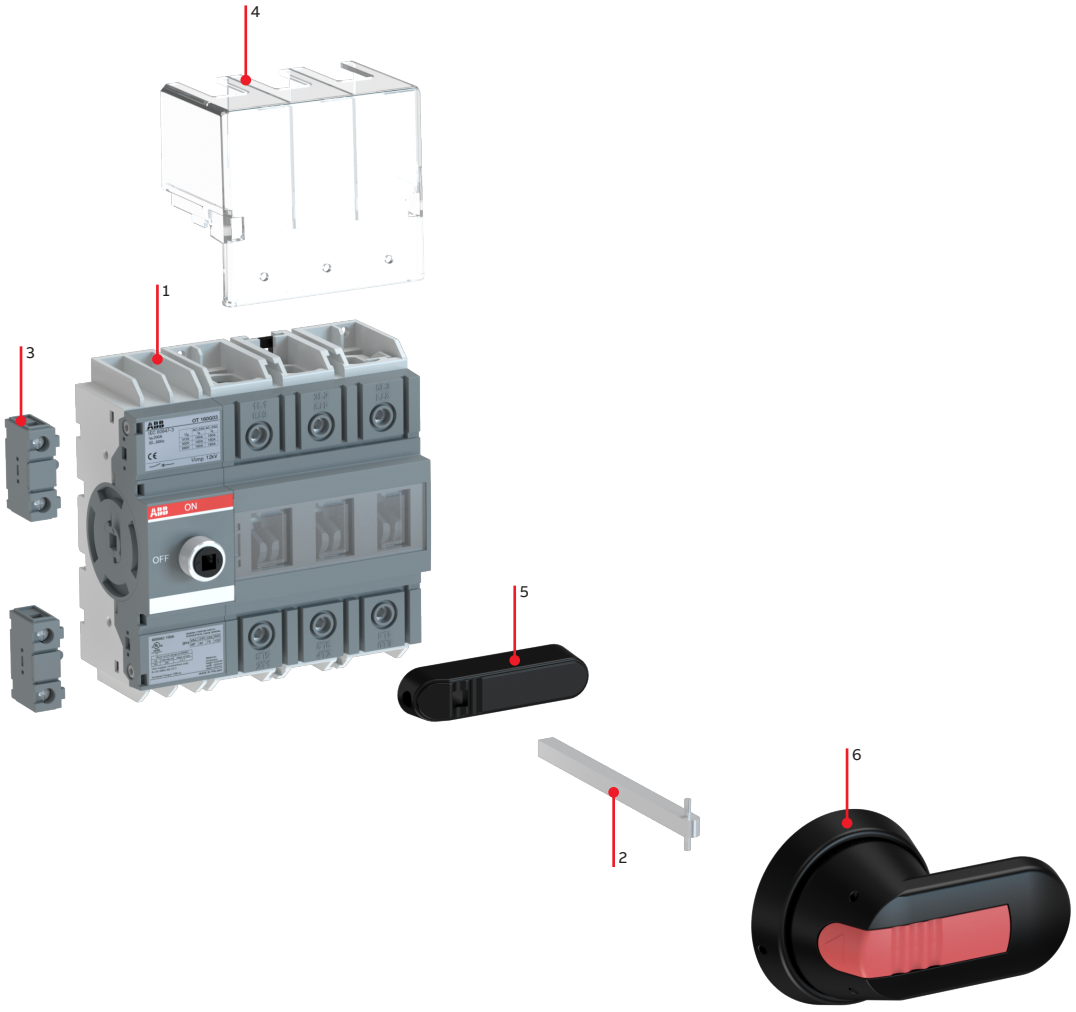
1) Lugs are integral in OT16FT...OT160GT switches.

Manual disconnect switches OT16...160
Ordering information

[1] Accessory guide for OT160G
(band dand DIN-rail mounted disconnect switches)

1. Disconnect switch
2. Extented shaft
3. Auxiliary contact
4. Terminal shroud
5. Handle knob
6. Pistol handle

Please note that listed accessories are not automatically included in your order.



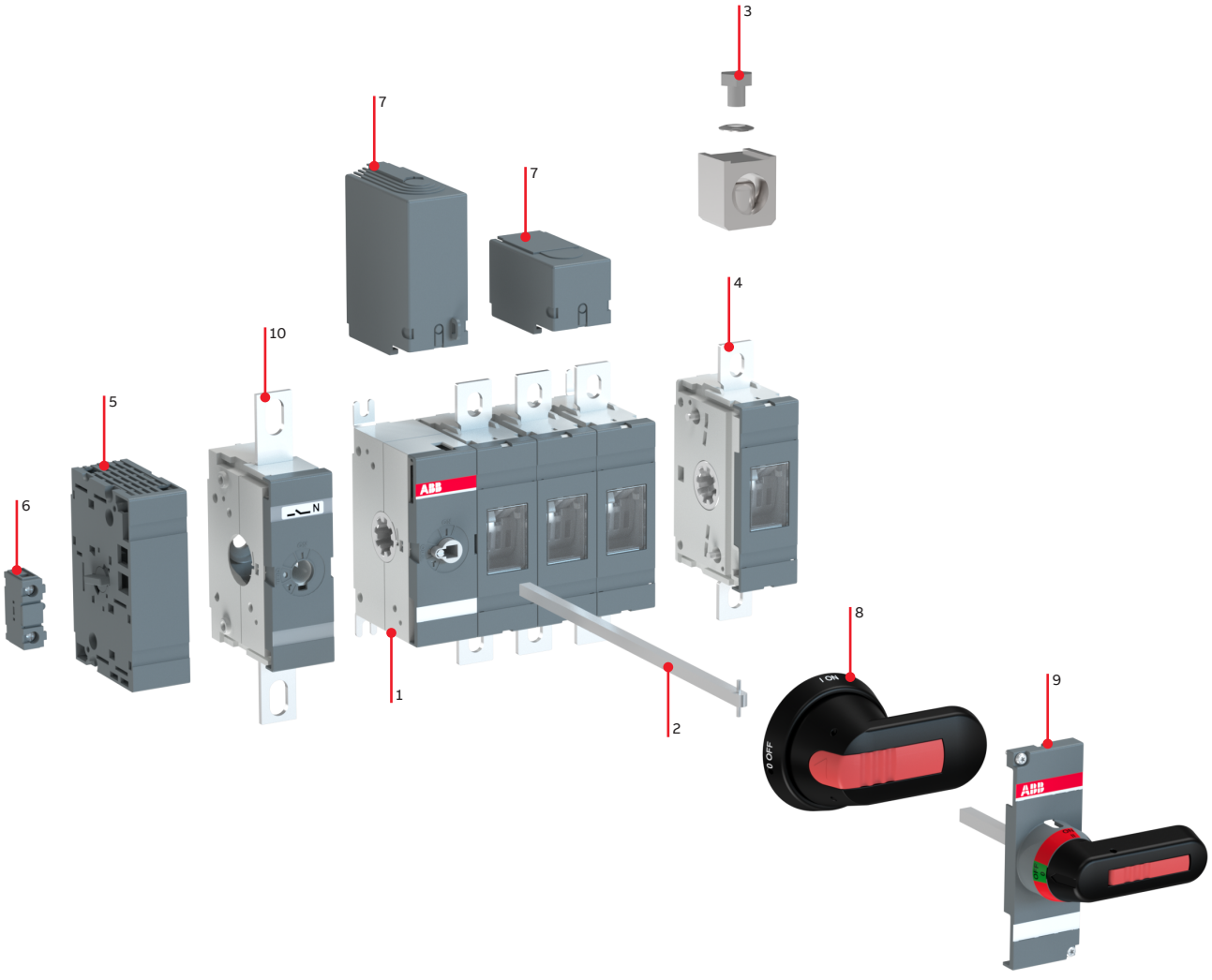
1) Lugs are integral in OT160G switches.

Manual disconnect switches OT200...2000
Ordering information

Accessory guide for OT200...1600

1. Disconnect switch
2. Extented shaft
3. Lugs
4. Fourth pole
5. Module for auxiliary contact
6. Auxiliary contact
7. Terminal shroud [1)]
8. Pistol handle
9. Direct mounting handle
10. Detachable neutral link

Please note that listed accessories are not automatically included in your order.



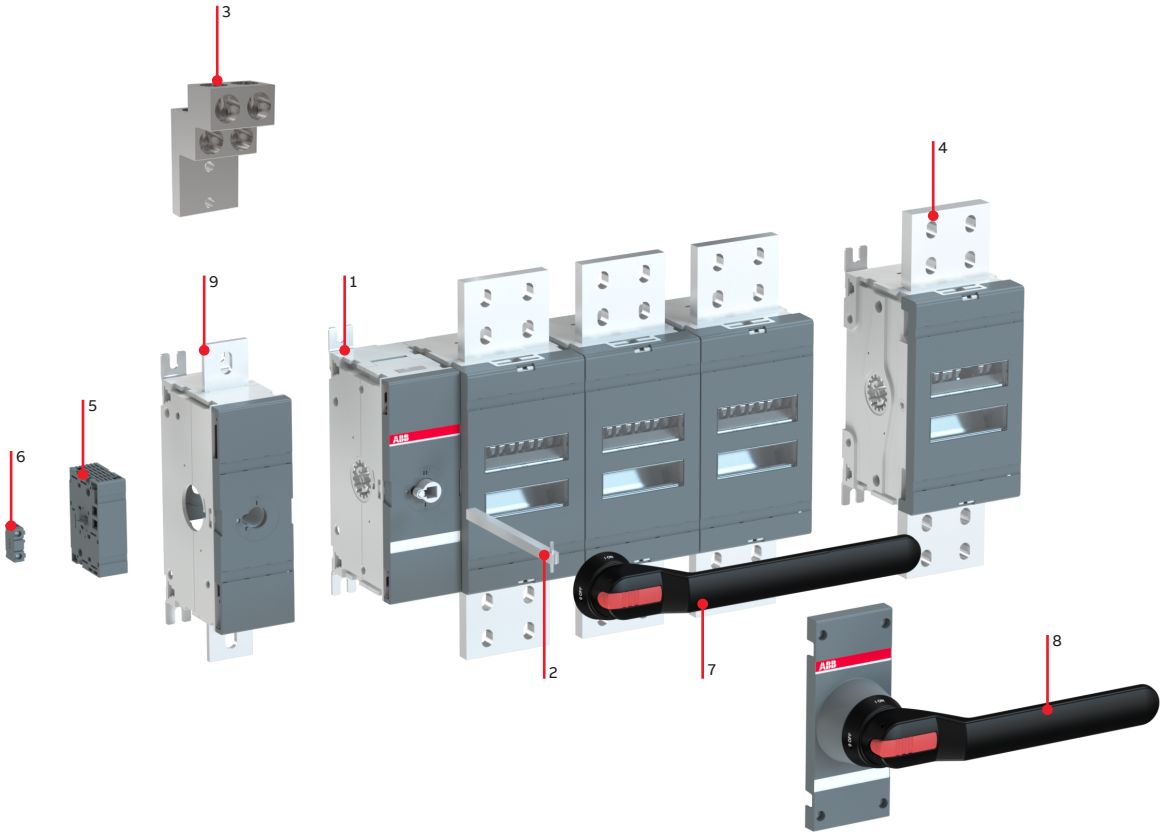
1) Terminal shrouds are not available for OT1600U_ and OT2000U_

Manual disconnect switches OT200...2000
Ordering information

Accessory guide for OT2000

1. Disconnect switch
2. Extented shaft
3. Lugs
4. Fourth pole
5. Module for auxiliary contact
6. Auxiliary contact
7. Pistol handle
8. Direct mounting handle
9. Detachable neutral link

Please note that listed accessories are not automatically included in your order.



Terminal shrouds are not available for OT1600U_ and OT2000U_

Manual disconnect switches OT16...100, UL

Ordering information for non-fusible disconnect switches

For a complete assembly, please select one of each:
1 disconnect
1 handle
1 shaft
1 terminal lug kit
(Lug kits only necessary on switches 200A and above)



OT16...40F3



OT63...80F3



OT30...100F3



OT16...40F6



OT63...80F8



OT100F8

[1] Front operated non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

Handle and shaft are not included.

Number of poles	Ampere rating [A]	Horsepower rating 3-phase [HP] 240VAC	480VAC	600VAC	Type	Weight/unit [kg]	[lb]
3[2]	20	5	10	10	OT16F3	0.11	0.24
4	20	5	10	10	OT16F4N2[4]	0.14	0.31
3[2]	30	7,5	15	20	OT25F3	0.11	0.24
4	30	7,5	15	20	OT25F4N2[4]	0.14	0.31
3[2]	40	10	20	25	OT40F3	0.11	0.24
4	40	10	20	25	OT40F4N2[4]	0.14	0.31
3[2]	60	15	30	30	OT63F3	0.27	0.60
4	60	15	30	30	OT63F4N2[4]	0.3	0.66
3[2]	80	20	40	40	OT80F3	0.27	0.60
4	80	20	40	40	OT80F4N2[4]	0.3	0.66
3[2]	30	10	20	30	OT30F3	0.36	0.79
4	30	10	20	30	OT30F4N2[4]	0.5	1.10
3[2]	60	20	40	40	OT60F3	0.36	0.79
4	60	20	40	40	OT60F4N2[4]	0.5	1.10
3[2]	100	30	50	50	OT100F3	0.36	0.79
4	100	30	50	50	OT100F4N2[4]	0.5	1.10

Approvals:
- OT16,25,40,63,80: UL 508. CSA 22-2 No.14
- OT30,60,100: UL 98. CSA 22-2 No.4
- IEC 60947-3

[3] Front operated 6- and 8-pole non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA

Handle and shaft are not included.

Number of poles	Ampere rating [A]	Horsepower rating 3-phase [HP] 240VAC	480VAC	600VAC	Type	Weight/unit [kg]	[lb]
6	20	5	10	10	OT16F6	0.25	0.55
6	30	7,5	15	20	OT25F6	0.25	0.55
6	40	10	20	25	OT40F6	0.25	0.55
6	60	15	30	30	OT63F6	0.61	1.35
6	80	20	40	40	OT80F6	0.61	1.35
6	100	30	50	50	OT100F6	0.81	1.79
8	20	5	10	10	OT16F8	0.31	0.68
8	30	7,5	15	20	OT25F8	0.31	0.68
8	40	10	20	25	OT40F8	0.31	0.68
8	60	15	30	30	OT63F8	0.67	1.48
8	80	20	40	40	OT80F8	0.67	1.48
8	100	30	50	50	OT100F8	1.10	2.43

Recommended shafts and handles.

Base mounted types with S or P at the end include following external handle and shaft.

Suitable for switches	Shaft	Handle	LUGS
OT16F...OT100F_S	OXS6X180	OHBS2AJ	Integral
OT16F...OT100F_P	OXP6X170	OHB45J6	Integral

1) Above 200A, base mount with screws only.
2) A snap on fourth pole may be added on 16-100A switches. See page 7/15
3) For a 6 or 8 pole switch 200-600A, a conversion mechanism accessory kit can be used with two 3 or 4 pole switches.
4) Please order OT_F3 base mounted switch plus forth pole. See page 7/15

Manual disconnect switches OT16...100, UL

Ordering information for non-fusible disconnect switches

For a complete assembly,
please select one of each: [2)]
1 disconnect
1 handle



OT16...40FT3



OT63...80FT3



OT30...100FT3



OT30...100FT4N2

Front operated non-fusible disconnect switches, door mounting[1)], UL/CSA

Handle and shaft not included.

Number of poles	Ampere rating [A]	Horsepower rating 3-phase [HP] 240VAC	480VAC	600VAC	Type	Weight/unit [kg]	[lb]
3	20	5	10	10	OT16FT3	0.13	0.29
4	20	5	10	10	OT16FT4N2 [3)]	0.16	0.35
3	30	7.5	15	20	OT25FT3	0.13	0.29
4	30	7.5	15	20	OT25FT4N2 [3)]	0.16	0.35
3	40	10	20	25	OT40FT3	0.13	0.29
4	40	10	20	25	OT40FT4N2 [3)]	0.16	0.35
3	60	15	30	30	OT63FT3	0.28	0.62
4	60	15	30	30	OT63FT4N2 [3)]	0.35	0.77
3	80	20	40	40	OT80FT3	0.28	0.62
4	80	20	40	40	OT80FT4N2 [3)]	0.35	0.77
3	30	20	40	40	OT30FT3	0.44	0.97
4	30	20	40	40	OT30FT4N2 [3)]	0.56	1.23
3	60	20	40	40	OT60FT3	0.44	0.97
4	60	20	40	40	OT60FT4N2 [3)]	0.56	1.23
3	100	30	50	50	OT100FT3	0.44	0.97
4	100	30	50	50	OT100FT4N2 [3)]	0.56	1.23

Approvals:
- OT16,25,40,63,80: UL 508. CSA 22-2 No.14
- OT30,60,100: UL 98. CSA 22-2 No.4
- IEC 60947-3

Recommended shafts and handles.

Base mounted types with S or P at the end include following external handle and adapter.

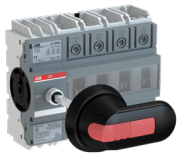
Suitable for switches	Shaft	Handle	LUGS
OT16FT_, OT25FT_, OT40FT_S	No shaft required	OHBS2PJ	Integral
OT63FT_, OT80FT_S	No shaft required	OHBS2RJ	Integral
OT30FT_, OT60FT_, OT100FT_P	Include OHZX6 adapter[4)]	OHB65J6	Integral

1) Door mounted switches do not provide door interlock
2) Door mounted switches do not require shafts
3) Please order OT_FT3 door mounting switch plus forth pole, See page 7/15
4) OHZX6 mounting kit includes OXP6X50 shaft which can not be ordered separately. Please order OXP6X57 if OXP6X50 shaft is required.

Manual disconnect switches OT160, IEC/UL
Ordering information



OT160G03K



OT160G04P



OT160GT03P



OT160GT04

OT160G [1) 2)] disconnect switches, base and DIN-rail mounting, IEC
Non-fusible disconnect switches, base and DIN-rail mounting, UL/CSA
The types with K at the end include direct mount handle YAST1. Lugs are integral.
The base mounted types with P at the end include external handle OHB65J6 and shaft OXP6X210. Front and side operation is possible with the same handle and shaft.

	Rated operational currents [A]				Weight/unit	
Number of poles	UL98 Listed, 600 V	UL 98 Recognized, 600 V	AC22A/ AC23A, 690 V	Type code	[kg]	[lb]
3	100	125	160/160	OT160G03	1.1	2.43
3	100	125	160/160	OT160G03K	1.2	2.65
3	100	125	160/160	OT160G03P	1.3	2.87
4	100	125	160/160	OT160G04	1.3	2.87
4	100	125	160/160	OT160G04K	1.4	3.09
4	100	125	160/160	OT160G04P	1.4	3.09
3	100	125	160/160	OT160G30	1.1	2.43
3	100	125	160/160	OT160G30K	1.2	2.65
3	100	125	160/160	OT160G30P	1.2	2.65
4	100	125	160/160	OT160G40	1.3	2.87
4	100	125	160/160	OT160G40K	1.4	3.09
4	100	125	160/160	OT160G40P	1.4	3.09

Approvals:
- UL98, CSA 22-2 No.4
- IEC 60947-3

OT160GT disconnect switches, door mounting, IEC
Non-fusible disconnect switches, door mounting, UL/CSA
The door mounted types with P at the end include external handle OHB65J6, shaft OXP6X50 and mounting kit OHZX6[3)]. Front and side operation is possible with the same handle and shaft.

	Rated operational currents [A]				Weight/unit	
Number of poles	UL98 Listed, 600 V	UL 98 Recognized, 600 V	AC22A/ AC23A, 690 V	Type code	[kg]	[lb]
Door mounted versions						
3	100	125	160/160	OT160GT03	1.2	2.65
3	100	125	160/160	OT160GT03P	1.2	2.65
4	100	125	160/160	OT160GT04	1.3	2.87
4	100	125	160/160	OT160GT04P	1.3	2.87
3	100	125	160/160	OT160GT30	1.2	2.65
3	100	125	160/160	OT160GT30P	1.2	2.65
4	100	125	160/160	OT160GT40	1.3	2.87
4	100	125	160/160	OT160GT40P	1.3	2.87

Approvals:
- UL98, CSA 22-2 No.4
- IEC 60947-3

1) OT160G_ = 100 amps cULus 98 listed
125 amps UL98 Recognized
2) OT160G is not available in 2 pole.
3) OHZX6 mounting kit includes OXP6X50 shaft which can not be ordered separately.
Please order OXP6X57 if OXP6X50 shaft is required.

Manual disconnect switches OT200...2000, UL
Ordering information

For a complete assembly, please select one of each:
1 disconnect
1 handle
1 shaft
1 terminal lug kit
(Lug kits only necessary on switches 200A and above)



OT200U03P



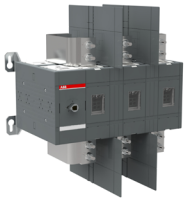
OT400U03P



OT600U04P



OT800...1200U03P



OT1600...2000U03



OT1600...2000U04

Front operated non-fusible disconnect switches, base mounting, UL/CSA
Handle, lugs and shaft need to be ordered separately. Terminal bolts are included.

Number of poles	Ampere rating, 600 VAC [A]	Horsepower rating 3-phase [HP] 240VAC	480VAC	600VAC	Type	Weight/unit [kg]	[lb]
Handle (NEMA 1, 3R, 12, IP65) and shaft have to be ordered separately							
3	200	75	150	200	OT200U03	1.6	3.5
4	200	75	150	200	OT200U04	2.0	4.4
3	200	75	150	200	OT200U12	1.6	3.5
4	200	75	150	200	OT200U22	2.0	4.4
3	400	125	250	350	OT400U03	3.0	6.6
4	400	125	250	350	OT400U04	3.6	7.9
3	400	125	250	350	OT400U12	3.0	6.6
4	400	125	250	350	OT400U22	3.6	7.9
3	600	200	450	500	OT600U03	6.2	13.7
4	600	200	450	500	OT600U04	7.5	16.5
3	600	200	450	500	OT600U12	6.2	13.7
4	600	200	450	500	OT600U22	7.5	16.5
3	800	250	500	500	OT800U03	18	39.7
4	800	250	500	500	OT800U04	21	46.3
3	800	250	500	500	OT800U12	18	39.7
4	800	250	500	500	OT800U22	21	46.3
3	1200	-	-	-	OT1200U03	18	39.7
4	1200	-	-	-	OT1200U04	21	46.3
3	1200	-	-	-	OT1200U12	18	39.7
4	1200	-	-	-	OT1200U22	21	46.3
2	1600	-	-	-	OT1600U02	37	81.6
3	1600	-	-	-	OT1600U03	52	114.6
4	1600	-	-	-	OT1600U04	69	152.1
3	1600	-	-	-	OT1600U12	52	114.6
4	1600	-	-	-	OT1600U13	69	152.1
4	1600	-	-	-	OT1600U22	69	152.1
2	2000	-	-	-	OT2000U02	37	81.6
3	2000	-	-	-	OT2000U03	52	114.6
4	2000	-	-	-	OT2000U04	69	152.1
3	2000	-	-	-	OT2000U12	52	114.6
4	2000	-	-	-	OT2000U13	69	152.1
4	2000	-	-	-	OT2000U22	69	152.1

Approvals:
UL 98, CSA 22-2 No. 4
IEC 60947-3
CCC, EAC

Recommended shafts and handles.
The base mounted types with P at the end include following external handle and shaft.

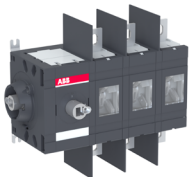
Suitable for switches	Shaft	Handle	Terminal bolt kits included
OT200U_	OXP6X210	OHB80J6	M8x25
OT400U_	OXP12X185	OHB145J12	M10x30
OT600U_	OXP12X185	OHB145J12	M12x40
OT800...2000U_	OXP12X280	OHB274J12	M12X60

Manual disconnect switches OT200...600, UL

Ordering information for side operated non-fusible disconnect switches



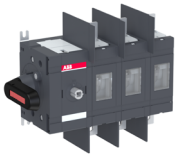
OT200US03



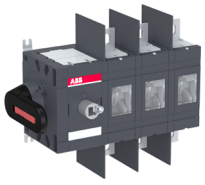
OT400US03



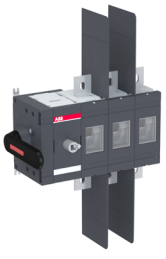
OT600US03



OT200US03K



OT400US03K



OT600US03K

Side operated non-fusible disconnect switches, base mounting, UL/CSA

Including terminal bolt kit. In OT_K -types a black ON-OFF direct mount handle as standard. The handle is padlockable in the OFF-position. Lugs are not included, need to be ordered separately

Number of poles	Ampere rating [A]	Horsepower rating 3-phase [HP] 240VAC	480VAC	600VAC	Type	Weight/unit [kg]	[lb]
Handle and shaft have to be ordered separately							
3	200	75	150	200	OT200US03	1.755	3.86
4	200	75	150	200	OT200US04	2.155	4.74
3	400	125	250	350	OT400US03	3.06	6.73
4	400	125	250	350	OT400US04	3.56	7.83
3	600	200	400	500	OT600US03	6.2	13.64
4	600	200	400	500	OT600US04	6.2	13.64
Direct mount handle included							
3	200	75	150	200	OT200US03K	1.855	4.08
4	200	75	150	200	OT200US04K	2.255	4.96
3	400	125	250	350	OT400US03K	3.16	6.95
4	400	125	250	350	OT400US04K	3.66	8.05
3	600	200	400	500	OT600US03K	6.2	13.64
4	600	200	400	500	OT600US04K	6.2	13.64

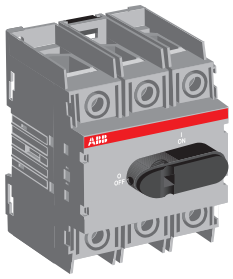
Approvals:
- OT200, 400, 600: UL 98, CSA 22-2 No. 4
- IEC 60947-3

Recommended shafts and handles

Suitable for switches	Shaft	Handle	Terminal bolts included as standard
OT200U_	OXP6X210	OHB65J6E00S	M8x25
OT400U_	OXP12X185	OHB145J12E00S	M10x30

Special configurations
Cable operated flange, 30 - 1200A





OT_F3

Flange Operated (cable) - 3 poles

UL general purpose amp rating	Catalog number
30	OT30F3
60	OT60F3
100	OT100F3
200	OT200U30
400	OT400U30-FC
600	OT600U30-FC
800	OT800U30-FC
1200	OT1200U30-FC



OHF1C12

Flange handles - UL98; UL file #E10191

For use with:	Environmental rating	Catalog number
OT30F3...100F3, OT200U30	NEMA 1, 3R, 12	OHF1C12
	NEMA 4, 4X	OHF1C4
OT400U30-FC, OT600U30-FC, OT800U30-FC, OT1200U30-FC	NEMA 1, 3R, 12	K7FCH
	NEMA 4, 4X	K7FCH4
OT800U30-FC, OT1200U30-FC	NEMA 1, 3R, 12	K8FCH
	NEMA 4, 4X	K8FCH4



OXC1L_

Flexible cables [1)]

For use with:	Cable length	Catalog number
OT30F3...100F3, OT200U30	36	OXC1L36
	48	OXC1L48
	60	OXC1L60
	72	OXC1L72
	84	OXC1L84
OT400U30-FC, OT600U30-FC, OT800U30-FC, OT1200U30-FC	48	K7C048
	60	K7C060
	72	K7C072
	84	K7C084
	96	K7C096

Operating mechanisms

For use with:	Catalog number
OT30F3...100F3, OT200U30	MKCS1
	MKCS4
OT400U30-FC, OT600U30-FC, OT800U30-FC, OT1200U30-FC	Included

1) Cable can not be cut and resized

Special configurations

Accessories for flange operated disconnects 30 - 1200A



OTS_G_L



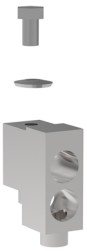
OTS_G_S



OZXA200



OZXA400



OZXA800



OZXA1200

Terminal lug kits

For use with	Wire size	Wire type	Description	Lugs per kit	Catalog number
OT200U30	#4 - 300kcmil	Cu/Al	—	6	OZXA-200
OT400U30-FC	#2 - 600kcmil	Cu/Al	—	6	OZXA-400
OT600U30-FC	(2) #2 - 600kcmil	Cu/Al	—	6	OZXA-800
OT800U30-FC	(2) #2 - 600kcmil	Cu/Al	—	6	OZXA-1200
OT1200U30-FC	(4) #2 - 600kcmil	Cu/Al	—	6	OZXA-1200

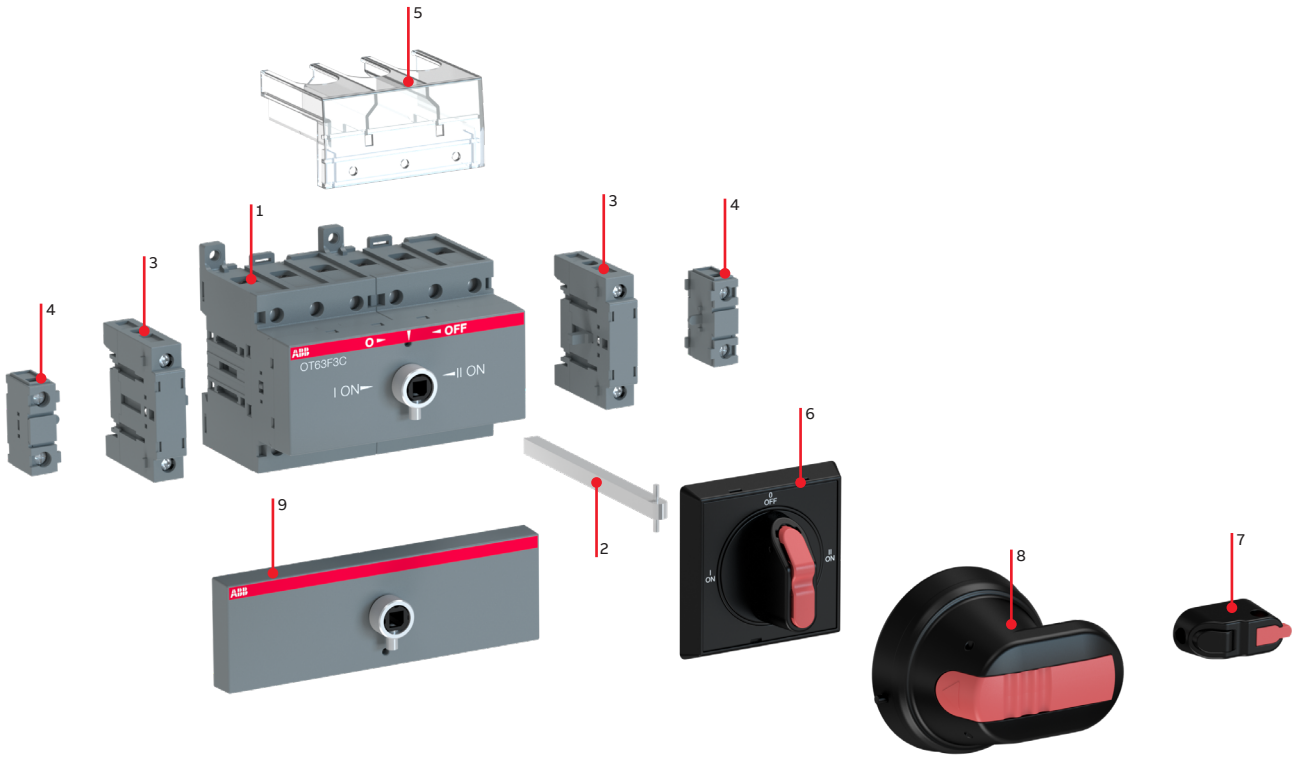
Terminal shrouds

For use with	Description, qty per kit	For full protection order	Weight (lbs.)	Catalog number
OT30 - OT100F3	3 Pole shroud, 1 pc	2 kits	0.02	OTS125T3
OT200U30	Single Pole Long Type Shroud, 3 pcs	2 kits	0.2	OTS250G1L/3
OT200U30	Single Pole Long Type Shroud, 3 pcs	2 kits	0.13	OTS250G1S/3
OT400U30-FC	3 Pole shroud, 1 pc	2 kits	0.13	OTS403-FC
OT600U30-FC	3 Pole shroud, 1 pc	2 kits	0.11	OTS603-FC
OT800U30-FC	3 Pole shroud, 2 pcs	1 kit	0.88	OTS803-FC
OT1200U30-FC	3 Pole shroud, 2 pcs	1 kit	1.2	OTS1203-FC

Manual change-over switches
Ordering information for OT16...OT100_C

Manual change-over switch accessory guide

1. Manual change-over switch
2. Extended shaft
3. Fourth pole
4. Auxiliary contact
5. Terminal shroud
6. Selector handle, black or red/yellow
7. Direct handle knob
8. Pistol handle, black or red/yellow
9. Conversion kit



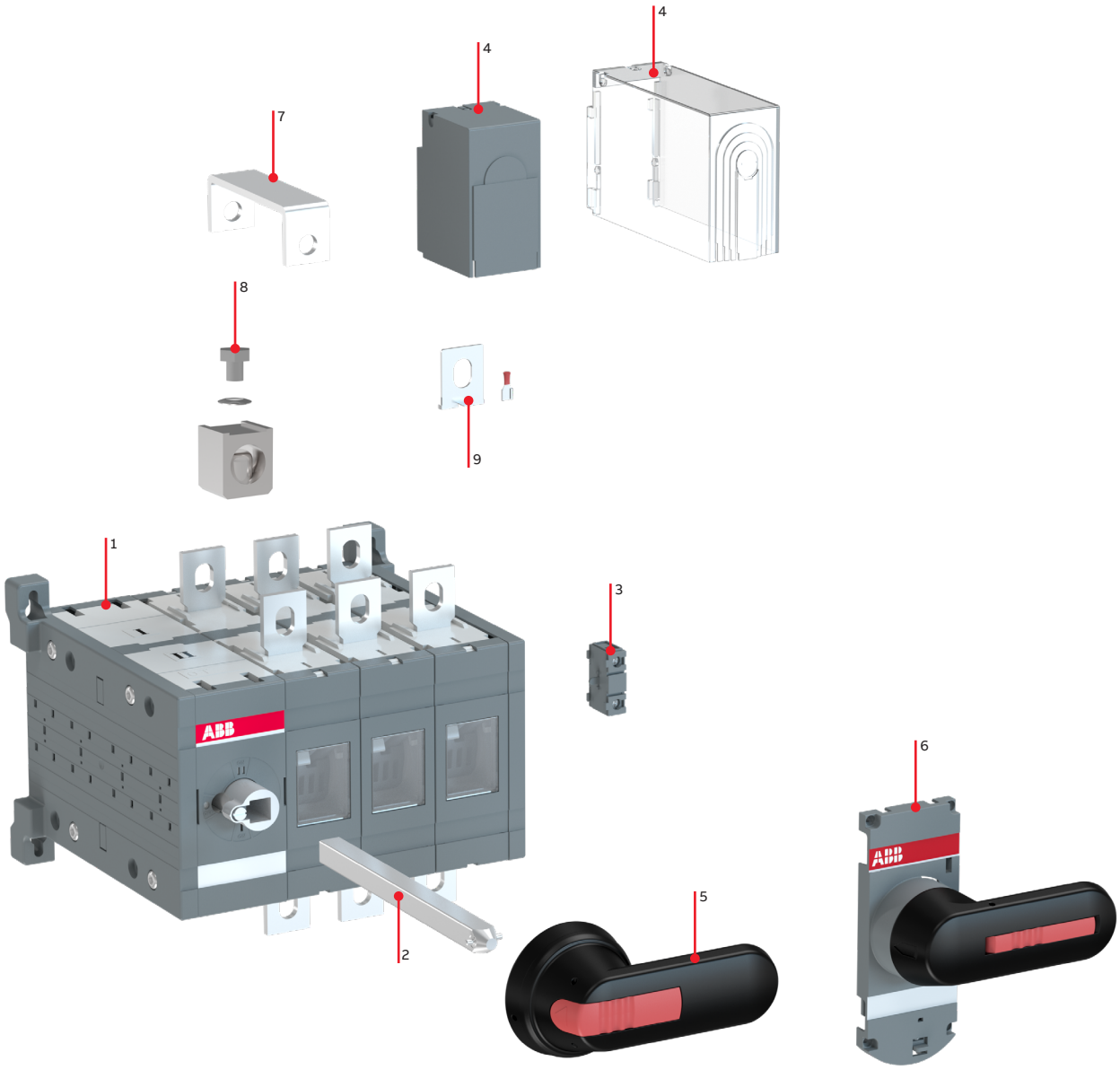
Lugs are integral in OT16F_C...OT100F_C

Manual change-over switches

Ordering information for OT200...OT800U_C, OT1200U_C

Manual change-over switch accessory guide

1. Manual change-over switch
2. Extended shaft
3. Auxiliary contact
4. Terminal shroud
5. Pistol handle
6. Director mount handle
7. Bridging bar
8. Lugs
9. Voltage sensing connector



Manual change-over switches
Ordering information for OT16...OT100F_C



OT16, OT25, OT40F3C



OT63...80F3C



OT100F3C

Direct operation:



OHBS3



OHBS9

External operation:

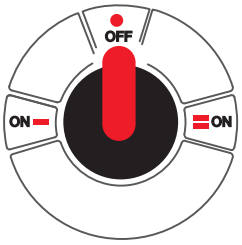


OHBS2AJE011



OHB45J6E311

Open transition
Simple I-O-II –operation where the handle is padlockable in O-position and door interlock available in the I- and II-positions (and when padlocked). Din-rail or base mounting.



Manual change-over switches, open transition, OT16...OT100F_C
Handle and shaft not included. See recommended accessories.

No. of poles	Rated current and power AC-21A/AC-22A ≤415V I[A]	400V S[kVA]	AC-23A 400...415V I[A]/P[kW]	Type	Weight/unit [kg]
3	16	11	16/7.5	OT16F3C	0.25
4	16	11	16/7.5	OT16F4C	0.31
3	25	17	20/9	OT25F3C	0.25
4	25	17	20/9	OT25F4C	0.31
3	40	27	23/11	OT40F3C	0.25
4	40	27	23/11	OT40F4C	0.31
3	63	43	45/22	OT63F3C	0.64
4	63	43	45/22	OT63F4C	0.70
3	80	55	75/37	OT80F3C	0.64
4	80	55	75/37	OT80F4C	0.70
3	100	70	80/37	OT100F3C	0.90
4	100	70	80/37	OT100F4C	1.18

Cable cross section of the change-over switches

Suitable for switches	Cable cross section [mm2]
OT16, OT25, OT40F_C	0.75...10
OT63...80F_C	1.5...35
OT100F_C	10...70

Recommended accessories: Handles, shafts and parallel connection kit

Suitable for switches	Operating type	Handle type	Shaft type
OT16...80F_C	Direct operation	OHBS3	–
OT63...100F_C	Direct operation	OHBS9	–
OT16...100F_C	Selector handle (external)	OHBS2AJE011	OXS6X120
OT16...100F_C	Pistol handle (external)	OHB45J6E311	OXP6X170

Approvals:
-OT16,25,40,63,80: UL508. CSA 22-2 No.14
-OT30,60,100: UL98. CSA 22-2 No.4
-IEC 60947-3

Manual change-over switches

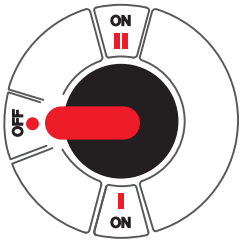
Ordering information for UL/CSA OT30...100F_C, OT200...800U_C, OT1200U_C



OT100...125F3C

Open transition

Double-throw switch for use in optional standby system. Simple I-O-II –operation where the handle is padlockable in O-position and door interlock available in the I- and II-positions (and when padlocked).





OT200U03CP

UL/CSA manual change-over switches, open transition, OT30...100F_C, OT200...800_C, OT1200U_C.
OT30...100F_C Handle and Shaft are not included in standard delivery.
The change-over switches are delivered with a black handle IP65, Nema type 1, 3R, 12, a shaft and a bolt set for the cable connection and a set of phase separators.
Change-over switches without accessories are also available under OT_C ordering code.



OT400U04CP

No. of poles	Rated current and power UL98 600V general use[A]	IEC60947-3 ≤415V AC-21-22A[A]	IEC60947-6-1 ≤415V AC-31B/AC-33B[A]	Type	Units/ type [pcs]	Weight/ unit [kg]
3	30	40/40		OT30F3C	1	0.9
4	30	40/40		OT30F4C	1	1.18
3	60	63/63		OT60F3C	1	0.9
4	60	63/63		OT60F4C	1	1.18
3	100	100/80		OT100F3C	1	0.9
4	100	100/80		OT100F4C	1	1.2
3	200	250	250/250	OT200U03CP	1	3.6
4	200	250	250/250	OT200U04CP	1	4.4
3	400	400	400/400	OT400U03CP	1	6.2
4	400	400	400/400	OT400U04CP	1	8.1
3	600	800	800/800	OT600U03CP	1	17.9
4	600	800	800/800	OT600U04CP	1	21
3	800	800	1600/1000	OT800U03CP	1	51
4	800	800	1600/1000	OT800U04CP	1	63
3	940 [1)]	940 [1)]	1600/1000	OT1200U03CP	1	51
4	940 [1)]	940 [1)]	1600/1000	OT1200U04CP	1	63



OT600U03CP

Shafts, handles and bolt kits included as standard
The handles are equipped with door interlock function in both I- and II-position and when padlocked. Padlocking possibility in O-position with 3 padlocks, bail dia Ø 5...10 mm. Indication I-O-II. Nema type 1, 3R, 12.
OT30...100F_C Handle and Shaft are not included in standard delivery.

Suitable for switches	Shaft	Handle	Bolt kit
OT200U_	OXP6x161	OHB65J6E011	M8x25
OT400U_	OXP12x166	OHB95J12E011	M10x30
OT600U_	OXP12x185	OHB125J12E011	M12x40
OT800U_, OT1200U_	OXP12X185	OHB200J12PE011	M12x60



OT800U03CP + OHB200J12PE011

1) OT1200U_C is not UL approved product. It is cURus recognized produt for 940A @600Vac.

Manual disconnect switches OT16...100, UL

Technical data for non fusible disconnect-switches

Technical data according to UL/CSA, AC ratings				Switch type													
				OT16F		OT25F		OT40F		OT63F		OT80F		OT30F		OT60F	OT100F
		Approval		cULus Listed		cULus Listed		cULus Listed		cULus Listed		cULus Listed		cULus Listed		cULus Listed	cULus Listed
				E63822		E63822		E63822		E63822		E63822		E101914		E101914	E101914
		Compliance		UL508		UL508		UL508		UL508		UL508		UL98		UL98	UL98
				CSA C22.2 No.14		CSA C22.2 No.14		CSA C22.2 No.14		CSA C22.2 No.14		CSA C22.2 No.14		CSA C22.2 No.4		CSA C22.2 No.4	CSA C22.2 No.4
General purpose amp rating	pf= 0.7...0.8	-40° to 40 °C	A	20		30		40		60		80		30		60	100
Max. oprerating voltage			V	600		600		600		600		600		600		600	600
Max. horsepower rating / motor FLA current	pf= 0.4...0.5	240 V	HP/A	5/15.2		7.5/22.0		10/28.0		15/42.0		20/54.0		10/28.0		20/54.0	30/80.0
	Three phase	480 V	HP/A	10/14.0		15/21.0		20/27.0		30/40.0		40/52.0		20/27.0		40/52.0	50/65.0
		600 V	HP/A	10/11.0		20/22.0		25/27.0		30/32.0		40/41.0		30/32.0		40/41.0	50/52.0
	Single phase	120 V	HP/A	1/16.0		1.5/20.0		2/24.0		2/24.0		2/24.0		2/24.0		3/34.0	5/56.0
		240 V	HP/A	2/12.0		3/17.0		5/28.0		7.5/40.0		10/50.0		5/28.0		7.5/40.0	15/68.0
		480 V	HP/A	5/14.0		7.5/21.0		10/26.0		15/34.0		20/44.0		-		-	25/55.0
		600 V	HP/A	7.5/16.0		10/20.0		15/27.0		15/27.0		20/38.5		-		-	20/35.0
Short circuit rating with fuse	Maximum fuse size			30	60	30	60	30	60	100	150	100	150	60		60	150	100
	Fuse type	J	kA	10	10	10	10	10	10	100		100		200		200	50	200
	Fuse type	T	kA	10	10	10	10	10	10	100		100		200		200	50	200
	Fuse type	RK1	kA	10		10		10										
	Fuse type	RK5*	kA	5	5	5	5	5	5	10	5	10	5					
	Fuse type	L	kA															
	Fuse type	H	kA								5		5					
Endurances																		
Min. electrical endurance, pf. 0.75...0.8			oper. cycles	6 000		6 000		6 000		6 000		6 000		6 000		6 000	6 000	
Mechanical endurance			operations	20 000		20 000		20 000		20 000		20 000		20 000		20 000	20 000	
Terminal lugs				integrated		integrated		integrated		integrated		integrated		integrated		integrated	integrated	
Copper wire range		60-75 °C	AWG	18-8		18-8		18-8		14-4		14-4		14-4		14-4	8-1/0	
Torque		Wire tightening	lb.in/ Nm	7/0.8		7/0.8		7/0.8		18/2		18/2		55/6.2		55/6.2	55/6.2	

* Fuse size 70A for RK5.

Manual disconnect switches OT16...100, UL

Technical data for non fusible disconnect-switches

Technical data according to IEC 60947-3				**Switch type**							
				OT16F	**OT25F**	**OT40F**	**OT63F**	**OT80F**	**OT30F**	**OT60F**	**OT100F**
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3		V	750	750	750	750	750	750	750	750
Dielectric strength		50 Hz 1min.	kV	6	6	6	6	6	6	6	6
Rated impulse withstand voltage			kV	8	8	8	8	8	8	8	8
Rated operational current, AC-22A		up to 415 V	A	16	25	40	63	80	40	63	100
		440...500 V	A	16	25	40	63	80	40	63	100
		690 V	A	16	25	40	63	80	40	63	100
Rated operational current, AC-23A		up to 415 V	A	16	20	23	45	75	40	63	80
		440 V	A	16	20	23	45	65	40	63	65
		500 V	A	16	20	23	45	58	40	63	60
		690 V	A	10	11	12	20	20	40	40	40
Rated conditional short-circuit current I_{cc} (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$. The cut-off current $\hat{i}c$ refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	I_{cc} (r.m.s.)	50 kA	kA	6.5	6.5	6.5	13	13	16.5	16.5	16.5
	Max. OFA_ fuse size gG/aM	415 V	A	40/32	40/32	40/32	100/80	100/80	125/125	125/125	125/125
	I_{cc} (r.m.s.)	10 kA	kA						8.2	8.2	8.2
	Max. OFA_ fuse size gG/aM	690 V	A						125/100	125/100	125/100
	I_{cc} (r.m.s.)	50 kA	kA	4	4	4	11	11	10	10	10
	Max. OFA_ fuse size gG/aM	690 V	A	25/16	25/16	25/16	80/63	80/63	63/63	63/63	63/63
Rated short-time withstand current	r.m.s. -value I_{cw}	690 V, 1 s	kA	0.5	0.5	0.5	1	1.5	2.5	2.5	2.5
Rated short circuit making capacity	Peak value I_{cm}	690 V/500 V	kA	0.71	0.71	0.71	1.4	2.1	3.6	3.6	3.6
Power loss / pole		At rated operational current	W	0.3	0.6	1.6	2.8	4.5	0.7	1.6	4.0
Mechanical endurance		Divide by two for operation cycles	Oper.	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000
Weight without accessories		3-pole	kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36
		4-pole	kg	0.15	0.15	0.15	0.35	0.35	0.50	0.50	0.50

Manual disconnect switches OT160, IEC, UL

Technical data for non fusible disconnect-switches

Technical data according to UL98, CSA C22.2 No.4

				cULus Listed	UL Recognized
General purpose amp rating	pf=0.7...0.8	-40° to 40 °C	A	100	125
max. operating voltage			V	600	600
Max. horsepower rating/motor FLA current	pf=0.4...0.5	240Vac	HP/A	40/104	40/104
	Three phase	480Vac	HP/A	75/96	75/96
		600Vac	HP/A	100/99	100/99
	Single phase	240Vac	HP/A	20/88	20/88
		480Vac	HP/A	30/66	30/66
		240Vdc	HP/A	30/106	30/106
Fuse size/short circuit rating	Fuse type	J	A/kA	150/100	150/100
		T	A/kA	150/100	150/100
		RK5	A/kA	60/100	60/100
Endurances					
Min. electrical endurance, pf. 0.75 - 0.8		Oper. cycles		6 000	6 000
Mechanical endurance		Operations		20 000	20 000
Terminal lug kits				integrated	integrated
Wire range	Use copper conductors only		AWG 60-75°C	8-1/0	8-1/0
Torque		Wire tightening	lb.in	53	53
Weight without accessories	3-pole switch		lb	0,5	0,5
	4-pole switch		lb	0,6	0,6
Minimum enclosure dimensions	Height x width x depth		mm	400 X 600 X 230	
			in	15.75 X 23.62 X 9.06	

Technical data according to IEC 60947

Rated insulation voltage		Pollution degree 3	V	1 000
Dielectric strength		50 Hz 1min.	kV	10
Rated impulse withstand voltage			kV	12
Rated thermal current in ambient 35 °C		In open air	A	160
and temporarily 40 °C		In enclosure	A	160
...with minimum cable or bar cross section		Cu	mm²	70
Rated operational voltage AC-20 and DC-20			V	1 000
Rated operational current, AC-21A, AC-22A,		up to 415 V	A	160
AC-23A		500 V	A	160
		690 V	A	160
Rated operational current / poles in series		Up to 220 V	A	160/2
for DC-21A, DC-22A, DC23A		440 V	A	125/3
		680 V	A	125/4
Rated operational power, AC-23	The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors.	230 V	kW	45
		400 V	kW	75
		415 V	kW	75
		500 V	kW	90
		690 V	kW	132
Rated breaking capacity in category AC-23		up to 500 V	A	1 280
		690 V	A	1 280
Rated conditional short-circuit current	at prospective SC-current	100 kA, 500 V	kA	30
max. allowed cut-off current, peak value.	max. OFA_ fuse size gG / aM		A	200/200
The cut-off currents refer to single phase		50 kA, 690 V	kA	24
fuse tests according to fuse manufacturers			A	200/200
declarations. For combination starters, see				
coordination tables.				
Rated short-time withstand current	R.M.S.-value I_{cw}	690 V	0,25s	kA	7
		690 V	1s	kA	4
Rated short-circuit making capacity	Peak value Icm	690 V		kA	12
Rated capacitor power when no initial	Capacitor ratings	415 V		kVAr	65
charge on the capacitor	limited by fuse links				
Power loss / pole	With rated current			W	6,5
Mechanical endurance	Divide by two for operation cycles			Oper.	20 000
Weight without accessories	3-pole switch			kg/lb	1,1/0,5
	4-pole switch			kg/lb	1,3/0,6
Standard shaft and mounting depth	Square dimension x length of shaft			mm	6X210
	Corresponding mounting depth			mm/in	230-248/9.2-9.9
Standard handle				Type	OHB65J6
Cu-wire size suitable for terminal	60-75 °C			mm²/ AWG	10-70 / 8-1/0
Terminal tightening torque				Nm / lb·in	6/53
Operating torque	Typical for 3 and 4-pole switches			Nm / lb·in	4/35.3

Manual disconnect switches OT200...1200, UL

Technical data for non fusible disconnect-switches

				Switch type				
				OT200U	**OT400U**	**OT600U**	**OT800U**	**OT1200U**
		Approval File #		**CULUS Listed E101914 IEC**	**CULUS Listed E101914 IEC**	**CULUS Listed E101914 IEC**	**CULUS Listed E101914 IEC**	**CULUS Listed E101914 IEC**
		Compliance		**UL98 CSA C22.2 No.4**	**UL98 CSA C22.2 No.4**	**UL98 CSA C22.2 No.4**	**UL98 CSA C22.2 No.4**	**UL98 CSA C22.2 No.4**
Technical data according to UL/CSA AC Ratings								
General purpose amp rating	pf= 0.7...0.8	-40° to 40 °C	A	200	400	600	800	1 200
Max. oprerating voltage			V	600	600	600	600	600
Max. horsepower rating / max. motor FLA current	pf= 0.4...0.5	240 V	HP/A	75/192.0	125/312.0	200/480	200/602	
	Three phase	480 V	HP/A	150/180.0	250/302.0	450/515.0	480/590	
		600 V	HP/A	200/192.0	350/336.0	500/472.0	500/472	
Short circuit rating with fuse	Fuse type	J	kA	200 / 100	100	100		
		T	kA	100		100		
	Fuse type	RK5	kA			100		
		L	kA			100	100	100
Maximum fuse size			A	200 / 350	600	600 / 800	800	1 200
Current rating		at 250 VDC	A	200	400	600		
		at 600 VDC	A	100	200	200		
DC horsepower rating for 4-pole switch		at 600 VDC	HP	50	50	-		
DC horsepower rating for 2-pole switch		at 125 VDC	HP	20	40	-		
		at 250 VDC	HP	40	50	50		
DC short circuit rating for 4-pole switch		with circuit breaker	kA	10	10	10		
DC short circuit rating for 2-pole switch		with circuit breaker at 250 VDC	kA	14	14	18		
		with circuit breaker at 600 VDC	kA	10	10	10		
		with class J fuse at 250 VDC	kA	100	100	100		
		with fuse size	A	200	400	600		
Min. electrical endurance, pf. 0.75...0.8		oper. cycles		6 000	1 000	1 000	500	500
Mechanical endurance		Divide by two for operation cycles	operations	20 000	16 000	10 000	6 000	6 000
Terminal lug kits (optional)		75 °C wire		OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200
Wire range			AWG	4-300MCM	2-600MCM	2 x 2-600MCM	4 x 2-600MCM	4 x 2-600MCM
Torque		Wire tightening	lb.in/Nm	275/22.6	375/42.4	500/56.5	500/56.5	500/56.5
		Lug mounting	lb.in/Nm	72/8.1	240/27.1	480/54.2	443/50.1	443/50.1
Minimum enclosure dimensions at rated current		Height x Width x Depth	mm in	508x407x178 20.3x16.3x7.1	600x350x200 24x14x8	600x700x300 24x28x12	1220x610x305 48.8x24.4x12.2	700x900x400 28x36x16

Manual disconnect switches OT200...1200, UL

Technical data for non fusible disconnect-switches

				Switch type				
Technical data according to IEC 60947				**OT200U**	**OT400U**	**OT600U**	**OT800U**	**OT1200U**
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3		V	1 000	1 000	1 000	1 000	1 000
Dielectric strength	50 Hz, 1min.		kV	10	10	10	10	10
Rated impulse withstand voltage			kV	12	12	12	12	12
Rated operational current, AC-22A		up to 415 V	A	250	400	800	1 600	1 600
		440...500 V	A	250	400	800	1 600	1 600
		690 V	A	250	400	800	1 600	1 600
Rated operational current, AC-23A		up to 415 V	A	250	400	800	1 250	1 250
		440 V	A	250	400	800	1 250	1 250
		500 V	A	250	400	800	1 250	1 250
		690 V	A	250	400	800	1 250	1 250
Rated conditional short-circuit current I_{cc} (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$. The cut-off current $\hat{i}_c$ refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)	I_{cc} (r.m.s.)	50 kA	kA	35	50.5	71.5		
	Max. OFA_ fuse size gG/aM	690 V	A	355/315	500/500	800/1 000		
	At prospective SC-current	80 kA	kA	40.5	59	83.5		
	Max. OFA_fuse size gG/aM	690 V	A	355/315	500/500	800/1 000		
Rated short-time withstand current	r.m.s. -value I_{cw}	690 V, 1 s	kA	8	15	20	50	50
Rated short circuit making capacity	Peak value I_{cm}	500/690 V	kA	30	65	80	110[1)]	110[1)]
Max.distance from switch to nearest bus bar / cable support mm							150 mm	150 mm
Power loss / pole	At rated operational current		W	6.5	10	40	29	48
Weight without accessories		3-pole	kg/lb	1.2/2.65	2.2/4.85	5.2/11.46	15.2/33.51	15.2/33.51
		4-pole	kg/lb	1.5/3.31	2.8/6.17	6.4/14.11	19.5/43	19.5/43
Terminal bolt size	Metric thread diameter x length		mm	M8x25	M10x30	M12x40	M12x50	M12x60

1) The value is 92 kA for 4-pole disconnect switch.

Manual disconnect switches OT1600...2000, UL

Technical data for non fusible disconnect-switches

			Switch type	
Technical data according to UL/CSA			**OT1600U**	**OT2000U**
	Approval File #		CULUS Listed E101914	CULUS Listed E101914
	Compliance		UL98 CSA C22.2 No.4	UL98 CSA C22.2 No.4
General Use AC ratings -40 to +40°C Voltage rating	pf=0.7...0.8 Single and three phase	A V	1 600 600	2 000 600
Maximum General Use DC Ratings		250Vdc	1 600	2 000
Short circuit rating with fuse	Fuse type L	kA	100	100
Maximum fuse size		A	2 000	2 000
Minimum electrical endurance pf. 0.75...0.8 Mechanical endurance	 Divide by two for operation cycles	Oper.cycles Oper.	500 2 500	500 2 500
Gross/ net weight without handle, shaft and accessories	2-pole switch 3-pole switch 4-pole switch	kg - lb kg - lb kg -lb	37/34 - 81.6/75 52/49 - 114.6/108 69/65 - 152.1/143.3	37/34 - 81.6/75 52/49 - 114.6/108 69/65 - 152.1/143.3
Standard shaft and mounting depth Standard handle	Square dimension x lenght of shaft Corresponding mounting depth	mm / in mm / in Type	12x185 / 0.47x7.3 358-444 / 13.6-16.8 OHB 274J12	12x185 / 0.47x7.3 358-444 / 13.6-16.8 OHB 274J12
Terminal bolt size Terminal bolt tightening torque	Metric thread diameter x lenght Counter torque required	mm Nm / lb.in	M12x60 (included) 50 / 443	M12x60 (included) 50 / 443
Terminal lug kits (optional)	75 °C wire	Qty / switch Wire range	2x OZXA-1200 2x 4x2-600MCM	2x OZXA-1200 2x 4x2-600MCM
Torque	Wire tightening Lug mounting	Nm / lb.in Nm / lb.in	56 / 500 50 / 443	56 / 500 50 / 443
Minimum enclosure dimensions	Height x Width x Depth	mm in	1 000x800x450 39.4x31.5x17.7	1 000x800x450 39.4x31.5x17.7



Open style fusible disconnect switches

Fusible Disconnect switches, 30-1200A, 600Vac
Fusible disconnect switches applications 3/4
Fusible disconnect switches, world class performance in the most demanding applications 3/5
Selection guide, OS30-1200 3/6
Selection Information, standard part number designation 3/7
Manual operated fusible disconnect switches OS30FA_, OS60G, selection overview 3/8
Manual operated fusible disconnect switches OS100...1200, selection overview 3/9
Manual operated fusible disconnect switch, UL/CSA, ordering information 3/10

Special configurations:
Side operated, 30-600A, UL fuse class CC & J 3/17
Shaft operated flange, fusible disconnect switch 30-100A 3/18
Cable operated flange, fusible disconnect switch 30-1200A 3/19
Shaft operated flange, accessories 30-1200A 3/20

Fusible disconnect switches, UL/CSA, technical data
Fusible disconnect switch OS30-200 3/21
Fusible disconnect switch OS400-1200 3/22

Fusible disconnect switches
30 - 1200A, 600 VAC

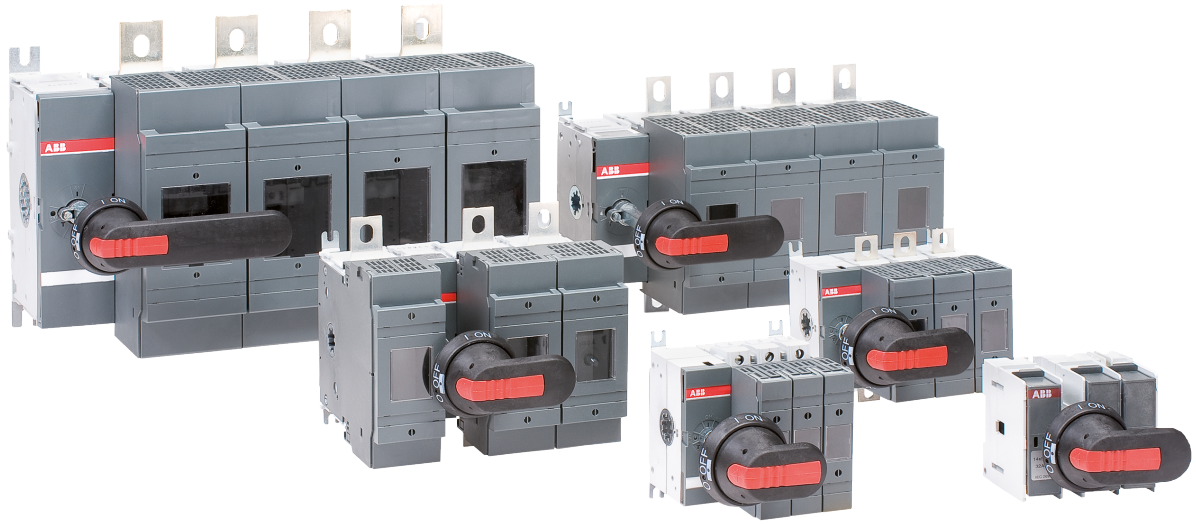


ABB disconnect switch family includes seven different amperage sizes from 30A to 1200 A. All ABB fusible switches are designed to meet customer requirements in terms of high interrupting capacity and long electrical life while occupying only little more panel space than the appropriate fuses. The basic construction provides flexibility and high performance in an extremely compact size. ABB's disconnects are a perfect choice to withstand the heat and humidity of the tropics, the extreme cold of the arctic and any rugged industrial environment you may have.

Reliable in extreme conditions

Reliability and performance
OS fusible disconnect switches are the optimal solution for motor protection. They can be installed next to transformers in heavy industry. The contact design combined with the fuse link enables rapid fault clearance and maintains protection level even after a fault occurs. Our motorized fusible disconnect switches (IEC only) protect motors from overcurrent and can be operated both remotely and manually.

Safety and protection

Safe maintenance and operation
OS fusible disconnect switches are designed for personal safety as well as for reliable process protection. When in the ON position, the interlocked fuse protection covers cannot be removed. When in the OFF position, the fuse link is fully isolated from both ends. Also, the handle is padlockable with three separate padlocks for ensured safety.

Speed up your projects

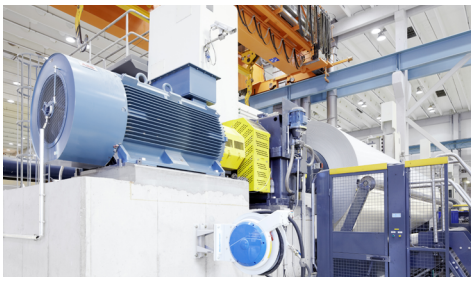
Proven and practical
Test proven type 2 coordination tables for the OS fusible disconnect switches are available online 24/7. From there you can easily select the appropriate ABB components for motor starting and protection.These motor starting solutions also help minimize the time needed for sizing all the starter components and ensure reliable operation after a fault occurs.

Fusible disconnect switches

World class performance in the most demanding applications

ABB fusible disconnect switches deliver superior performance and protection for even the most demanding industrial applications.









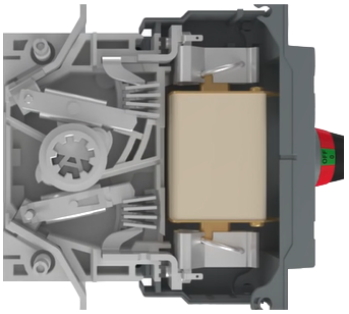
OS fusible disconnect switches are ideal for demanding applications where continuity of operations is vital even in case of a fault. These devices are used for protection in a wide range of applications. They are often found in power distribution boards and control cabinet in heavy industrial use. They are built to meet installation requirements close to the main transformer.

In addition to industrial, business and residential buildings, these fusible disconnect switches are regularly used industrial cranes and hoists to isolate and protect the motors. OS fusible disconnect switches may also be found protecting stored energy and battery packs from potential short circuits and safely isolate them during maintenance.

Fusible disconnect switches

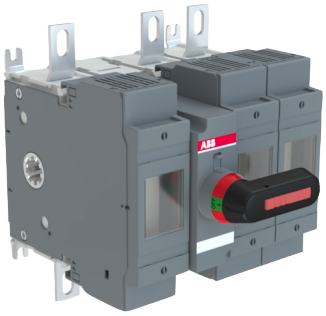
World class performance in the most demanding applications

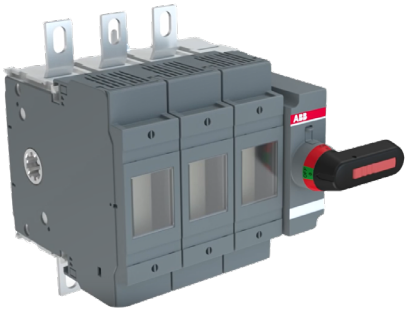
Designed for extreme conditions
Thanks to the knife contact design, the current flow keeps the contacts pushed firmly together before, during and after a fault without damaging the switch or affecting the performance of the contacts. The contacts are self-cleaning and maintenance free, providing a long, reliable electrical life. In OFF- position, the fuse link is fully isolated from both ends.



Pole structure in OFF- position

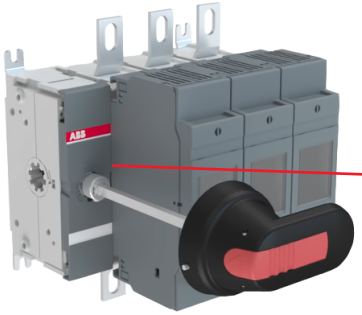
Modular design
All our switches have been designed for easy and cost-efficient installation, maintenance and use. The modular design enables 2-, 3- and 4-pole installation with different position of the switching mechanism to suit your needs and special requirements.

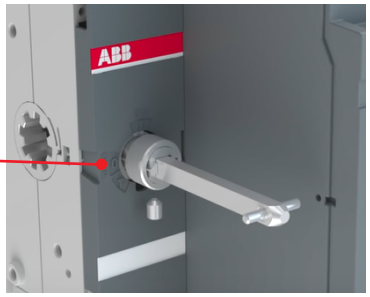




Modular design

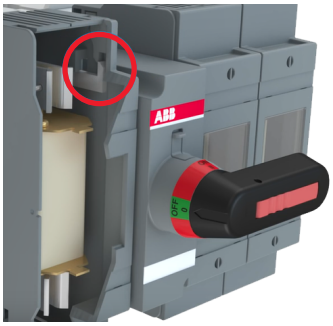
Time saving accessories
The adjustable shaft (for external handles), mounting feet, along with snap-on auxiliary contacts and terminal shrouds create considerable savings in terms of installation time and costs. For example, the shaft can be adjusted to various installation depths, which eliminates the need for special cutting tools. This decreases handle installation times by up to 50%.





Adjustable shaft

Safety for personnel
The interlocking fuse covers prevent opening while the switch is in “ON” position. The fusible disconnect switches have contacts on both sides of the fuse. The fuses are totally isolated in the “OFF” position, reducing the risk of electric shock to authorized personnel.

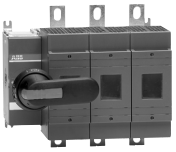


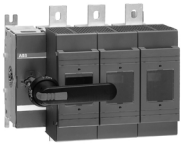
Interlocking fuse covers

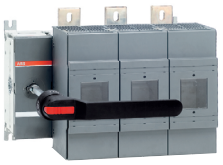
Selection guide
OS30 - 1200


OS30FAJ12P


OS200J03P


OS400J03P


OS600J03P


OS1200L03P

Catalog number	3pole	OS30FACC12	OS30FAJ12	OS60GJ12	OS100GJ03	OS200J03	OS400J03	OS600J03	OS800L03	OS1200L03
General purpose amp rating	**A**	**30**	**30**	**60**	**100**	**200**	**400**	**600**	**800**	**1200**
Approvals [1]										
	2 pole	N/A	N/A	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC
	3 pole	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC
	4 pole	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC
Technical ratings - UL,CSA										
Max operating voltage	V	600	600	600	600	600	600	600	600	600
Max horsepower rating										
Three phase										
240V	HP	7.5	7.5	15	30	60	125	200	250	–
480V	HP	15	15	30	60	125	250	400	500	–
600V	HP	20	20	50	75	150	350	500	500	–
Single phase										
120V	HP	2	2	–	–	–	–	–	–	–
240V	HP	3	3	–	–	–	–	–	–	–
UL fuse class		CC	J	J	J	J	J	J	L	L
Technical ratings - IEC										
Rated insulation and operational voltage. AC20 and DC20	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I										
AC 20/DC 20 open	A	32	32	63	160	200	400	630	800	1250
AC 20/DC 20 enclosed	A	32	32	63	160	200	400	570	720	1000
AC 21 A ≤500V	A	32	32	63	160	200	400	630	800	1250
≤690V	A	32	32	63	160	200	400	630	800	1250
Rated operational power AC23										
400V/415V	kW	15	15	30	75	110	230	355	450	560
690V	kW	22	22	55	132	200	400	630	710	1000
Physical characteristics										
Weight 3 pole switch	kg	0.7	0.7	1.3	1.5	2.6	5.7	11.5	11.5	29
4 pole	kg	0.9	0.9	1.6	1.8	3.2	6.9	14	14	36
Dimension 3 pole H	mm	97	97	100	143	200	200	290	290	287
W	mm	106	106	145	223	262	285	373	373	429
D	mm	107	107	128	131	199	206	234	234	294
Accessories										
Double break contacts		S	S	S	S	S	S	S	S	S
Fuse cover		S	S	S	S	S	S	S	S	S
Terminal lug kit		Integral	Integral	Integral	OZXA-24	OZXA-200	OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Terminal shroud		Not required	Not required	Not required	•	•	•	•	•	•
Auxillary contact		•	•	•	•	•	•	•	•	•
Shaft/handle diameter		6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	6mm .24" x .24"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"	12mm .47" x .47"
Handle UL/NEMA type										
Type 1, 3R, 12		•	•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•	•
Recommended pistol handle length		45 - 65mm	45 - 65mm	45 - 65mm	45 - 65mm	65 - 80mm	125 - 175mm	125 - 175mm	125 - 175mm	125 - 175mm
Maximum recommended shaft length		290mm	290mm	290mm	290mm	290mm	535mm	535mm	535mm	535mm
Electrical interlock		–	–	–	–	–	•	•	•	•

S = Standard
• = Available
– = Not available

1) UL listed switches are also listed for CSA Standards.

Selection information

Standard part number designation [1)]

Fusible OS Switches (30A)

OS 30 F A J 22 F

Amperage
30 = 30 amps

Fuse Type/Class
J = Class J fuse compatible CC = Class CC fuse compatible

Number of poles and placement of the mechanism
12 = 1 Pole left of mechanism, 2 poles right of mechanism
22 = 2 Poles left of mechanism, 2 poles right of mechanism

Fusible OS Switches (60 to 100A)

OS 100G J 03 P

Amperage
60 = 60 amps 100 = 100 amps

Fuse Type/Class
J = Class J fuse compatible

Number of poles and placement of the mechanism
03 = 3 Poles to the right of mechanism 04 = 4 poles to the right of mechanism

Pistol handle and shaft

Fusible OS Switches (200A and above)

OS 200 J 04 F

Amperage
200 = 200 amps 400 = 400 amps 600 = 600 amps 800 = 800 amps 1200 = 1200 amps

Fuse Type/Class
J = Class J fuse compatible L = Class L fuse compatible

Number of poles and placement of the mechanism
03 = 3 Poles to the right of mechanism 04 = 4 poles to the right of mechanism
12 = 1 Pole to left of mechanism, 2 poles to right 22 = 2 Poles to left of mechanism, 2 poles to right
30 = 3 Poles to the left of mechanism

Pistol Handles

O H B 65 J 6 E011

Handle Color
B = black Y = Red/Yellow M = Stainless Steel

Handle Lenght
65 = 65mm 80 = 80mm 125 = 125mm 145 = 145mm 175 = 175mm 274 = 274mm 330 = 330mm

Environmental Rating
J = Nema 1, 3R, 12 L = Nema 1, 3R, 12, 4, 4X

Shaft Diameter
6 = 6mm 12 = 12mm

Special Configuration
Blank = for disconnect switches, fusible and non-fusible EH = Stainless steel hasp
E011 = 3 pos. double throw handle, padlockable (3 padlocks in 0-position) E20 = Padlockable in all positions OFF and ON
E311 = 3 pos. double throw handle, padlockable (3 padlocks in all positions)

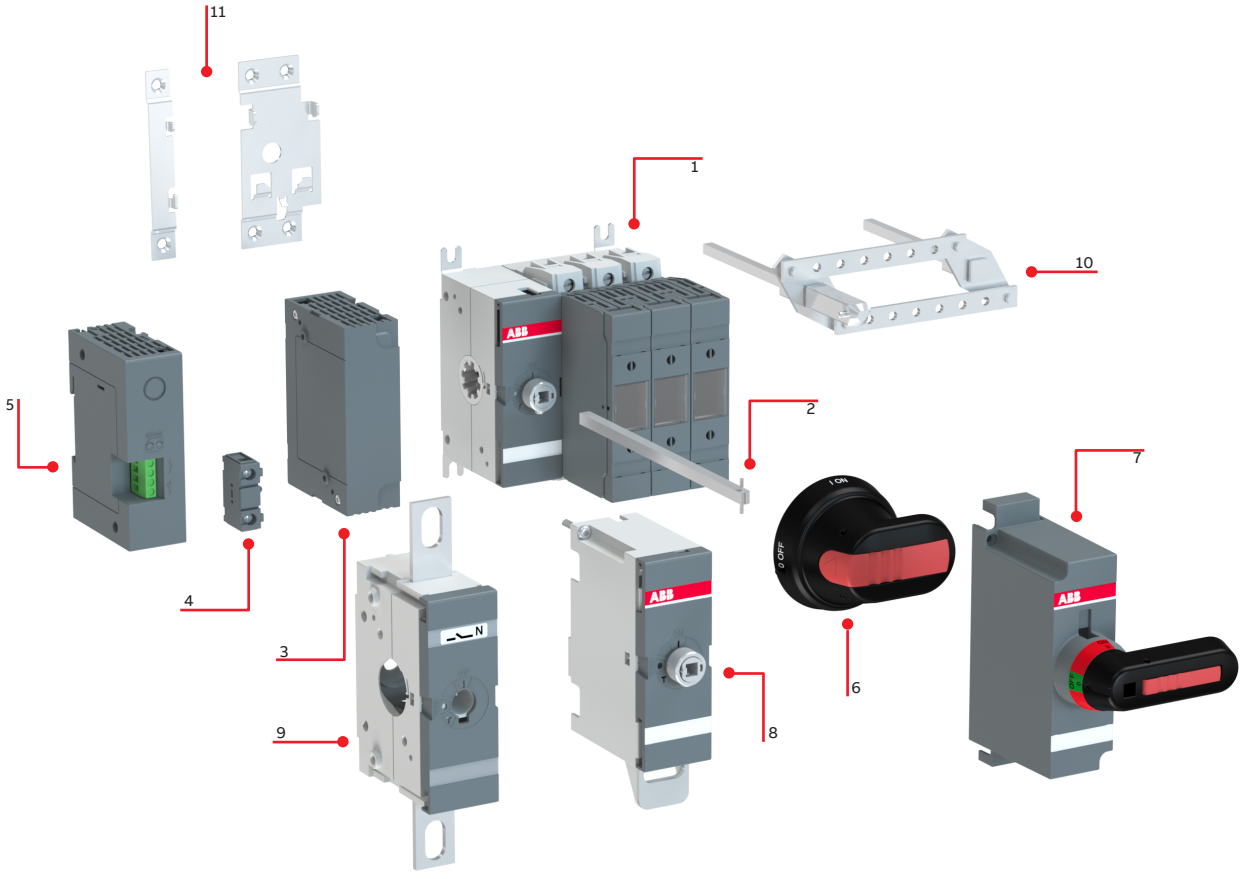
1) Part designation keys are provided for reference only. Not all variations or configurations are available.

Manual operated fusible disconnect switches OS30FA_, OS60G

Selection overview

Accessory guide for OS60G [1)]

1. Fusible disconnect switch
2. Shaft
3. Module for auxiliary contacts
4. Auxiliary contact
5. Fuse monitor
6. Pistol type handle
7. Direct mounted handle
8. Electrical interlock
9. Detachable neutral link
10. Conversion kit
11. DIN rail mounting kit

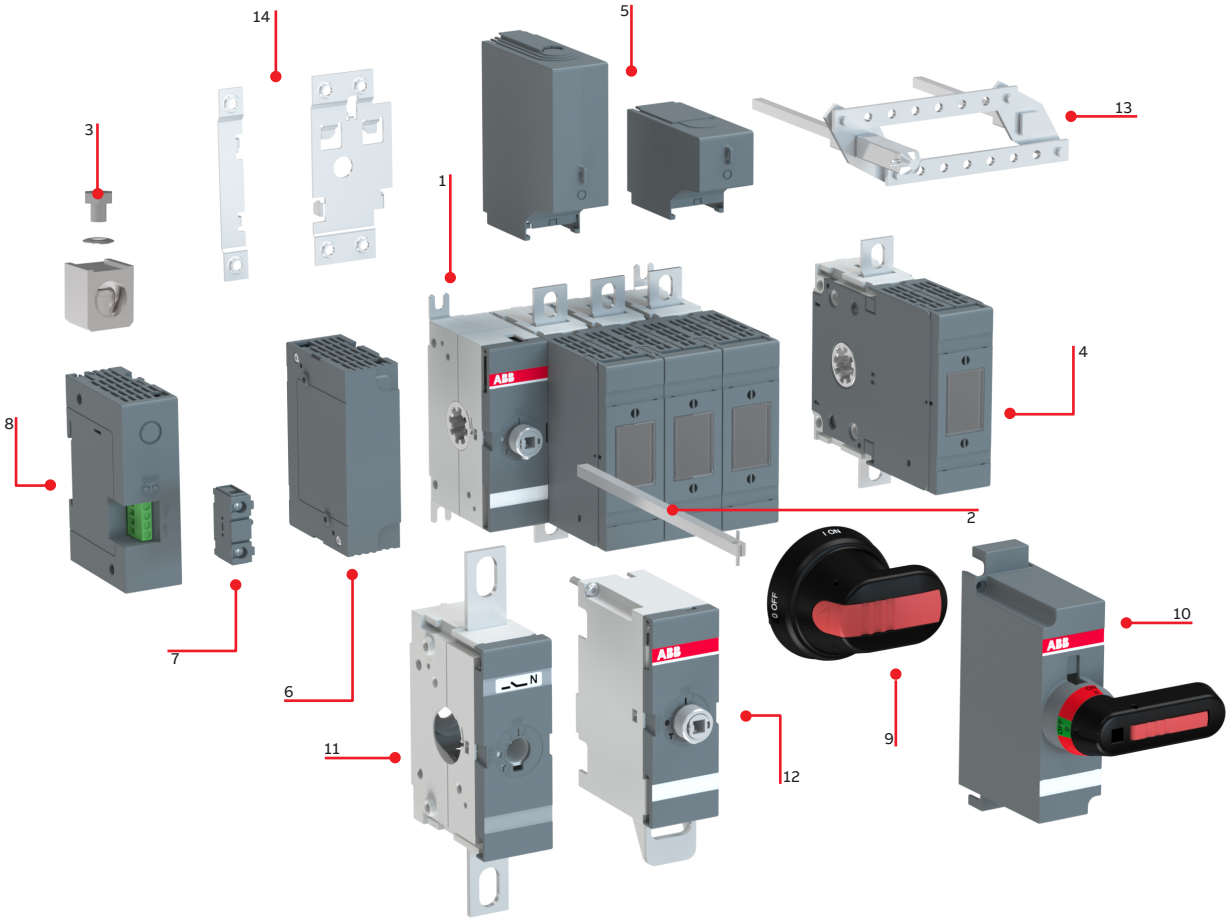


1) Lugs for OS30FA_ and OS60GJ_ switches are integral

Manual operated fusible disconnect switches 100...1200
Selection overview

Accessory guide for OS100...1200

1. Fusible disconnect switch
2. Shaft
3. Lugs
4. Fourth pole
5. Terminal shroud
6. Module for auxiliary contact
7. Auxiliary contact
8. Fuse monitor
9. Pistol handle
10. Direct mount handle
11. Detachable neutral link
12. Electrical interlock
13. Conversion kit
14. DIN rail mounting kit



Manual operated fusible disconnect switches, UL/CSA
Ordering information for CC and J types, 30 A


OS30FACC12

Manual operated fusible disconnect switches, CC and J types, 30 A
Protected tunnel terminals, IP20, cable size 0.5...10mm², (AWG 18 - 8). Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = OS Mini range fusible disconnect switch 30 Amperes

F = Switches fusible neutral

Front Operated

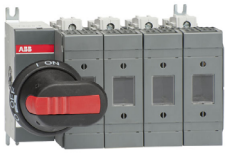
Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
30	CC, 30 A	3	OS30FACC12
30	CC, 30 A	4	OS30FACC22F
30	J, 30 A	3	OS30FAJ12
630	J, 30 A	4	OS30FAJ22F
With 150mm shaft and external handle OHB65J6			
30	CC, 30 A	3	OS30FACC12P
30	J, 30 A	3	OS30FAJ12P
30	J, 30 A	4	OF30FAJ22FP

Side Operated

Shaft and handle not included			
30	CC, 30 A	3	OS30FACCS30
30	J, 30 A	3	OS30FAJS30

Manual operated fusible disconnect switches, UL/CSA
Ordering information for J type, 60 A


OS60GJ03P


OS60GJ04FP


OS60GJS40F


OS60GJS30K

Manual operated fusible disconnect switches, J type, 60 A
Protected tunnel terminals, IP20, cable size 2.5...25mm², (AWG 14 - 4). Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

G = OS Gamma range fusible disconnect switch 60 Amperes

F = Switches fusible neutral

Front Operated

Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
60	J, 60 A	2	OS60GJ02
60	J, 60 A	3	OS60GJ03
60	J, 60 A	4	OS60GJ04F
With 161mm shaft and external handle OHB65J6			
60	J, 60 A	2	OS60GJ02P
60	J, 60 A	3	OS60GJ03P
60	J, 60 A	4	OS60GJ04FP
With direct mount handle OSV200BK			
60	J, 60 A	2	OS60GJ02K
60	J, 60 A	3	OS60GJ03K
60	J, 60 A	4	OS60GJ04FK

Side Operated

Shaft and handle not included			
60	J, 60 A	3	OS60GJS30
60	J, 60 A	4	OS60GJS40F
With direct mount handle OHB65D6			
60	J, 60 A	3	OS60GJS30K
60	J, 60 A	4	OS60GJS40FK

Manual operated fusible disconnect switches, UL/CSA
Ordering information for J type, 100 A


OS100GJ03P


OS100GJ04FP


OS100GJS30

Manual operated fusible disconnect switches, J type, 100 A
Protected tunnel terminal bolt set M8X25. Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

G = OS Gamma range fusible disconnect switch 100 Amperes

F = Switches fusible neutral

Front Operated

Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
100	J, 100 A	2	OS100GJ02
100	J, 100 A	3	OS100GJ03
100	J, 100 A	4	OS100GJ04F
With 161mm shaft and external handle OHB65J6			
100	J, 100 A	2	OS100GJ02P
100	J, 100 A	3	OS100GJ03P
100	J, 100 A	4	OS100GJ04FP
With direct mount handle OSV200BK			
100	J, 100 A	2	OS100GJ02K
100	J, 100 A	3	OS100GJ03K
100	J, 100 A	4	OS100GJ04FK

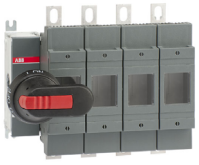
Side Operated

Shaft and handle not included			
100	J, 100 A	3	OS100GJS30
100	J, 100 A	4	OS100GJS40F
With direct mount handle OHB65D6			
100	J, 100 A	3	OS100GJS30K
100	J, 100 A	4	OS100GJS40FK

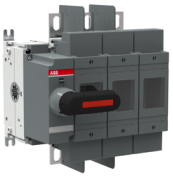
Manual operated fusible disconnect switches, UL/CSA
Ordering information for J type, 200 A


OS200J02P


OS200J02P


OS200J04FP


OS200J02K


OS200J03K

Manual operated fusible disconnect switches, J type, 200 A
Protected tunnel terminal bolt set M8X25. Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

G = OS Gamma range fusible disconnect switch 100 Amperes

F = Switches fusible neutral

Front Operated

Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
200	J, 200 A	2	OS200J02
200	J, 200 A	3	OS200J03
200	J, 200 A	4	OS200J04F
With 161mm shaft and external handle OHB80J6			
200	J, 200 A	2	OS200J02P
200	J, 200 A	3	OS200J03P
200	J, 200 A	4	OS200J04FP
With direct mount handle OSV200BK			
200	J, 200 A	3	OS200J03K

Side Operated

Shaft and handle not included			
200	J, 200 A	3	OS200GJS30
200	J, 200 A	4	OS200GJS40F
With direct mount handle OHB65D6			
200	J, 200 A	3	OS200GJS30K
200	J, 200 A	4	OS200GJS40FK

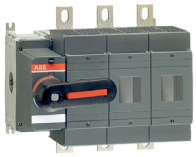
Manual operated fusible disconnect switches, UL/CSA
Ordering information for J type, 400 A


OS400J03P

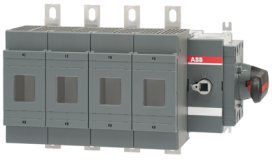

OS400J04FP


OS400J02P


OS400J04FP


OS400J03K


OS400J03P


OS400JS40FK

Manual operated fusible disconnect switches, J type, 400 A
Protected tunnel terminal bolt set M10X40. Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = Switches fusible neutral

Front Operated

Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
400	J, 400 A	2	OS400J02
400	J, 400 A	3	OS400J03
400	J, 400 A	4	OS400J04F
With 250mm shaft and external handle OHB95J12			
400	J, 400 A	2	OS400J02P
400	J, 400 A	3	OS400J03P
400	J, 400 A	4	OS400J04FP
With direct mount handle OSV200BK			
400	J, 400 A	3	OS400J03K

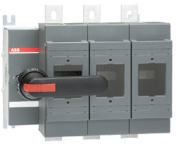
Side Operated

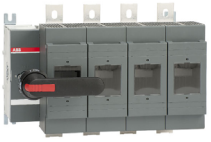
Shaft and handle not included			
400	J, 400 A	3	OS400JS30
400	J, 400 A	4	OS400JS40F
With direct mount handle OHB95D12			
400	J, 400 A	3	OS400JS30K
400	J, 400 A	4	OS400JS40FK

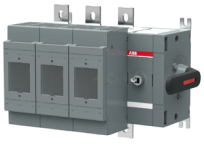
Manual operated fusible disconnect switches, UL/CSA
Ordering information for J type, 600 A


OS600J02P


OS600J02P


OS600J03P


OS600J04FP


OS600JS30K

Manual operated fusible disconnect switches, J type, 600 A
Included terminal bolt set M8X25. Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

F = Switches fusible neutral

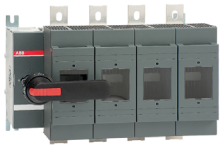
Front Operated

Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
600	J, 600 A	2	OS600J02
600	J, 600 A	3	OS600J03
600	J, 600 A	4	OS600J04F
With 250mm shaft and external handle OHB145J12			
600	J, 600 A	2	OS600J02P
600	J, 600 A	3	OS600J03P
600	J, 600 A	4	OS600J04FP
With direct mount handle OSV200BK			
600	J, 600 A	3	OS600J03K

Side Operated

Shaft and handle not included			
600	J, 600 A	3	OS600JS30
600	J, 600 A	4	OS600JS40F
With direct mount handle OHB95D12			
600	J, 600 A	3	OS600JS30K
600	J, 600 A	4	OS600JS40FK

Manual operated fusible disconnect switches, UL/CSA
Ordering information for L type, 800...1200 A


OS800L04FP

Manual operated fusible disconnect switches, L type, 800...1200 A
Included terminal bolt set M8X25. Mechanism at the end of the switch. The handle in NEMA 1, 3R, 12 protected, padlockable in the OFF-position and with door interlock in the ON-position.

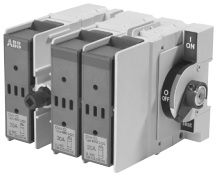
F = Switches fusible neutral

Front Operated

Rated current [A]	Fuse size	Number of poles	Type
Shaft and handle not included			
800	L, 800 A	2	OS800L02
800	L, 800 A	3	OS800L03
800	L, 800 A	4	OS800L04F
1200	L, 1200 A	2	OS1200L02
1200	L, 1200 A	3	OS1200L03
1200	L, 1200 A	4	OS1200L04F
With 280mm shaft and external handle OHB145J12			
800	L, 800 A	2	OS800L02P
800	L, 800 A	3	OS800L03P
800	L, 800 A	4	OS800L04FP
With 395mm shaft and external handle OHB274J12			
1200	L, 1200 A	2	OS1200L02P
1200	L, 1200 A	3	OS1200L03P
1200	L, 1200 A	4	OS1200L04FP

Special configurations

Side operated, 30 - 600 A, UL fuse class CC and J



Switch OS_

+



Handle OH_J_

+



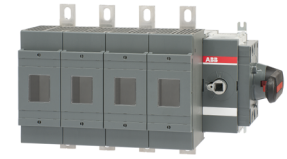
Shaft OXP_X_



OS60GJS30



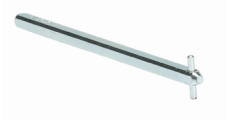
OS100GJS30



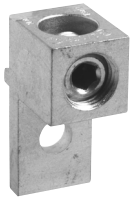
OS400JS40FK



OHY65J6E00S



OXP6X_



OSX4-24

Side operated fusible disconnects - 3 poles and 4 poles

UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating Three phase 200V	208V	240V	480V	600V	Weight (Lbs.)	Catalog number
30	J	5	7.5	7.5	15	20	1.54	OS30FAJS30
30	CC	5	7.5	7.5	15	20	1.54	OS30FACCS30
60	J	15	15	15	30	50	3.52	OS60GJS30
100	J	25	25	30	60	75	3.97	OS100GJS30
200	J	–	–	60	125	150	1.54	OS200JS30
400	J	–	–	125	250	350	1.54	OS400JS30
600	J	–	–	200	400	500	3.52	OS600JS30
60	J	–	–	15	30	50	3.97	OS60GJS40F
100	J	25	25	30	60	75	3.52	OS100GJS40F
200	J	–	–	60	125	150	3.97	OS200JS40F
400	J	–	–	125	250	350	1.54	OS400JS40F
600	J	–	–	200	400	500	1.54	OS600JS40F

Side operated fusible disconnects with direct mount handle - 3 poles and 4 poles

UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating Three phase 200V	208V	240V	480V	600V	Weight (Lbs.)	Catalog number
60	J	15	15	15	30	50	3.52	OS60GJS30K
100	J	25	25	30	60	75	3.97	OS100GJS30K
200	J	–	–	60	125	150	1.54	OS200JS30K
400	J	–	–	125	250	350	1.54	OS400JS30K
600	J	–	–	200	400	500	3.52	OS600JS30K
60	J	15	15	15	30	50	3.52	OS60GJS40FK
100	J	25	25	30	60	75	3.97	OS100GJS40FK
200	J	–	–	60	125	150	1.54	OS200JS40FK
400	J	–	–	125	250	350	1.54	OS400JS40FK
600	J	–	–	200	400	500	3.52	OS600JS40FK

Handles

UL/NEMA type	IEC type	Color	Lenght (inches/mm)	Marking	Defeatable	Padlockable	Weight	Catalog number
For use with OS30FA_S_, OS60GJS_ OS100GJS_ OS200JS								
1, 3R, 12	IP65	Black Red/Yel	2.6/65	OFF/ON	Yes	Yes	0.29	OHB65J6E00S OHY65J6E00S
For use with OS400JS_ and OS600JS_								
1, 3R, 12	IP65	Black Red/Yel	5.71/145	OFF/ON	Yes	Yes	0.35	OHB145J12E00S OHY145J12E00S

Shaft

For use with:	Lenght (Inches/mm)	Description	Weight(Lbs)	Catalog number
OS30FA_S_, OS60GJS_	6.7/170	.24 X .24 (6 X 6mm)	0.08	OXP6X170
OS100GJS_, OS200JS_	8.3/210	.24 X .24 (6 X 6mm)	0.10	OXP6X210
OS400JS_, OS600JS_	7.28/185	.48 X .48 (12 X 12mm)	0.44	OXP12X185

Terminal lug kits

For use with:	Wire size	Weight	Wire type	Lugs per kit	Catalog number
OS30FA_S_	#18 - 8	–	Cu	–	Integral
OS60GJS_	#14 - 4	–	Cu	–	Integral
OS100GJS_	#14 - 2/0	0.43	Cu/Al	6	OZXA-24
OS200_		0.50	Cu/Al	6	OZXA-200
OS400_		0.50	Cu/Al	6	OZXA-400
OS600_		0.50	Cu/Al	6	OZXA-800

Special configurations

Shaft operated flange, fusible disconnect switch 30 - 100 A


Switch

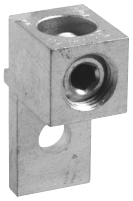
+


Handle

+


Shaft

+

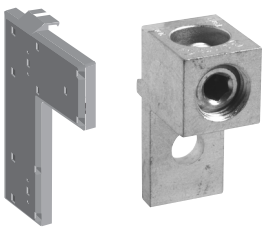

Lug kit


OS30FAJ_


DSFHN-HS_




DSFHS-_


OSZ4 OSZ4-24


OA1G_

Side operated fusible disconnects - 3 poles and 4 poles

UL general purpose amp rating A	UL fuse type 600V	Maximum horsepower rating Three phase 240V	480V	600V	Catalog number
30	J	7.5	15	20	OS30FAJF30
30	CC	7.5	15	20	OS30FACCF30
60	J	15	30	50	OS60GJF30
100	J	30	60	75	OS100GJF30

Handles

UL/NEMA type	Marking	Defeatable	Padlockable	Catalog number
1, 3R, 12	OFF/ON	No	Yes	DSFHN-HS12
4, 4X	OFF/ON	No	Yes	DSFHN-HS4

Shafts

For use with:	Maximum enclosure depth (inches)	Catalog number
OS30_ - OS100_	16	DSFHS-12
	21	DSFHS-17
	26.5	DSFHS-22

Terminal lug kits and accessories

For use on:	Description	Wire size	Wire type / additional info	Qty	Catalog number
OS30_	Lug	#18 - 8	Cu	–	Integral
OS60_	Lug	#14 - 4	Cu	–	Integral
OS100_	Lug	#14 - 2/0	Cu/Al	6	OZXA-24
OS30FA_ &	Aux. Contact	1 NO	Up to 4 aux. contacts	1	OA1G10
OS60-100G_	Aux. Contact	1 NC	2 max, mounted to the switch	1	OA3G01
OS30FA_		1 NC+1 NO	mechanism	1	OA4B1C
OS30FA_	Adapter	Needed for mounting OA_G_ aux. cont. on OS30FA		1	OSZ4
OS100GJ_	Shroud	Single Pole Long type shroud, 3 pcs Single Pole Short type shroud, 3 pcs		1	OSS160GG1L/3 OSS160GG1S/3

Flange operated fusible and non-fusible disconnect switches

ABB's solutions comply with NFPA79 requirements for Flange Operated Fusible and Non-fusible Disconnect Switches.

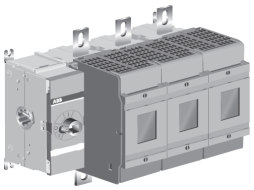
NFPA 79 requires main disconnecting means to be operable without the use of accessory tools or devices, independent of door position. This code also includes an interlocking provision to prevent the closing of disconnects while the enclosure door is open, unless an interlock is operated by a deliberate action.

The flange operated disconnect switches are available as ridged shaft or flexible cable operated version allows you to install the disconnect switch virtually anywhere in the enclosure depending on the length of the cable. Cables are available in lengths up to 84 inches.

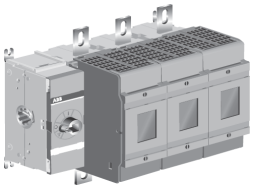
The designs are cost-effective NFPA 79 solutions offering quick and easy installation.

Special configurations

Cable operated flange, fusible disconnect switch 30 - 1200 A



Switch



OS200J30



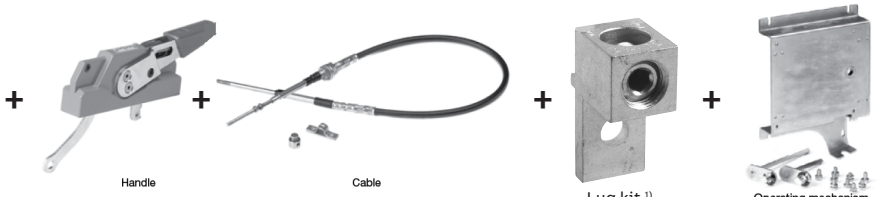
OHF1C_



OXC1L_



MKCS_



Fusible

UL general purpose amp rating	UL fuse type 600V	Catalog number
30	J	OS30FAJ12
30	CC	OS30FACC12
60	J	OS60GJ30
100	J	OS100GJ30
200	J	OS200J30
400	J	OS400J30-FC 2)
600	J	OS600J30-FC 2)
800	L	OS800L30-FC 2)
1200	L	OS1200L30-FC 2)

Flange handles - ul98; File #E101914

For use with:	Environmental rating	Catalog number
OS30FA_12, OS60GJ_, OS100GJ_, OS200J_	NEMA 1, 3R, 12	OHF1C12
	NEMA 4, 4X	OHF1C4
OS400J30-FC	NEMA 1, 3R, 12	K7FCH
OS600J30-FC, OS800L30-FC, OS1200L30-FC	NEMA 1, 3R, 12	K8FCH
	NEMA 4, 4X	K8FCH4

Flexible cables 2)

For use with:	Cable length (inches)	Catalog number
OS30FA_12, OS60GJ_, OS100GJ_, OS200J_	36	OXC1L36
	48	OXC1L48
	60	OXC1L60
	72	OXC1L72
	84	OXC1L84
OS400J30-FC, OS600J30-FC, OS800L30-FC, OS1200L30-FC	48	K7C048
	60	K7C060
	72	K7C072
	84	K7C084
	96	K7C096

Operating mechanisms

For use with:	Catalog number
OS30FA_12	MKCS2
OS60GJ30	MKCS3
OS100GJ30, OS200J30 2)	MKCS4
OS400J30-FC - OS800L30-FC, OS1200L30-FC	Included

1) For 100 A and above, OS30FA…60GJ_ come with internal lugs.
2) Cable can not be cut and resized.

Special configurations

Shaft operated flange, accessories
30 - 1200 A



OZXA-200

Terminal lug kits

For use with:	Wire size	Wire type	Description	Lugs per kit	Catalog number
OS100GJ_	#4 - 300 kcmil	Cu/Al	–	6	OZXA-24
OS200J_	#4 - 300 kcmil	Cu	–	6	OZXA-200
OS400J_	#2 - 600 kcmil	Cu/Al	–	6	OZXA-400
OS600J_ - OS800L_	(2) #2 - 600 kcmil	Cu/Al	–	6	OZXA-800
OS1200L_	(4) #2 - 600 kcmil	Cu/Al	–	6	OZXA-1200



OSS_L_

Terminal shrouds

For use on:	Description	For full protection order	Weight (lbs)	Catalog number
OS100GJ_	Single Pole long type shroud, 3 pcs	2 kits	0.17	OSS160GG1L/3
OS100GJ_	Single Pole short type shroud, 3 pcs	2 kits	0.11	OSS160GG1S/3
OS200J_	Single Pole long type shroud, 3 pcs	2 kits	0.20	OSS200G1L/3
OS200J_	Single Pole short type shroud, 3 pcs	2 kits	0.13	OSS200G1S/3
OS400J_	3 pole shroud, 1 pc	2 kits	0.13	OSS403-FC
OS600J_	3 Pole Terminal Shrouds	2 kits	0.13	OSS603-FC
OS800L_	3 Pole Terminal Shrouds	2 kits	0.13	OSS803-FC
OS1200L_	3 Pole Terminal Shrouds	2 kits	0.13	OSS1203-FC



OSS_S_



OSS_03

Fusible disconnect switches, UL/CSA
Technical data for OS30…200

			A	OS 30	OS_ 60G	OS_ 100G	OS_ 200
Approvals			2 pole		UL98, IEC	UL98, IEC	UL98, IEC
			3 pole	UL98, IEC	UL98, IEC	UL98, IEC	UL98, IEC
			4 pole	UL98, IEC	UL98, IEC	UL98, IEC	UL98, IEC
Technical data according to UL/CSA							
General purpose amp rating	pf=0.7…0.8	up to 40°C	A	30	60	100	200
Max. operating voltage			VAC	600	600	600	600
			VDC		250	250	250
Max. horsepower rating/motor FLA current	pf=0.4…0.5 Three phase	240 V	HP/A	7.5/22.0	15/42.0	30/80.0	60/154.0
		480 V	HP/A	15/21.0	30/40.0	60/77.0	125/156.0
		600 V	HP/A	20/22.0	50/52.0	75/77.0	150/144.0
	Single phase	120 V	HP/A	2/24.0			
		240 V	HP/A	3/17.0			
Short circuit rating with fuse, 3 and 4-pole types	UL/CSA fuse size		kA	200	200	200	200
	UL/CSA fuse type		A	30	60	100	200
				J/CC	J	J	J
Min. electrical endurance	pf=0.75…0.8	operation cycles		6000	6000	6000	6000
Terminal lug kits				Integral	Integral	OZXA-24	OZXA-200
			AWG	#18-8	#14-4	#14-4-2/0	#4-300MCM
Torque	Wire tightening		lb.in	17	30/35	120	275
	Lug mounting		lb.in	N/A	N/A	50	72
Technical data according to IEC 60947-3							
Rated insulation	Pollution degree 3	50 Hz 1min.	V	1000	1000	1000	1000
Dielectric strength			kV	10	10	10	10
Rated impulse withstand voltage			kV	12			12
Rated thermal current in ambient 40°C /	In open air		A/W	32/3.5	63/7.5	160/12	200/17
max. fuse power dissipation	In enclosure		A/W	32/33.5	63/7.5	160/10,135/12	200/15
…with minimum cable cross section		Cu	mm²	6	16	70	95
Derating, mounting on wall horizontal fuses	In open air or ventilated enclosure		%	0	0	0	0
	Totally enclosed		%	5	5	5	5
Derating, mounting on ceiling			%	10	10	10	10
Derating at 60°C	In open air / in enclosure		%	20/20	20/20	20/20	20/20
Power loss / pole	With rated current, without fuse		W	2	4	9	8
Rated operational current AC-23A		Up to 500 V	A	32	63	160	200
		690 V	A	32	63	160	200
Rated operational power AC-23	The kW-ratings are	230 V	kW	7.5	18.5	45	60
	accurate for three-phase	400 V	kW	15	30	75	110
	1500 R.P.M standard	415 V	kW	15	30	75	110
	asychronous motors.	500 V	kW	18.5	37	90	132
		690 V	kW	22	55	132	200
Rated breaking capacity in category AC-23		up to 500 V	A	256	504	1280	1600
		690 V	A	256	504	1280	1600
Rated short-time withstand current, 1s.	r.m.s. -value		kA	1	2.5	5	8
Built-in terminal size		Cu	mm²	0.75…10	2.5…25		
Fuse-links bolts tightening torque						4	4

Fusible disconnect switches, UL/CSA
Technical data for OS400…1200

			A	OS 400	OS_ 600	OS_ 800	OS_ 1200
Approvals			2 pole	–	UL98, IEC	UL98, IEC	UL98, IEC
			3 pole	UL98, IEC	UL98, IEC	UL98, IEC	UL98, IEC
			4 pole	UL98, IEC	UL98, IEC	UL98, IEC	UL98, IEC

Technical data according to UL/CSA

General purpose amp rating	pf=0.7…0.8	up to 40°C	A	400	600	800	1200
Max. operating voltage			VAC	600	600	600	600
			VDC	250	250	250	250
Max. horsepower rating/motor FLA current	pf=0.4…0.5	240 V	HP/A	125.0/312.0	200/480.0	250/602.0	
	Three phase	480 V	HP/A	250.0/302.0	400/477.0	500/590.0	
		600 V	HP/A	350.0/336.0	500/472.0	500/472.0	
	Single phase	120 V	HP/A				
		240 V	HP/A				
Short circuit rating with fuse,	UL/CSA fuse size		kA	200	200	200	200
3 and 4-pole types	UL/CSA fuse type		A	400	600	800	1200
				J	J	L	L
Min. electrical endurance	pf=0.75…0.8	operation cycles		1000	1000	500	500
Terminal lug kits				OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Wire range			AWG	#2-600MCM	(2)#2-600MCM	(2)#2-600MCM	(4)#2-600MCM
Torque	Wire tightening		lb.in	375	500	500	500
	Lug mounting		lb.in	240	480	480	480

Technical data according to IEC 60947-3

Rated insulation	Pollution degree 3	50 Hz 1min.	V	1000	1000	1000	1000
Dielectric strength			kV	10	10	10	10
Rated impulse withstand voltage			kV	12	12	12	12
Rated thermal current in ambient 40°C /	In open air		A/W	400/45	630/60	800/65	1250/110
max. fuse power dissipation	In enclosure		A/W	400/30	570/50	720/55	1000/85
…with minimum cable cross section		Cu	mm²	240	2x185	2x240	2x400
Derating, mounting on	In open air or ventilated enclosure		%	0	0	4	4
wall horizontal fuses	Totally enclosed		%	5	5	8	8
Derating, mounting on ceiling			%	10	10	10	10
Derating at 60°C	In open air / in enclosure		%	20/20	20/20	20/20	20/20
Power loss / pole	With rated current, without fuse		W	30	46	75	75
Rated operational current AC-23A		Up to 500 V	A	400	630	800	1000
		690 V	A	400	630	800	1000
Rated operational power AC-23	The kW-ratings are	230 V	kW	132	200	250	315
	accurate for three-	400 V	kW	220	355	450	560
	phase 1500 R.P.M	415 V	kW	230	355	450	560
	standard	500 V	kW	280	450	560	710
	asychronous motors.	690 V	kW	400	630	710	1000
Rated breaking capacity in category AC-23		up to 500 V	A	3200	6400	6400	8000
		690 V	A	3200	6400	6400	8000
Rated short-time withstand current, 1s.	r.m.s. -value		kA	14	20	20	
Built-in terminal size		Cu	mm²				
Fuse-links bolts tightening torque			Nm	20	40	40	40

Enclosed fusible & non fusible disconnect switches

Enclosed non fusible & fusible disconnect switches
Enclosed non-fusible disconnect switch 4/3
Accessories enclosed non-fusible disconnect switch 4/6
Enclosed fusible disconnect switch 4/7
Accessories enclosed fusible disconnect switch 4/10

Enclosed manual motor controllers
16A - 80A



NF321-3P



EOT16U3P3-S



EOT16U4P3-P

3 Pole, 600V, 16A – 80A — CSA C22.2 No. 14 enclosed manual motor controllers

Metal Enclosure type

			1		12		4		4X Stainless	
CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
20	10	10	NF161-3S		NF162-3S		—		—	
20	10	10	NF161-3P		NF162-3P		NF164-3P		NF16X-3P	
40	20	20	NF321-3S		NF322-3S		—		—	
40	20	20	NF321-3P		NF322-3P		NF324-3P		NF32X-3P	
60	30	30	NF451-3S		NF452-3S		—		—	
60	30	30	NF451-3P		NF452-3P		NF454-3P		NF45X-3P	
80	40	40	NF631-3S		NF632-3S		—		—	
80	40	40	NF631-3P		NF632-3P		NF634-3P		NF63X-3P	

Plastic Enclosure type, approved cULus, enclosed manual motor controller

			3R, 12				4, 4X, 12			
CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	Catalog number	Aux. contact	Handle Type	List price	Catalog number	Aux. contact	Handle Type	List price
20	10	10	EOT16U3P3-1S	1NO	Selector		EOT16U3P4-1P	1NO	Pistol	
20	10	10	EOT16U3P3-S	—	Selector		EOT16U3P4-P	—	Pistol	
40	20	25	EOT32U3P3-1S	1NO	Selector		EOT32U3P4-1P	1NO	Pistol	
40	20	25	EOT32U3P3-S	—	Selector		EOT32U3P4-P	—	Pistol	
60	30	30	EOT45U3P3-1S	1NO	Selector		EOT45U3P4-1P	1NO	Pistol	
60	30	30	EOT45U3P3-S	—	Selector		EOT45U3P4-P	—	Pistol	
80	40	40	—	—	—		EOT63U3P4-1P	1NO	Pistol	
80	40	40	—	—	—		EOT63U3P4-P	—	Pistol	

EOT_ switches are not approved cULus for DC applications

Accessories for eOT16 to eOT63

Auxiliary contacts *Maximum number of auxiliary contacts 2NO + 1NC

AC rated voltage	Description	AC amp rating	Catalog number	List price
600	NO, mounts on right side of the switch only	10	OA1G10	
600	NC, mounts on left side of the switch only	10	OA1G01	
4th poles for eOT16 and eOT32* Only one additional pole per switch				
600	4th pole	40	OTPS40FPN*	
600	4th pole, late break / early-make function	40	OTPL40FP	
4th poles for eOT45* and eOT63* Only one additional pole per switch				
600	4th pole	80	OTPS80FP	
600	4th pole, late-break / early-make function	80	OPTL80FP	

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle by adding the “S1” (for selector handle) or P1 (for pistol handle) suffix to the end of the catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.
EXAMPLE: A red/yellow selector handle for an NF161-3S can be substituted for the black selector handle by using the «S1» suffix at the end, new catalog NF161-3S1.

Enclosed non-fusible disconnect switches
16A - 1200A


NF301-3P


NF1001-3P


NF2001-3P

3 Pole, 600V, 30A – 2000A — CSA C22.2 No. 4 enclosed switches



Metal Enclosure type

			1		12		4		4X Stainless	
CSA C22.2 No. 4 amp rating	HP 480V	HP 600V	Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
30	20	30	NF301-3P		NF302-3P		NF304-3P		NF30X-3P	
60	40	40	NF601-3P		NF602-3P		NF604-3P		NF60X-3P	
100	50	50	NF1001-3P		NF1002-3P		NF1004-3P		NF100X-3P	
200	150	200	NF2001-3P		NF2002-3P		NF2004-3P		NF200X-3P	
400	250	350	NF4001-3P		NF4002-3P		NF4004-3P		NF400X-3P	
600	400	500	NF6001-3P		NF6002-3P		NF6004-3P		NF600X-3P	
800	500	500	NF8001-3P		NF8002-3P		NF8004-3P		NF800X-3P	
1200	—	—	NF12001-3P		NF12002-3P		NF12004-3P		NF1200X-3P	

3 Pole, 600V, 20A – 80A — approved cULus, enclosed manual motor controller

Plastic Enclosure type

			Metal enclosure Nema 1			Metal enclosure Nema 3R, 12			Stainless steel Nema 4, 4X		
CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	Catalog number	Handle Type	List price	Catalog number	Handle Type	List price	Catalog number	Handle Type	List price
20	10	10	EOT16U3M1-P	Pistol		EOT16U3M3-P	Pistol		EOT16U3S4-P	Plastic pistol	
20	10	10	EOT16U3M1-S	Selector		EOT16U3M3-S	Selector		EOT16U3S4-M	SS Pistol	
40	20	25	EOT32U3M1-P	Pistol		EOT32U3M3-P	Pistol		EOT32U3S4-P	Plastic pistol	
40	20	25	EOT32U3M1-S	Selector		EOT32U3M3-S	Selector		EOT32U3S4-M	SS Pistol	
60	30	30	EOT45U3M1-P	Pistol		EOT45U3M3-P	Selector		EOT45U3S4-P	Plastic pistol	
60	30	30	EOT45U3M1-S	Selector		EOT45U3M3-S	Pistol		EOT45U3S4-M	SS Pistol	
80	40	40	EOT63U3M1-P	Pistol		EOT63U3M3-P	Selector		EOT63U3S4-P	Plastic pistol	
80	40	40	EOT63U3M1-S	Selector		EOT63U3M3-S	Pistol		EOT63U3S4-M	SS Pistol	

3 Pole, 600V, 30A – 100A — approved cULus

Plastic Enclosure type

			Metal enclosure Nema 1			Metal enclosure Nema 3R, 12			Stainless steel Nema 4, 4X		
CSA C22.2 No. 4 amp rating	HP 480V	HP 600V	Catalog number	Handle Type	List price	Catalog number	Handle Type	List price	Catalog number	Handle Type	List price
30	20	30	EOT30U3M1-P	Pistol		EOT30U3M3-P	Pistol		EOT30U3S4-P	Plastic Pistol	
60	40	40	EOT60U3M1-P	Pistol		EOT60U3M3-P	Pistol		EOT60U3S4-P	Plastic Pistol	
100	50	50	EOT100U3M1-P	Pistol		EOT100U3M3-P	Pistol		EOT100U3S4-P	Plastic Pistol	
30	20	30	EOT30U3M1-S	Selector					EOT30U3S4-M	SS Pistol	
60	40	40	EOT60U3M1-S	Selector							
100	50	50	EOT100U3M1-S	Selector							

EOT_ switches are not approved cULus for DC applications

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle by adding the "S1" (for selector handle) or P1 (for pistol handle) suffix to the end of the catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.
EXAMPLE: A red/yellow pistol handle for an NF301-3P can be substituted for the black pistol handle by using the «P1» suffix at the end, new catalog NF301-3P1.

Enclosed non-fusible disconnect switches [1) 2)]

30 - 1200A

Enclosure type

CSA C22.2 No.4 General purpose amp rating	Option	1 Catalog number	List price	12 Catalog number	List price	4 Catalog number	List price	4X Stainless Catalog number	List price
30	4 pole switch	NF301-4P		NF302-4P		NF304-4P		NF30X-4P	
	6 pole switch	NF301-6P		NF302-6P		NF304-6P		NF30X-6P	
	Transfer switch	NF301-3T		NF302-3T		NF304-3T		NF30X-3T	
60	4 pole switch	NF601-4P		NF602-4P		NF604-4P		NF60X-4P	
	6 pole switch	NF601-6P		NF602-6P		NF604-6P		NF60X-6P	
	Transfer switch	NF601-3T		NF602-3T		NF604-3T		NF60X-3T	
100	4 pole switch	NF1001-4P		NF1002-4P		NF1004-4P		NF100X-4P	
	6 pole switch	NF1001-6P		NF1002-6P		NF1004-6P		NF100X-6P	
	Transfer switch	NF1001-3T		NF1002-3T		NF1004-3T		NF100X-3T	
200	2 pole switch	NF2001-2P		NF2002-2P		NF2004-2P		NF200X-2P	
	4 pole switch	NF2001-4P		NF2002-4P		NF2004-4P		NF200X-4P	
	6 pole switch	NF2001-6P		NF2002-6P		NF2004-6P		NF200X-6P	
	Transfer switch	NF2001-3T		NF2002-3T		NF2004-3T		NF200X-3T	
400	2 pole switch	NF4001-2P		NF4002-2P		NF4004-2P		NF400X-2P	
	4 pole switch	NF4001-4P		NF4002-4P		NF4004-4P		NF400X-4P	
	6 pole switch	NF4001-6P		NF4002-6P		NF4004-6P		NF400X-6P	
	Transfer switch	NF4001-3T		NF4002-3T		NF4004-3T		NF400X-3T	
600	2 pole switch	NF6001-2P		NF6002-2P		NF6004-2P		NF600X-2P	
	4 pole switch	NF6001-4P		NF6002-4P		NF6004-4P		NF600X-4P	
	Transfer switch	NF6001-3T		NF6002-3T		NF6004-3T		NF600X-3T	
800	2 pole switch	NF8001-2P		NF8002-2P		NF8004-2P		NF800X-2P	
	4 pole switch	NF8001-4P		NF8002-4P		NF8004-4P		NF800X-4P	
	Transfer switch	NF8001-3T		NF8002-3T		NF8004-3T		NF800X-3T	
1200	2 pole switch	NF12001-2P		NF12002-2P		NF12004-2P		NF1200X-2P	
	4 pole switch	NF12001-4P		NF12002-4P		NF12004-4P		NF1200X-4P	
940 [3)]	Transfer switch	NF12001-3T		NF12002-3T		NF12004-3T		NF1200X-3T	



Accessories for eOT16 to eOT63

Auxiliary contacts *Maximum number of auxiliary contacts 2NO + 1NC

Plastic Enclosure type

CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	3R, 12 Catalog number	Terminal wire size	Lug wire type
20	10	10	NF163-3	#18 - #8	CU
40	20	25	NF403-3	#18 - #8	CU
60	30	30	NF603-3	#14 - #1	CU
80	40	40	NF803-3	#14 - #1	CU

1) Please consult ABB sales office for additional information.
2) ⫴ = Three poles
3) OT1200U_C is not UL approved product. It is cURus recognized product for 940A @600Vac.

Accessories
for enclosed non-fusible disconnect switches

Auxilliary contacts

For use on:	Contact configuration	Installation suffix	Installed list price adder
16A - 100A	1 N.O.	add "10" suffix	
	1 N.C.	add "01" suffix	
	1 N.O. & 1 N.C.	add "11" suffix	
200A - 1200A	1 N.O & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	

Accessories [1) 2)]

For use on:	Description	Installation suffix	Installed list price adder
30A - 100A	Neutral block	N	
200A	Neutral block	N	
400A	Neutral block	N	
600A	Neutral block	N	
800A	Neutral block	N	
1200A	Neutral block	N	

Ground lugs

All enclosed switches are provided with a standard integral ground lug.

Switch size	Ground lug Wire size
16A 100A	(2) #14
200A - 400A	#6 - 250 mcm
600A - 1200A	#2 - 600 mcm

Switch ratings, 20 - 1200 Amps, 600V

CSA General purpose amp rating	Maximum horsepower rating						Wire size for terminal lugs	For wire type	Approval
	Single phase		Three phase						
	120V	240V	200V - 208V	240V	480V	600V			
20	1	2	3	5	10	10	#18 - #8	Cu	CSA [1)]
40	2	5	10	10	20	25	#18 - #8	Cu	CSA [1)]
60	2	7.5	20	20	40	40	#14 - #4	Cu	CSA [1)]
80	2	10	20	20	40	40	#14 - #4	Cu	CSA [1)]
30	2	5	10	10	20	30	#14 - #4	Cu	CSA [2)]
60	3	7.5	20	20	40	40	#14 - #4	Cu	CSA [2)]
100	5	15	25	30	50	50	#8 - 1/0	Cu	CSA [2)]
200	—	—	60	75	150	200	#4 - 300 kcmil	Cu/Al	CSA [2)]
400	—	—	100	125	250	350	#2 -600 kcmil	Cu/Al	CSA [2)]
600	—	—	150	200	450	500	(2) #2 - 600 kcmil	Cu/Al	CSA [2)]
800	—	—	200	250	500	500	(4) #2 - 600 kcmil	Cu/Al	CSA [2)]
1200	—	—	—	—	—	—	(4) #2 - 600 kcmil	Cu/Al	CSA [2)]

1) CSA C22.2 No.14
2) CSA C22.2 No.4

Enclosed fusible disconnect switches

30 - 1200A

Other configurations

Enclosure type

CSA General purpose amp rating	Option	1 Catalog number	List price	12 Catalog number	List price	4 Catalog number	List price	4X Stainless Catalog number	List price
30	4 pole switch	FJ301-4P		FJ302-4P		FJ304-4P		FJ30X-4P	
	6 pole switch	FJ301-6P		FJ302-6P		FJ304-6P		FJ30X-6P	
60	4 pole switch	FJ601-4P		FJ602-4P		FJ604-4P		FJ60X-4P	
	6 pole switch	FJ601-6P		FJ602-6P		FJ604-6P		FJ60X-6P	
100	2 pole switch	FJ1001-2P		FJ1002-2P		FJ1004-2P		FJ100X-2P	
	4 pole switch	FJ1001-4P		FJ1002-4P		FJ1004-4P		FJ100X-4P	
	6 pole switch	FJ1001-6P		FJ1002-6P		FJ1004-6P		FJ100X-6P	
200	2 pole switch	FJ2001-2P		FJ2002-2P		FJ2004-2P		FJ200X-2P	
	4 pole switch	FJ2001-4P		FJ2002-4P		FJ2004-4P		FJ200X-4P	
	6 pole switch	FJ2001-6P		FJ2002-6P		FJ2004-6P		FJ200X-6P	
400	2 pole switch	FJ4001-2P		FJ4002-2P		FJ4004-2P		FJ400X-2P	
	4 pole switch	FJ4001-4P		FJ4002-4P		FJ4004-4P		FJ400X-4P	
	6 pole switch	FJ4001-6P		FJ4002-6P		FJ4004-6P		FJ400X-6P	
600	2 pole switch	FJ6001-2P		FJ6002-2P		FJ6004-2P		FJ600X-2P	
	4 pole switch	FJ6001-4P		FJ6002-4P		FJ6004-4P		FJ600X-4P	
800	2 pole switch	FJ8001-2P		FJ8002-2P		FJ8004-2P		FJ800X-2P	
	4 pole switch	FJ8001-4P		FJ8002-4P		FJ8004-4P		FJ800X-4P	
1200	2 pole switch	FJ12001-2P		FJ12002-2P		FJ12004-2P		FJ1200X-2P	
	4 pole switch	FJ12001-4P		FJ12002-4P		FJ12004-4P		FJ1200X-4P	

Accessories
Enclosed fusible disconnect switches

Auxilliary contacts

For use on:	Contact configuration	Installation suffix	Installed list price adder
30A	1 N.O & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	
60A - 100A	1 N.O & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	
200A - 1200A	1 N.O & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	

Accessories

For use on:	Description	Installation suffix	Installed list price adder
30A - 100A	Neutral block	N	
200A	Neutral block	N	
400A	Neutral block	N	
600A	Neutral block	N	
800A	Neutral block	N	
1200A	Neutral block	N	

Ground lugs

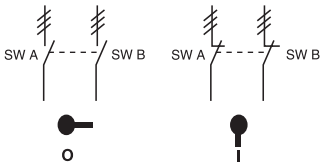
All enclosed switches are provided with a standard integral ground lug.

Switch size	Ground lug Wire size
30 - 100	(2) #14 - 4
200	#14 - 2/0
400 - 800	#6 - 300 mcm
1200	#2 - 600 mcm

Accessories
Enclosed fusible disconnect switches

Conversion mechanisms

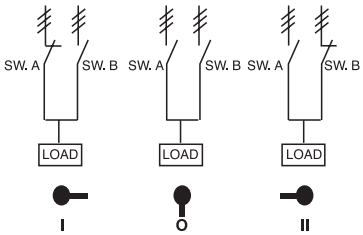
6 pole [2]
6 pole mechanism allows two switches controlled by one handle to open or close simultaneously.



	POS. O	POS.I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer [1] [2]
Transfer mechanism manually transfers between two power sources using two switches and a center «OFF» position.



	POS. I	POS.O	POS.II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

1) Transfer and bypass enclosed switches include the load side bussed or cabled together, and all switches come standard with ground lugs.
2) ⫲ = Three poles



DC disconnect switches

DC disconnect switches
Overview – OTDC switches 5/3
Overview – Type codes and pole configuration table 5/5

OTDC switches - Ordering information:
OTDC16…32, 600Vdc 5/8
OTDC16…32U_T, 600Vdc 5/11
OTDC100…245, 1000Vdc 5/13
OTDC100…245, 1000Vdc, side operated 5/15
OTDC100…200, 1500Vdc 5/16
OTDC250…400, 1000Vdc 5/17
OTDC250…600, 1000Vdc 5/18
OTDC250…600, 1500Vdc 5/21
OTDC800…1000, 1000Vdc 5/23
Technical Data, OTDC16…1000, UL 5/24

DC disconnect switches
Premium performance for DC applications

The OTDC range of disconnect switches is specially designed for DC applications. Thanks to a compact design, efficiency and reliability, OTDC switches bring photovoltaic installations to the next level.

RELIABLE IN EXTREME CONDITIONS

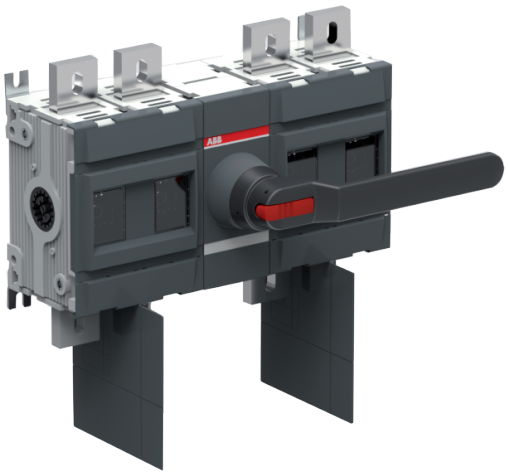
Designed for harsh environments
Solar farms are typically located in remote and inhospitable environments. The OTDC disconnect switches are designed to offer efficient and reliable performance even in high ambient temperatures and harsh environmental conditions. They are virtually maintenance-free. The unique contact design results in a lower temperature rise, making only a minimal contribution to the overall heat-rise within any enclosure. The patented dual magnetic breaking (DMB) solution in our larger OTDC 100…1000 switch-connectors results in market-leading performance and reliable switching in all applications.

EASY INSTALLATION

Compact and modular design
The smart modular design of these devices means that they are fast and easy to install in a wide variety of ways, none of which take up large amounts of space. The disconnect switches can be mounted in any direction, and thanks to their polarity independence connections can be made in both ways. Additionally, the unique modular and compact design of our smaller OTDC 16…32 disconnect switches means that the same dimensions apply to a 2-pole and 6-pole switch. These switches offer various DC voltage ratings and control of up to three circuits within the same footprint area. Three mounting options are available for easy installation in a variety of enclosure designs: door, base and DIN rail.

ENERGY EFFICIENCY

Reduced power losses
Energy efficiency and sustainability are important factors in photovoltaic energy production and distribution applications. Switches often generate considerable amounts of heat within the enclosure. The OTDC disconnect switches by ABB have a superior thermal structure, which help decrease switch power losses by up to 50%. These devices are extremely well suited for applications in high ambient temperatures. The rated currents need no derating even beyond 60ºC (140ºF). Overall these devices enable energy savings and reduced active ventilation costs, all within a smaller enclosure.



Overview of product range - OTDC Switches

Front operated disconnect switches 16...1000, UL *)

UL508i
File E4466875

Base or DIN-rail mounting



	OTDC16U2	OTDC16U4	OTDC16U6	OTDC16US2	OTDC16US4	OTDC16US6
	OTDC25U2	OTDC25U4		OTDC25US2	OTDC25US4	
		OTDC32U4			OTDC32US4	
Rated Voltage [V DC]	600	600	600	600	600	600
Rated current [A]	16 - 25	16 - 25 - 32	16	16 - 25	16 - 25 - 32	16

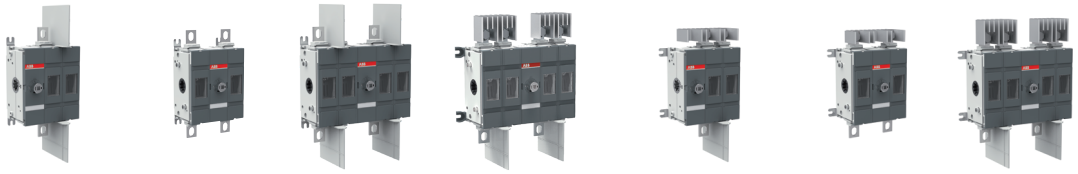
UL508i
File E4466875

Door mounting



	OTDC16UT2	OTDC16UT4	OTDC16UT6	OTDC16UST2	OTDC16UST4	OTDC16UST6
	OTDC25UT2	OTDC25UT4		OTDC25UST2	OTDC25UST4	
		OTDC32UT4			OTDC32UST4	
Rated Voltage [V DC]	600	600	600	600	600	600
Rated current [A]	16 - 25	16 - 25 - 35	16	16 - 25	16 - 25 - 32	16

UL98B
File #E354681



	OTDC100U02	OTDC100U11	OTDC100U22	OTDC100UV22	OTDC100US02	OTDC100US11	OTDC100US22
	OTDC200U02	OTDC200U11	OTDC180U22	OTDC200UV22	OTDC200US02	OTDC200US11	OTDC180US22
	OTDC245U02	OTDC245U11	OTDC200U22		OTDC245US02	OTDC245US11	OTDC200US22
Rated Voltage [V DC]	1000	1000	1000	1500	1000	1000	1000
Rated current [A]	100 - 200 - 250	100 - 200 - 250	100 - 180 - 200	100 - 200	100 - 200 - 250	100 - 200 - 250	100 - 180 - 200

UL98B
File #E354681



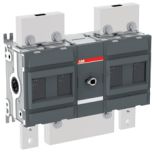
	OTDC100USV22	OTDC250UF02 OTDC250UFV02	OTDC250UF11 OTDC250UFV11	OTDC250UF22/ OTDC250UFV22	OTDC800U22
	OTDC200USV22	OTDC320UF02 OTDC320UFV02	OTDC320UF11 OTDC320UFV11	OTDC320UF22/ OTDC320UFV22	OTDC1000U22
		OTDC400UF02 OTDC400UFV02	OTDC400UF11 OTDC400UFV11	OTDC400UF22/ OTDC400UFV22	
		OTDC600UF02 OTDC600UFV02	OTDC600UF11 OTDC600UFV11	OTDC600UF22/ OTDC600UFV22	
Rated Voltage [V DC]	1500	1000/1500	1000/1500	1000/1500	1000
Rated current [A] **UL98B**	100 - 200	250 - 320 - 400 - 600	250 - 320 - 400 - 600	250 - 320 - 400 - 600	800 - 1000
IEC 60947		315 - 400 - 500 - 630	315 - 400 - 500 - 630	315 - 400 - 500 - 630	

*) All UL listed products (except side operated) are also IEC rated up to 800 A.

Overview of product range

Front operated disconnect switches 16…1000, UL *)

UL98B **File #E354681**			
			
		OTDC250UFS02 / OTDC250UFSV02	OTDC250UFS11 / OTDC250UFSV11
		OTDC320UFS02 / OTDC320UFSV02	OTDC320UFS11 / OTDC320UFSV11
		OTDC400UFS02 / OTDC400UFSV02	OTDC400UFS11 / OTDC400UFSV11
		OTDC600UFS02 / OTDC600UFSV02	OTDC600UFS11 / OTDC600UFSV11
Rated Voltage [V DC]		1000/1500	1000/1500
Rated current [A]	**UL98B**	250 - 320 - 400 - 600	250 - 320 - 400 - 600
	IEC 60947	315 - 400 - 500 - 630	315 - 400 - 500 - 630

UL98B **File #E354681**			
			
		OTDC250UFS22/ OTDC250UFSV22	OTDC800US22
		OTDC320UFS22/ OTDC320UFSV22	OTDC1000US22
		OTDC400UFS22/ OTDC400UFSV22	
		OTDC600UFS22/ OTDC600UFSV22	
Rated Voltage [V DC]		1000/1500	1000
Rated current [A]	**UL98B**	250 - 320 - 400 - 600	800 - 1000
	IEC 60947	315 - 400 - 500 - 630	

Side operated disconnect switches 100…400 A, UL

UL-types **UL98B** **FIle #E354681**			
			
		OTDC100U20S	OTDC100US20S
		OTDC200U20S	OTDC200US20S
Rated Voltage [V DC]		1000	1000
Rated current [A]		100 - 200	100 - 200

*) All UL listed products (except side operated) are also IEC rated up to 800 A.

Overview of product range
Type codes and pole configuration table

Type codes [1)]
Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

Explanation of the types 16 to 32 Amperes, open version

Option:	OTDC	16	U	3
Position:	**1**	**2**	**3**	**4**

1: Brand and Switch size/Ampere rating

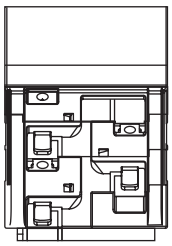
2: Ampere rating

3: Standard

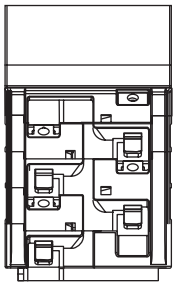
- F: IEC
- U: Base mounted, IEC and UL508i, non grounded
- US: Base mounted, IEC and UL508i, non grounded (includes factory mounted jumpers)
- FT: Door mounted, IEC
- UT: Door mounted, IEC and UL508i, non grounded
- UST: Door mounted, UL, factory mounted jumpers

4: Number of the poles [2)]

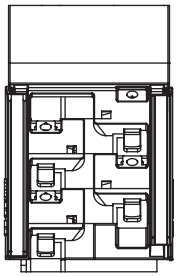
2
3
4
6



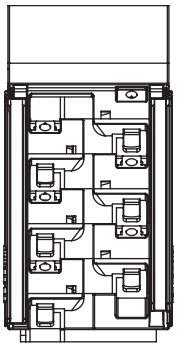
2 pole version



3 pole version



4 pole version



6 pole version

1) Please consult catalogue ISCC301022C0201 - 2018.11 for dimensions, circuits, accessories.
2) Some switches are not available in all configurations. Please consult ABB sales office for additional information.

Overview of product range
Type codes and pole configuration table

Explanation of the types OTDC100...1000, IEC and UL98B

Option:	OTDC	200	U	S	11	K	-ESS
Position:	1	2	3	4	5	6	7

1: Brand
- OTDC: ABB DC disconnect switch brand

2: Switch size
- 100...1000: 100...1000 Amperes

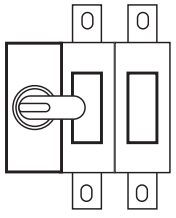
3: Voltage and standard
- E: IEC
- U: UL98B
- UF: IEC and UL98B

4: Connection bars/jumpers
- blank: Connection bars/jumpers not included
- V: 1500 VDC
- S: Grounded versions (connection kits are premounted)

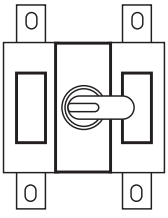
5: Number of poles [2)]
- 11: Two poles, mechanism between the poles
- 02, 20: Two poles, mechanism at the end of the switch
- 12: Three poles, mechanism between the poles
- 22: Four poles, mechanism between the poles
- 33: Six poles, mechanism between the poles

6: Included handle
- -: none
- P: external handle
- K: direct mount, front operation
- S: Side operation (handle not included)

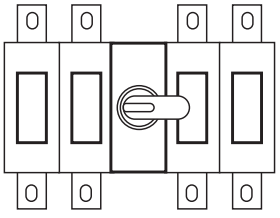
7: Application
- blank: PV application
- ESS: ESS application



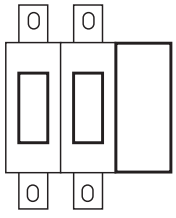
Configuration 02



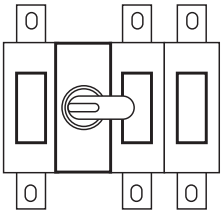
Configuration 11



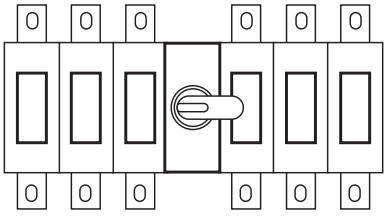
Configuration 22



Configuration 20 (side operated only)



Configuration 12



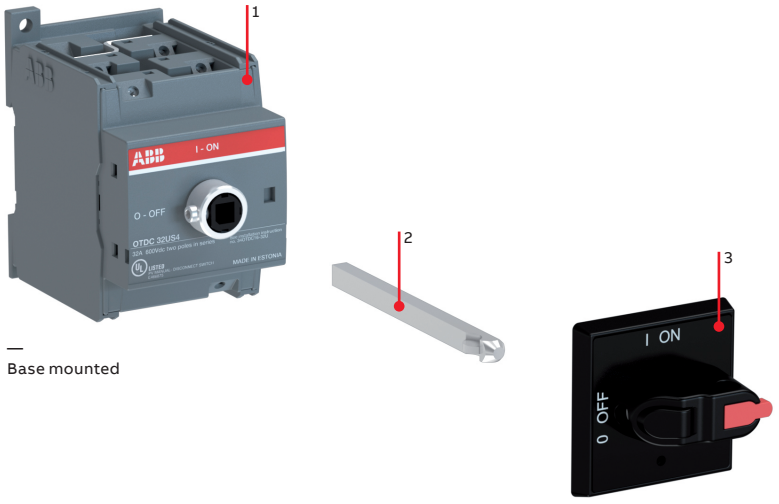
Configuration 33

1) Please consult catalogue ISCC301022C0201 - 2018.11 for dimensions, circuits, accessories.
2) Some switches are not available in all configurations. Please consult ABB sales office for additional information.

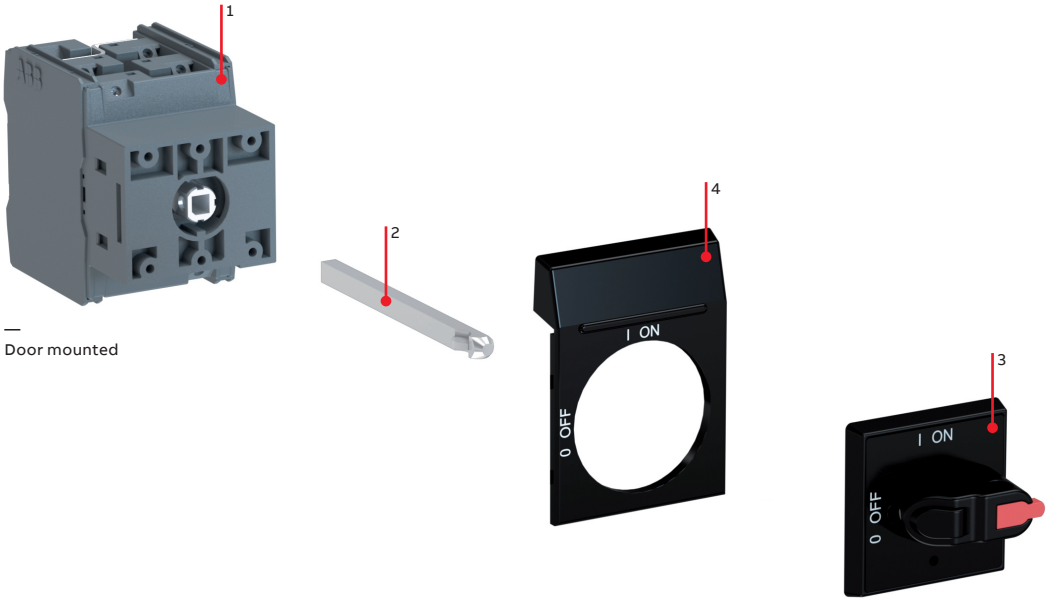
Ordering information, UL
OTDC16…32, 1000 VDC

DC disconnect switches accessory guide [1) 2)]

1. Disconnect switch
2. Shaft
3. Selector handle (options for direct mount or external mount with a shaft available)
4. Legend plate



—
Base mounted



—
Door mounted

1) Please consult catalogue ISCC301022C0201 - 2018.11 for dimensions, circuits, accessories.
2) Please note that not all listed accessories are automatically included in your order.
The information in this image applies to both IEC and UL versions of the depicted product.

Ordering information, UL
OTDC16…32, 1000 VDC

Disconnect switches OTDC_, base or DIN-rail mounting, UL
Touch-safe IP20 protected terminal clamps included. Types OTDC16…32US include pre-mounted jumper. Shafts and handles to be ordered separately.



OTDC16…32U2



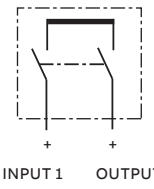
OTDC16…32U4

Single circuit

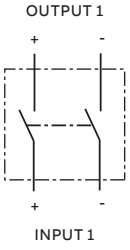
Number of poles	Rated operat. current [A] UL 600 VDC	IEC 660 VDC	IEC 1000 VDC	Type	Weight/ unit [kg]
2	16	16	10	OTDC16U2	0.15
2	25	25	16	OTDC25U2	0.15
2	32	32	-	OTDC32U2	0.15
2	16	16	-	OTDC16US2	0.15
2	25	25	-	OTDC25US2	0.15

Double circuit

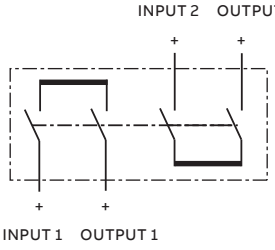
Number of poles	Rated operat. current [A] UL 600 VDC	IEC 660 VDC	IEC 1000 VDC	Type	Weight/ unit [kg]
4	16	16	10	OTDC16U4	0.15
4	25	25	16	OTDC25U4	0.15
4	32	32	20	OTDC32U4	0.15
4	16	16	-	OTDC16US4	0.15
4	25	25	-	OTDC25US4	0.15
4	32	32	-	OTDC32US4	0.15



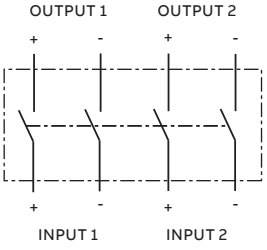
Single circuit, US types



Single circuit, U types



Double circuit, US types



Double circuit, U types

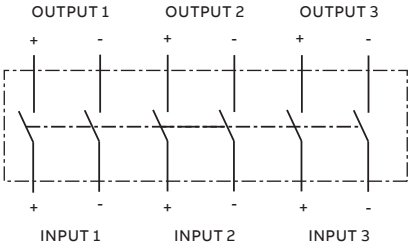
Ordering information, UL
OTDC16…32, 1000 VDC



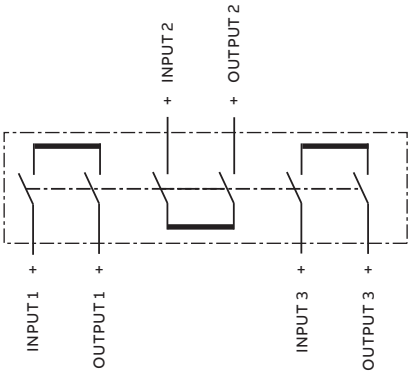
OTDC16…32U6

Triple circuit

Number of poles	Rated operat. current [A] UL 600 VDC	IEC 660 VDC	IEC 1000 VDC	Type	Weight/ unit [kg]
6	16	16	10	OTDC16U6	0.15
6	16	16	-	OTDC16US6	0.15
6	25	25	-	OTDC25U6	0.15
6	32	32	-	OTDC32U6	0.15



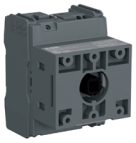
Triple circuit, U types



Triple circuit, US types

Ordering information, UL
OTDC16…32U_T, 1000 VDC

OTDC16…32U_T door mounted switch
Touch-safe IP20 protected terminal clamps included. Types OTDC16…32UST include pre-mounted jumper OEZXY86. Shafts and handles to be ordered separately.



OTDC16…32UT2,
OTDC16…32UST2



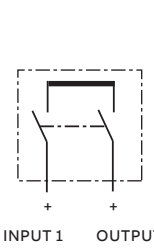
OTDC16…32UT4,
OTDC16…32UST4

Single circuit - up to 1000 VDC

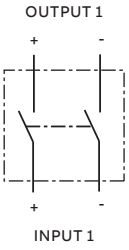
Number of poles	Rated operat. current [A] UL 600 VDC	IEC 660 VDC	IEC 1000 VDC	Type	Weight/ unit [kg]
2	16	16	10	OTDC16UT2	0.15
2	25	25	16	OTDC25UT2	0.15
2	16	16	-	OTDC16UST2	0.15
2	25	25	-	OTDC25UST2	0.15
2	32	32	-	OTDC32UT2	0.15

Double circuit - up to 1000 VDC

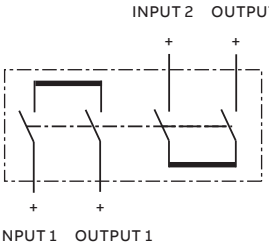
Number of poles	Rated operat. current [A] UL 600 VDC	IEC 660 VDC	IEC 1000 VDC	Type	Weight/ unit [kg]
4	16	16	10	OTDC16UT4	0.15
4	25	25	16	OTDC25UT4	0.15
4	32	32	20	OTDC32UT4	0.15
4	16	16	-	OTDC16UST4	0.15
4	25	25	-	OTDC25UST4	0.15
4	32	32	-	OTDC32UST4	0.15



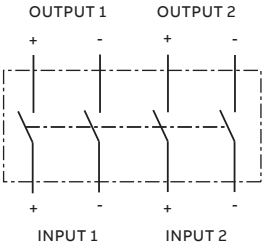
Single circuit, US types



Single circuit, U types



Double circuit, US types



Double circuit, U types

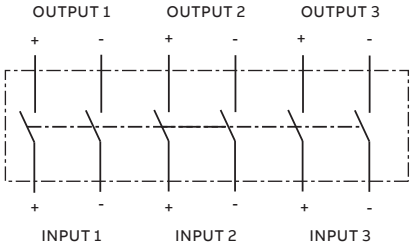
Ordering information, UL
OTDC16…32U_T, 1000 VDC



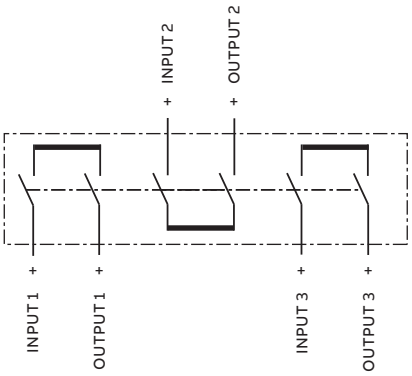
OTDC16...32UT6,
OTDC16...32UST6

Triple circuit - up to 1000 VDC door mounted switch

Number of poles	Rated operat. current [A] UL 600 VDC	IEC 660 VDC	IEC 1000 VDC	Type	Weight/ unit [kg]
6	16	16	10	OTDC16UT6	0.15
6	16	16	-	OTDC16UST6	0.15



Triple circuit, U types



Triple circuit, US types

Ordering information, UL
OTDC100…245, 1000 VDC



OTDC100...200US02



OTDC100U...200US11



OTDC100...180US22



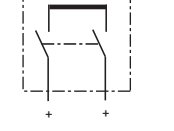
OTDC100...200U22

Single circuit, 1000 VDC, UL98B - 100...250 A
Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC100U02K) are available. Phase barriers are included in types OTDC100...200U02 - installation mandatory.

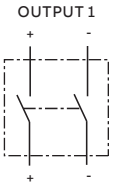
Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Weight/ unit [kg]
Front operated, mechanism at the end of the switch. OTDC_US types inlcude pre-mounted jumpers				
2	1a, 1b	100	OTDC100US02	1.2
2	1a, 1b	200	OTDC200US02	1.2
2	1a, 1b	250	OTDC245US02	1.2
2	2a, 2b	100	OTDC100U02	1.1
2	2a, 2b	200	OTDC200U02	1.1
2	2a, 2b	250	OTDC245U02	1.1
Front operated, mechanism between the poles. OTDC_US types inlcude pre-mounted jumpers				
2	1a, 1b	100	OTDC100US11	1.2
2	1a, 1b	200	OTDC200US11	1.2
2	1a, 1b	250	OTDC245US11	1.2
2	2a, 2b	100	OTDC100U11	1.1
2	2a, 2b	200	OTDC200U11	1.1
2	2a, 2b	250	OTDC245U11	1.1

Double circuit, 1000 VDC, UL98B - 100...200 A
The switches OTDC_U22 and OTDC_US22 can be used for double circuit applications.
Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC180U22K) are available. Phase barriers are included.

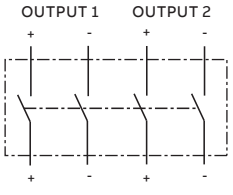
Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Weight/ unit [kg]
Mechanism between the poles				
2x2	3, 6f	100	OTDC100US22	2.5
2x2	3, 6f	180	OTDC180US22	2.5
2x2	3, 6f	200	OTDC200US22	2.5
2x2	4a, 6d	100	OTDC100U22	2.3
2x2	4a, 6d	180	OTDC180U22	2.3
2x2	4a, 6d	200	OTDC200U22	2.3



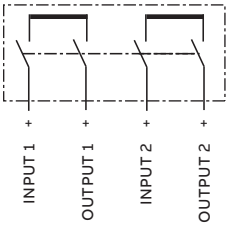
Single circuit, US types



Single circuit, U types

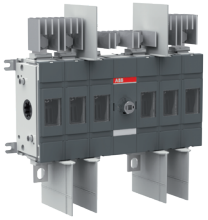


Double circuit, U types



Double circuit, US types

Ordering information, UL
OTDC100…245, 1000 VDC



OTDC100...200US33



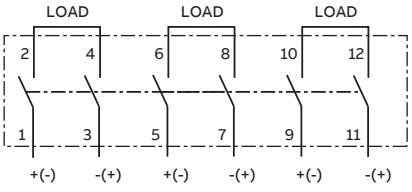
OTDC100...200U33

Triple circuit, 1000 VDC, UL98B - 100...200 A
The switches OTDC_U33 and OTDC_US33 can be used for triple circuit applications. Shafts and handles are not included. Switches with direct mount handle (OTDC_K, e.g. OTDC180U22K) are available. Phase barriers are included.

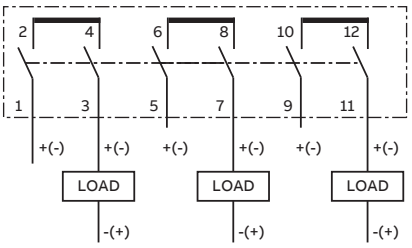
Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Weight/ unit [kg]
Mechanism between the poles				
3x2	7i	100	OTDC100US33	3.2
3x2	7i	200	OTDC200US33	3.2
3x2	7a, 7e	100	OTDC100U33	2.8
3x2	7a, 7e	200	OTDC200U33	2.8

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...245	OXP6X210	OHB65J6	M8x25
OTDC100...245	-	OTDV250EK	M8x25



Triple circuit, U types



Triple circuit, US types

NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC100…245, 1000 VDC, side operated



OTDC100...200U20S



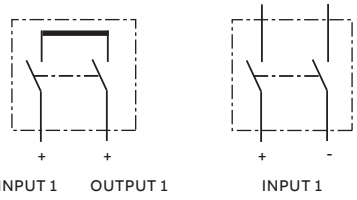
OTDC100...200US20S

Side operated, single circuit, 1000 VDC, UL98B - 100...250 A
Side operation. Shafts and handles are not included. OTDC_US types inlcude pre-mounted jumper. The mechanism is located at the end of the switch.

Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Weight/ unit [kg]
2	1a	100	OTDC100US20S	1.7
2	1a	200	OTDC200US20S	1.7
2	1a	250	OTDC245US20S	1.7
2	2a	100	OTDC100U20S	1.3
2	2a	200	OTDC200U20S	1.5
2	2a	250	OTDC245U20S	1.5

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...250	OXP6X210	OHB65J6E00S	M8x25



Single circuit, US types

Single circuit, U types

NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC100…200, 1500 VDC



OTDC100...200UV22



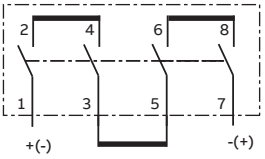
OTDC100...200USV22

Single circuit, 1500 VDC, UL98B -100...200 A
The switches OTDC_UV22 and OTDC_USV22 can be used for 1500VDC single circuit applications. Shafts and handles are not included. Phase barriers are included.

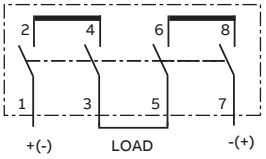
Number of poles	Circuit	Rated operat. current [A] UL98B / 1500 V	Type	Weight/ unit [kg]
Mechanism between the poles				
2x2	6a,6b	100	OTDC100UV22	2.3
2x2	6a,6b	200	OTDC200UV22	2.3
2x2	6m	100	OTDC100USV22	2.4
2x2	6m	200	OTDC200USV22	2.4

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC100...200	OXP6X210	OHB65J6	M8x25
OTDC100...200	-	OTDV250EK	M8x25



Single circuit, US types



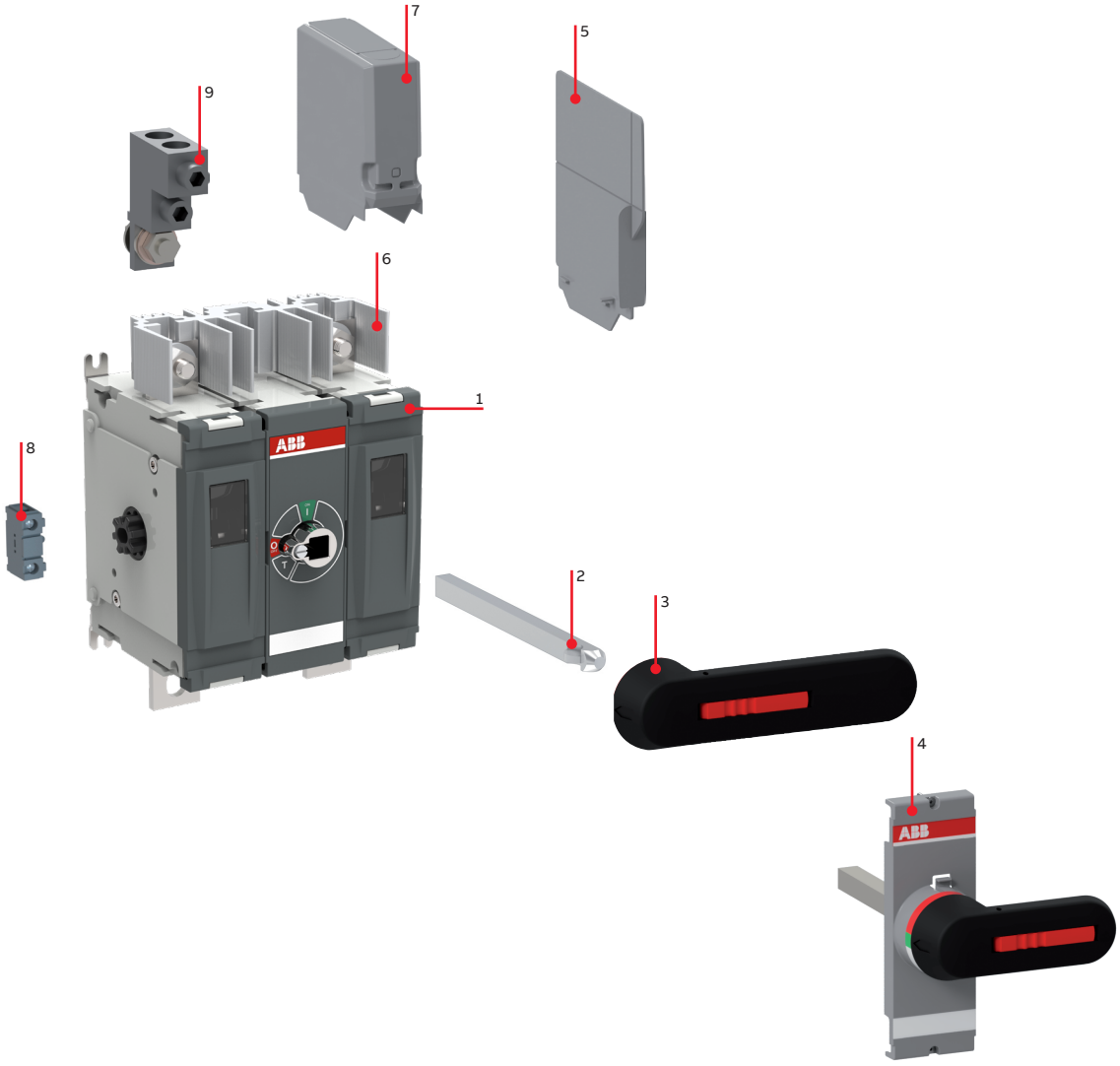
Single circuit, U types

NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC250…400, 1000 VDC

DC disconnect switches accessory guide [1)]

1. Disconnect switch
2. Shaft
3. Pistol handle
4. Direct mount handle
5. Phase barriers
6. Connection bar
7. Shroud
8. Auxiliary contact
9. Mechanical lug



[1)] Please note that not all listed accessories are automatically included in your order.
Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC250…600, 1000 VDC



OTDC250…400UFS02



OTDC250…400UFS11



OTDC600UFS02



OTDC600UFS11



OTDC250…600UF11



OTDC250…600UF11

Single circuit, 1000 VDC, UL - 250…600 A
Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UF11P) or direct mount handle (OTDC_K, e.g.OTDC400UF11K) are available. Phase barriers are included in types OTDC250…600UF02 - installation mandatory. Connection bar kit is factory installed in grounded types OTDC250…600UFS_.

Number of poles	Circuit	Rated operat. current [A] DC21B / 1000 V	Type	Weight/ unit [kg]
Front operated, mechanism at the end of the switch				
2	2a,2b	250	OTDC250UF02	3.41
2	2a,2b	320	OTDC320UF02	3.41
2	2a,2b	400	OTDC400UF02	3.41
2	2a,2b	600	OTDC600UF02	3.41
2	1a	250	OTDC250UFS02	3.76
2	1a	320	OTDC320UFS02	3.76
2	1a	400	OTDC400UFS02	3.76
2	1a	600	OTDC600UFS02	4.16
Front operated, mechanism between the poles				
2	2a,2b	250	OTDC250UF11	3.41
2	2a,2b	320	OTDC320UF11	3.41
2	2a,2b	400	OTDC400UF11	3.41
2	2a,2b	600	OTDC600UF11	3.41
2	1a	250	OTDC250UFS11	3.76
2	1a	320	OTDC320UFS11	3.76
2	1a	400	OTDC400UFS11	3.76
2	1a	600	OTDC600UFS11	4.16

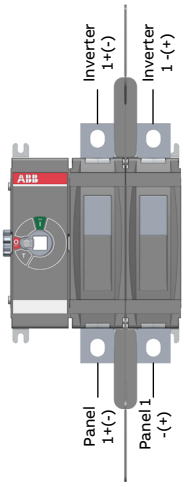
Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250…600	OXP12x185	OHB95J12	M10x30 M12x40
		OHB125J12	
		OHB145J12	
	-	OTDV400FK1	
		OTDV400FK2	

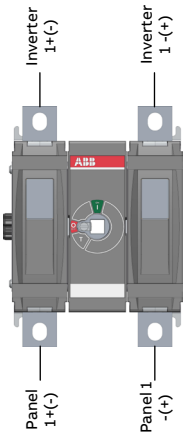
NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC250…600, 1000 VDC

OTDC250...600UF02

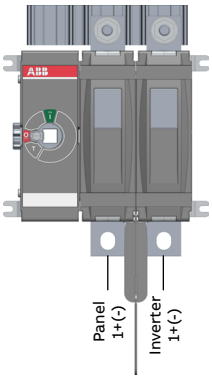


OTDC250...600UF11

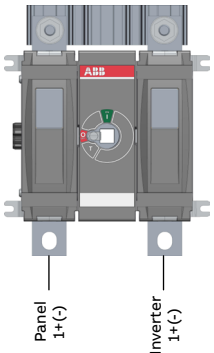


Circuit 2a, 2b

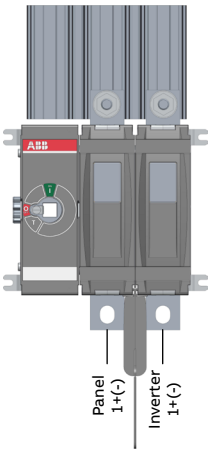
OTDC250...400UFS02



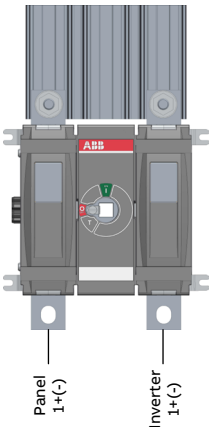
OTDC250...400UFS11



OTDC600UFS02



OTDC600UFS11



Circuit 1a

NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC250…600, 1000 VDC



OTDC250...400UFS22



OTDC600UFS22



OTDC600UFS22

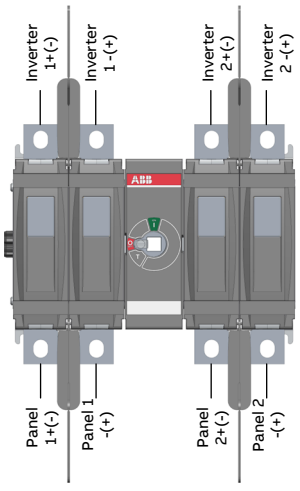
Double circuit, 1000 VDC, UL - 250...600 A
Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UF22P) or direct mount handle (OTDC_K, e.g.OTDC400UF22K) are available. Phase barriers are included in types OTDC250…600UF22_ - installation mandatory. Connection bar kit is factory installed in grounded types OTDC250…600UFS22.

Number of poles	Circuit	Rated operat. current [A] DC21B / 1000 V	Type	Weight/ unit [kg]
Front operated, mechanism between the poles				
4	4a,4c	250	OTDC250UF22	5.94
4	4a,4c	320	OTDC320UF22	5.94
4	4a,4c	400	OTDC400UF22	5.94
4	4a,4c	600	OTDC600UF22	5.94
4	3	250	OTDC250UFS22	6.54
4	3	320	OTDC320UFS22	6.54
4	3	400	OTDC400UFS22	6.54
4	3	600	OTDC600UFS22	7.14

Recommended shafts, handles and bolt kits

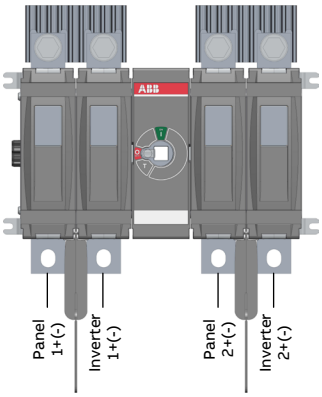
Suitable for switches	Shaft	Handle	Bolt kit
OTDC250…600	OXP12x185	OHB145J12	M10x30 M12x40
	-	OTDV400FK2	

OTDC250...600UF22



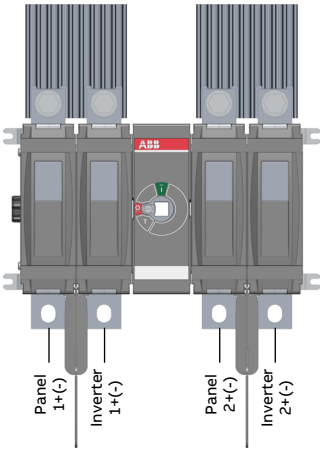
Circuit 4a, 4c

OTDC250...400UFS22



Circuit 3

OTDC600UFS22



NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC250…600, 1500 VDC



OTDC250…600UFV02



OTDC250…400UFSV02



OTDC600UFSV02



OTDC250…600UFV11



OTDC250…400UFSV11



OTDC600UFSV11

Single circuit, 1500 VDC, UL - 250…600 A
Shafts and handles are not included. Switches with external handle (OTDC_P, e.g. OTDC400UFV11P) or direct mount handle (OTDC_K, e.g.OTDC400UFV11K) are available. Phase barriers are included in types OTDC250…600UFV02 - installation mandatory.
Connection bar kit is factory installed in grounded types OTDC250…600UFS_.

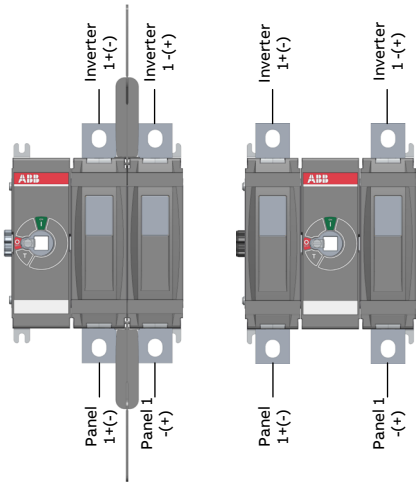
Number of poles	Circuit	Rated operat. current [A] DC21B / 1500 V	Type	Weight/ unit [kg]
Front operated, mechanism at the end of the switch				
2	2a,2b	250	OTDC250UFV02	3.41
2	2a,2b	320	OTDC320UFV02	3.41
2	2a,2b	400	OTDC400UFV02	3.41
2	2a,2b	600	OTDC600UFV02	3.41
2	1a	250	OTDC250UFSV02	3.76
2	1a	320	OTDC320UFSV02	3.76
2	1a	400	OTDC400UFSV02	3.76
2	1a	600	OTDC600UFSV02	4.16
Front operated, mechanism between the poles				
2	2a,2b	250	OTDC250UFV11	3.41
2	2a,2b	320	OTDC320UFV11	3.41
2	2a,2b	400	OTDC400UFV11	3.41
2	2a,2b	600	OTDC600UFV11	3.41
2	1a	250	OTDC250UFSV11	3.76
2	1a	320	OTDC320UFSV11	3.76
2	1a	400	OTDC400UFSV11	3.76
2	1a	600	OTDC600UFSV11	4.16

Recommended shafts, handles and bolt kits

Suitable for switches	Shaft	Handle	Bolt kit
OTDC250…600	OXP12x185	OHB95J12	M10x30 M12x40
		OHB125J12	
		OHB145J12	
	-	OTDV400FK1	
		OTDV400FK2	

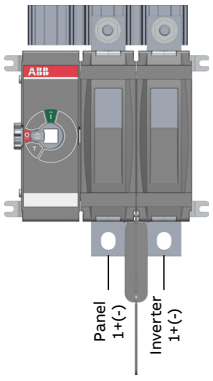
NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC250…600, 1500 VDC

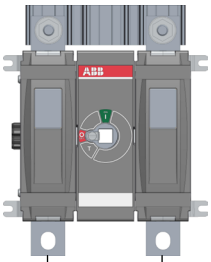


Circuit 2a, 2b

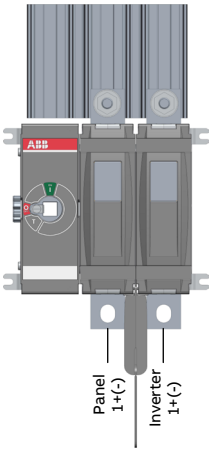
OTDC250…400UFSV02



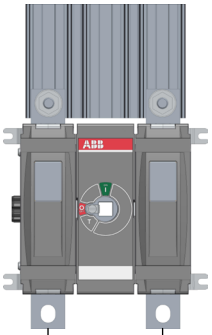
OTDC250…400UFSV11



OTDC600UFSV02



OTDC600UFSv11



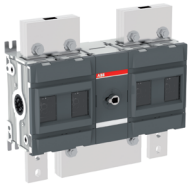
Circuit 1a

NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Ordering information, UL
OTDC800…1000, 1000 VDC



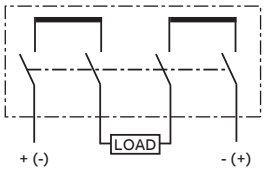
OTDC800…1000U22



OTDC800…1000US22

Single circuit, 1000 VDC, UL98B - 800 to 1000 A
Shafts and handles are not included. Switches with direct handle OTV1000UK (OTDC_K, e.g. OTDC1000U22K) are available.
Phase barriers are included if mandatory (phase barriers are included in types OTDC250…400U02 - installation mandatory).
Included terminal bolts:
- OTDC800…1000: M12X60

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Weight/ unit [kg]
Front operated, mechanism between the poles. OTDC_US and OTDC_U_PP types inlcude pre-mounted jumpers				
4	6a, 6b	800	OTDC800U22	21
4	6a, 6b	1000	OTDC1000U22	21
4	6a, 6b	800	OTDC800U22K	21
4	6a, 6b	1000	OTDC1000U22K	21
4	6m	800	OTDC800US22	21
4	6m	930	OTDC1000US22	21
4	6m	800	OTDC800US22K	21
4	6m	930	OTDC1000US22K	21



Single circuit

NOTE: Please consult catalogue ISCC301022C0201 - 2018.11 for complete information of accessories.

Technical data
OTDC16…1000, UL

Technical data in accordance to UL508I for photovoltaic disconnect switches OTDC16…32U
Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size				**OTDC16U**	**OTDC25U**	**OTDC32U**
UL Listed	Standard			UL 508I	UL 508I	UL 508I
Rated ambient temperature			°C	-20…+60	-20…+60	-20…+60
Rated current /poles in series	600 V	One circuit	A	16/2	25/2	
		Two circuits	A	16/2	25/2x2	32/2x2
Short circuit rating	600 V		kA	5	5	5
Protection type				RK5 Fuse	RK5 Fuse	RK5 Fuse
Wire range	MCM			12-6 AWG	12-6 AWG	12-6 AWG
Technical data according to IEC 60947	See IEC table for type			OTDC16U	OTDC25U	OTDC32U

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC100…245U
Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size				**OTDC100U**	**OTDC200U**	**OTDC245U** [1)]
UL Listed	Standard			UL98B	UL98B	UL98B
Rated ambient temperature			°C	-20…+50	-20…+50	-20…+50
Rated current /poles in series	1000 V	One circuit	A	100/2	200/2	250/2 [1)]
		Two circuits	A	100/2x2	200/2x2	
		Three circuits	A	100/3x2	200/3x2	
	1500 V	One circuit	A	100/4	200/4	
Short circuit rating	1000 V		kA	10	10	10
Protection type				Circuit breaker	Circuit breaker	Circuit breaker
Wire range	MCM			4 - 300 kcmil	4 - 300 kcmil	#250-500
Technical data according to IEC 60947	See IEC table for type			OTDC160E	OTDC250E	OTDC250E

[1)] For enclosure details, please refer to installation instructions or consult us.

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250UF_…600UF_
Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size				**OTDC250UF_**	**OTDC320UF_**	**OTDC400UF_**	**OTDC600UF_**
UL Listed	Standard			UL98B	UL98B	UL98B	UL98B
Rated ambient temperature			°C	-20…+50˚C	-20…+50˚C	-20…+50˚C	-20…+50˚C
Rated current /poles in series	1000 V	One circuits	A	250/2	320/2	400/2	600/2
		Two circuits	A	250/2x2	320/2x2	400/2x2	600/2x2
	1500 V	One circuits	A	250/2	320/2	400/2	600/2
		Two circuits	A	250/2x2	320/2x2	400/2x2	600/2x2
Short circuit rating	1000 V		kA	10	10	10	10
	1500 V		kA	10	10	10	10
Protection type				Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Mechanical lug				OZXA 402	OZXA 402	OZXA 402	OZXA 406
Wire range	MCM			300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	2x 300kcmil-6 Cu/Al
Tightening torque			lb-in.	275	275	275	275
Technical data according to IEC 60947	See IEC table for type			OTDC315F_	OTDC400F_	OTDC500F_	OTDC630F_

Technical data
OTDC16…1000, UL

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC250UF…600UF-ESS
Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size				OTDC250UF_-ESS	OTDC320UF_-ESS	OTDC400UF_-ESS	OTDC600UF_-ESS
UL Listed	Standard			UL98B	UL98B	UL98B	UL98B
Rated ambient temperature			°C	-20…+50˚C	-20…+50˚C	-20…+50˚C	-20…+50˚C
Rated current /poles in series	1500 V	One circuits	A	250/2	320/2	400/2	600/2
Rated conditional short-circuit current	R.M.S. -value I_q		kA	30	30	30	30
	Max. ETI fuse size, gPV [1]	L/R=3ms	A	400	400	400	400
Mechanical lug				OZXA 402	OZXA 402	OZXA 402	OZXA 406
Wire range	MCM			300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	300kcmil-6 Cu/Al	2x 300kcmil-6 Cu/Al
Tightening torque			lb-in.	275	275	275	275
Technical data according to IEC 60947	See IEC table for type			OTDC315F_	OTDC400F_	OTDC500F_	OTDC630F_

[1] Fuse manufacturer, size and type: ETI, 400A, Cat.no 004110 followed by 632, 637 or 642. More details from the fuse manufacturer catalog.

Technical data in accordance to UL98B for photovoltaic disconnect switches OTDC800…1000U
Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size				OTDC800US22	OTDC800U22	OTDC1000US22	OTDC1000U22
UL Listed	Standard			UL98B	UL98B	UL98B	UL98B
Rated ambient temperature			°C	-20…+50	-20…+50	-20…+50	-20…+50
Rated current /poles in series	1000 V	One circuit	A	800 / 4	800 / 4	930 / 4 [1]	1000 / 4 [2]
Short circuit rating	1000 V		kA	10	10	10	10
Protection type				Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Wire range	MCM			4 x #4 - 300	4 x #4 - 300	4 x #4 - 300	4 x #4 - 300
Cable lug				OZXA1200	OZXA1200	OZXA1200	OZXA1200
Technical data according to IEC 60947	See IEC table for type			OTDC1000E	OTDC1250E	OTDC1250E	OTDC1600E

[1] When shrouds are used rated current I = 920A
[2] When shrouds are used rated current I = 980A


ABB

Accessories

Ordering information

Manual disconnect switches 6/3
Manual change-over switches 6/5
Manual operated fusible disconnect switches 6/11
Miscellaneous accessories / replacement parts 6/15

Accessories for manual disconnect switches OT16...160

Ordering information for handle knobs

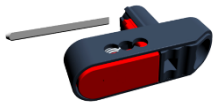

OHRS2


OHBS1


OHBS3


OHRS3


OHRS9

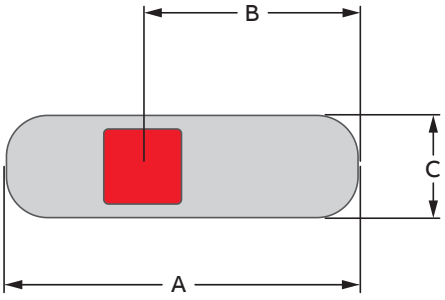

OHBS16

Handle knobs for base and DIN-rail mounted switches
Mounting directly to the switch, no shaft needed.

Suitable for switches	Colour	Handle length [mm]	Type	Weight/ unit [kg]
Padlockable in 0-position with one padlock with bail diameter 5 mm				
OT16, OT25, OT40F3/F4	Black	37	OHBS12	0.01
	Red	37	OHRS12	0.01
OT63...100F3/F4, OT16...40F6/F8	Black	40	OHBS2	0.01
	Black	40	OHBS2/1	0.01
	Red	40	OHRS2	0.01
	Red	40	OHRS2/1	0.01
OT160G3/4	Black	74	OHBS16	0.01
Non-padlockable				
OT16...80F3/F4	Black	31	OHBS1	0.01
	Black	31	OHBS1/1	0.01
	Red	31	OHRS1	0.01
	Red	31	OHRS1/1	0.01
OT16...100F3/F4, OT16...40F6/F8	Black	39	OHBS3	0.01
	Black	39	OHBS3/1	0.01
	Red	39	OHRS3	0.01
	Red	39	OHRS3/1	0.01
OT63...100F6/F8	Black	72	OHBS9	0.01
	Black	72	OHBS9/1	0.01
	Red	72	OHRS9	0.01
	Red	72	OHRS9/1	0.01
OT160G_	Black	72	YAST1	0.023
OT160G_	Black	72	OHBS13	0.019
			OHBS13/1	0.019

Handle type	Shaft through the handle	45 mm cut-out enable*
OHBS1_ , OHRS1_	No	Yes
OHBS12, OHRS12	Yes	Yes
OHBS11_, OHBS13_, OHBS16_	Yes	
OHBS2_ , OHRS2_	No	Yes
OHBS3_ , OHRS3_	No	Yes
OHBS9_ , OHRS9_	No	No
YAST1	No	

* in I-position the handle shall remain within the cut-out height



Handle knob dimensions

Handle type [mm/in]	A	B	C
OHBS1, OHRS1	31/1.22	16/0.63	14/0.55
OHBS2, OHRS1	40/1.57	25/0.98	13/0.51
OHBS3, OHRS3	39/1.53	23/0.91	18/0.71
OHBS9,OHRS9	72/2.834	55/2.17	16/0.63
OHBS13, YAST1	72/2.834	55/2.17	16/0.63

Accessories for manual disconnect switches OT16...160

Ordering information for handle



OHBS3AH



OHYS3AH



OHBS2AJ



OHYS2AJ



OHBS2AJ_EH

Selector handles for base and DIN-rail mounted switches

For shaft diameter 6 mm, door drilling 22.5 mm. Indication I-O and ON-OFF.

Suitable for switches	Colour	Type	Weight/ unit [kg]
IP54 handles, NEMA 1			
OT16...80F	Black	OHBS1AH	0.05
	Red-yellow	OHYS1AH	0.05
Door interlock in ON-position			
OT16...80F	Black	OHBS1AH1	0.05
	Red-yellow	OHYS1AH1	0.05
Padlockable with one padlock with bail diameter 5...6.3 mm			
OT16...80F	Black	OHBS3AH [1)]	0.05
	Red-yellow	OHYS3AH [1)]	0.05
Padlockable with one padlock with bail diameter 5...6.3 mm, door interlock in ON-position			
OT16...80F	Black	OHBS3AH1 [1)]	0.05
	Red-yellow	OHYS3AH1 [1)]	0.05
IP65 handles, NEMA 1, 3R, 12			
Padlockable with max. 3 padlocks with bail diameter 5...8 mm, defeatable door interlock in ON-position, door interlocking in OFF-position when padlocked			
OT16...80F, OT30, OT60, OT100F	Black	OHBS2AJ	0.07
	Red-yellow	OHYS2AJ	0.07
Padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position			
OT16...80F, OT30, OT60, OT100F	Black	OHBS2AJ1	0.07
	Red-yellow	OHYS2AJ1	0.07

Selector handle with metal hasp

IP65 handles, NEMA 1, 3R, 12			
Padlockable with max. 3 padlocks, door interlock in the ON-position, defeatable			
OT16...80F, OT30, OT60, OT100F	Black	OHBS2AJEH	0.07
Padlockable with max. 3 padlocks, door interlock in the ON-position, non-defeatable			
OT16...80F, OT30, OT60, OT100F	Black	OHBS2AJ1EH	0.07

-Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

1) Not suitable for use with OT30F3, OT60F3, OT100F3

Accessories for manual disconnect switches OT16...160

Ordering information for handle



OHBS3PH, RH



OHYS3PH, RH



OHBS2PJ, RH



OHYS2PJ, RH

Selector handles for door mounted switches[2)]

Indication I-O and ON-OFF. No separate shaft needed.

Suitable for switches	Colour	Type	Weight/ unit [kg]
Snap-on mounting, door drilling 22,5 mm			
No padlocking, IP54, NEMA 1			
OT16FT, OT25FT, 40FT	Black	OHBS1PH	0.05
	Red-yellow	OHYS1PH	0.05
Padlockable with one padlock, IP54, NEMA 1			
OT16FT, OT25FT, 40FT	Black	OHBS3PH	0.05
	Red-yellow	OHYS3PH	0.05
Padlockable with max. 3 padlocks, IP65, NEMA 1, 3R, 12			
OT16FT, OT25FT, 40FT	Black	OHBS2PJ[1)]	0.07
	Red-yellow	OHYS2PJ	0.07
Screw mounting, hole distance 36 mm			
No padlocking, IP54, NEMA 1			
OT16...80FT	Black	OHBS1RH	0.05
	Red-yellow	OHYS1RH	0.05
Padlockable with one padlock, IP54, NEMA 1			
OT16...80FT, OT30FT, OT60FT, OT100FT	Black	OHBS3RH	0.05
	Red-yellow	OHYS3RH	0.05
Padlockable with max. 3 padlocks, IP65, hole distance 36/48 mm, NEMA 1, 3R, 12			
OT16...80FT, OT30FT, OT60FT, OT100FT	Black	OHBS2RJ	0.07
	Red-yellow	OHYS2RJ	0.07

-Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
This can be defeated in IP65 types to allow authorized personnel access for inspection. The padlocked handle is not defeatable.

1) OHBS2PJEH is also available (stainless steel hasp)

2) Selector handles for door mounted switches are not available in Nema 4, 4X

Accessories for manual disconnect switches OT16...160

Ordering information for handle



OZ331_B



OZ331_RY



OZ371PB

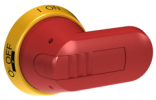
Round padlockable handles for base and DIN-rail mounted switches OT16...100

Padlockable in 0-position, max 3 padlocks with max 8 mm hasp diameter.
Indication I-O and ON-OFF.

Suitable for switches	Colour	Type	Weight/ unit [kg]
One hole mounting handle, IP65, NEMA 4X outdoor, size 66x66			
OT16...80F, OT30F, OT60F, 100F	Black	OZ331SPB	0.05
	Red-yellow	OZ331SPRY	0.05
IP67, NEMA 4X, size 66x66			
OT16...80F, OT30F, OT60F, 100F	Black	OZ331P67B	0.04
	Red-yellow	OZ331P67RY	0.04
Handles with door coupling in ON-position, not defeatable, IP65, NEMA 4X, size 66x66			
Shaft alignment ring for OZ371P_ handle, see page 7/11.			
OT16...80F, OT30F, OT60F, 100F	Black	OZ371PB	0.05
	Red-yellow	OZ371PRY	0.05



OHB_



OHY_



OHG45J6

Pistol handles for base and DIN-rail mounted switches OT16...100F and OT160G

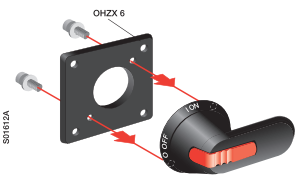
For shaft diameter 6 mm, IP65, NEMA 1, 3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle.
No screws on the front ensures double insulation. Indication in types OHB and OHY: I-0, ON-OFF, in types OHG: I-0.

Handle lenght mm	Colour	Type	Weight/ unit [kg]
45	Black	OHB45J6	0.10
45	Red-yellow	OHY45J6	0.10
45	Grey	OHG45J6	0.10

-Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
Door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.
-Handles padlockable in ON and OFF positions available on request.
-The door is locked when the handle is padlocked. The padlocked handle is not defeatable.



OHZX6



Pistol handle mounting kit for OT 100FT_ and OT160GT switches

Mounting kit OHZX6 consists of door mount handle fixing plate, screws and shaft.
The pistol handle is not included.

Suitable for switches	Colour	Type	Weight/ unit [kg]
OT30FT, OT60FT, 100FT, OT160GT	Black	OHZX6[1)]	0.01

1) OHZX6 mounting kit includes OXP6X50 shaft which can not be ordered separately.
Please order OXP6X57 if OXP6X50 shaft is required.

Accessories for manual disconnect switches OT16...160

Ordering information for handle



OHYS7



CXBY68140

Modular adapter cover - for OT16, OT25, OT40

Item	For use on	Lenght (inches)	Padlockables	Catalog number
Adapter cover grey	OT16, OT25, OT40	–	Yes	OHBS7
Adapter cover yellow	OT16, OT25, OT40	–	Yes	OHYS7

A padlock can be used with the adapter cover.

Locking clip - (replacement part)

Description	For use on	Catalog number
Door mounted switch handle locking clip	OT16, OT25, OT40	CXBY68140

Accessories for manual disconnect switches OT16...160

Ordering information for legend plates



OPBS1



OPB2



OPG2



OPS2



OPBS1EN1



OPSS1EN1



OPB2EN1



OPG2EN1



OPS2EN1

Legend plates for selector handles

Colour	Type	Weight/ unit [kg]
Plain plates for OH 1_ and OH 3_handles.		
Black	OPBS1	0.01
Yellow	OPYS1	0.01
Silver	OPSS1	0.01
Grey	OPGS1	0.01
Plain plates for OH 2_ handles.		
Black	OPB2	0.01
Yellow	OPY2	0.01
Silver	OPS2	0.01
Grey	OPG2	0.01
Printed plates for OH 1_ and OH3_ handles. Text: MAIN SWITCH.		
Black	OPBS1EN1	0.01
Yellow	OPYS1EN1	0.01
Silver	OPSS1EN1	0.01
Grey	OPGS1EN1	0.01
Printed plates for OH 2_ handles. Text: MAIN SWITCH.		
Black	OPB2EN1	0.01
Yellow	OPY2EN1	0.01
Silver	OPS2EN1	0.01
Grey	OPG2EN1	0.01

Accessories for manual disconnect switches OT16...160

Dimensional drawings for legend plates and labelling accessories



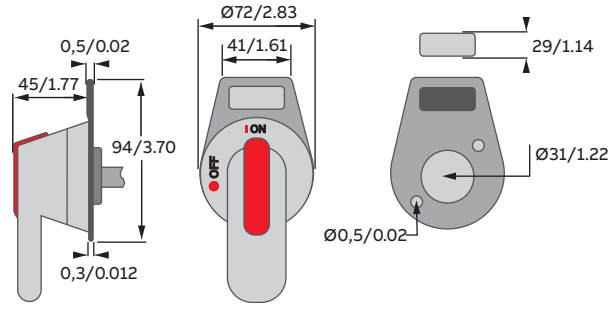
OPB3

Legend plates for pistol handles

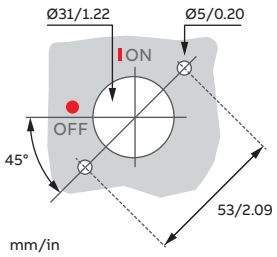
Colour	Text	Type	Weight/ unit [kg]
Holder			
Black		OPB3	0.01
Yellow		OPY3	0.01
Lettering plate suitable for holder			
Silver	Main Switch	OPX3EN1	0.01
Silver	Customer`s own text	OPX3/TEXT	0.01

Dimensions of legend plate for pistol handles

mm/in



Door drilling for OP_ handles:



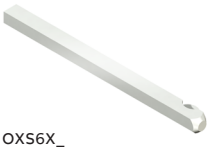
Labelling accessories

Suitable for OT63F, OT80F, OT100F

Description	Type	Weight/ unit [kg]
Label carrier, snap-on fixing	ST	0.01
Description label, in a sheet 250 labels	ST-E	0.01

Accessories for manual disconnect switches OT16...160

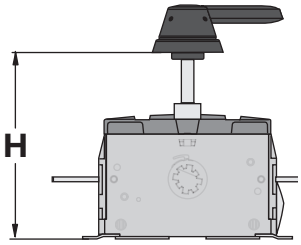
Ordering information for shafts



OXS6X_



OX6X_

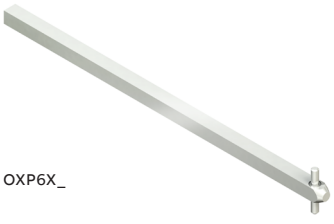


OXP_X_

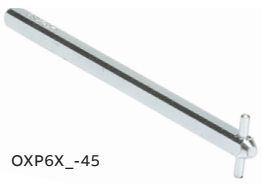
Shafts

Suitable for all the switches in this section, OT16...100F and OT160G.
Shaft diameter 6 mm.

Shaft length [mm]	Mounting depth H [mm]	Type	Weight/ unit [kg]
For selector handles			
85	See dimension drawings	OXS6X85	0.02
105		OXS6X105	0.02
120		OXS6X120	0.03
130		OXS6X130	0.03
160		OXS6X160	0.04
180		OXS6X180	0.04
250		OXS6X250	0.05
330		OXS6X330	0.05
For round padlockable handles			
60	See dimension drawings	OX6X60	0.02
85		OX6X85	0.02
105		OX6X105	0.02
115		OX6X115	0.03
130		OX6X130	0.03
155		OX6X155	0.04
200		OX6X200	0.04
300		OX6X300	0.05
For pistol handles			
150	See dimension drawings	OXP6X150	0.05
170		OXP6X170	0.05
265		OXP6X265	0.08
400		OXP6X400	0.12



OXP6X_



OXP6X_-45

Twisted shafts

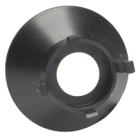
Twisted shafts for pistol handles, the shaft position is rotated 45 degrees.
Shaft diameter 6 mm.

Shaft length [mm]	Mounting depth H [mm]	Type	Weight/ unit [kg]
150	See dimension drawings	OXP6X150-45	0.05
170		OXP6X170-45	0.05
265		OXP6X265-45	0.08
430		OXP6X430-45	0.13

-When using long shafts, it is recommended to use shaft support OETLZX58.

Accessories for manual disconnect switches OT16...160

Ordering information for shaft accessories

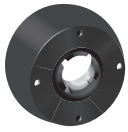


OZG71

Shaft alignment ring

Improves the alignment of the handle.

Suitable for handle	Colour	Type	Weight/ unit [kg]
Selector handles OH_1...3	Black	OHZX11	0.23
Round padlockable handle OZ371P_	Black	OZG71	0.05



OHZX14

Extension ring for pistol handles

Improves the alignment of the handle.

Suitable for handle	Colour	Type	Weight/ unit [kg]
OHB_	Black	OHZX14	0.06

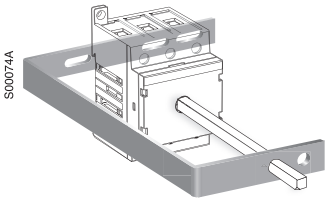


OETLZX58

Shaft support for long shafts

Supporting 6 mm shaft longer than 400 mm.

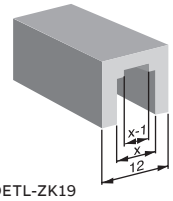
Suitable for switches	Type	Weight/ unit [kg]
OT16...100F	OETLZX58	0.10



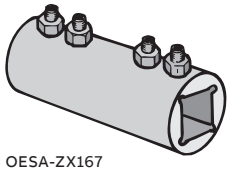
OETL-ZX58

Shaft accessories

Accessory Type	Description	Type	For Use On	Weight
Shaft Adapter	Adapts one end of a 6mm shaft to 12mm. The adapter can be placed inside the extension coupler OETLZX95	OETL-ZK19	6mm shafts	
Shaft Extension Coupler	Joins two shafts together for applications where extended length is required	OESA-ZX167 OETL-ZX95	6mm shafts 12mm shafts	0.26 0.26



OETL-ZK19
(X = 6mm)



OESA-ZX167
OETL-ZX95

Accessories for manual disconnect switches OT16...160

Ordering information for auxiliary contacts



OA1G_



OA2G11





Auxiliary contact blocks for OT16...100F/FT_ and OT160G_, IP20

Contact numbering according to EN 50013. Snap-on mounting to the side of the switch. I_{th} = 16A, cable cross section max. 2 x 2.5 mm². Early-break type OA1G10. Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.

Suitable for switches	Function	Type	Weight/ unit [kg]
Mountable on left side, max. 2 pcs			
OT16...100F_, FT_	1NC	OA1G01	0.03
	1NC	OA1G01AU[1)]	0.03
Mountable on the right side, max. 2 pcs			
OT16...100F_, FT_	1NO	OA1G10	0.03
	1NO	OA1G10AU[1)]	0.03
Mountable on left side, max. 4 pcs			
OT160G_ and OT160GT_	1NC	OA1G01	0.03
	1NC	OA1G01AU[1)]	0.03
Mountable, on the right side, max. 4 pcs			
OT160G_ and OT160GT_	1NO	OA1G10	0.03
	1NO	OA1G10AU[1)]	0.03
Mountable on both sides, simultaneous function with the main contacts			
OT16...40F_: max. 2NO+2NC, OT63...100F: max. 4NO+4NC[3)]			
OT16...100F_	1NO+1NC	OA2G11[2)]	0.03

[1)] Types _AU are gold plated for extremely difficult circumstances and low voltages.
[2)] Not mountable on the same side as the fourth pole.
[3)] Contact numbering: (83) (43) (53) 13 21 (61) (31) (71)
(84) (44) (54) 14 22 (62) (32) (72)

Accessories for manual disconnect switches OT16...160

Technical data for auxiliary contacts

Performance data of auxiliary contacts according to IEC 60947-5-1

For OA1G_, OA2G_, OA3G_, OA8G_

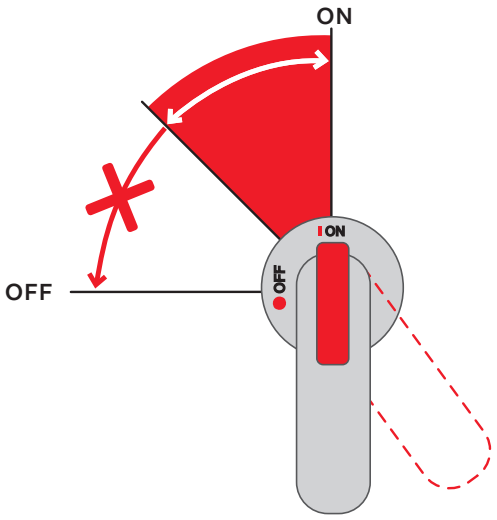
AC15		DC12			DC13	
U_e/[VAC]	I_e/[A]	U_e/[VDC]	I_e/[A]	P/[W]	I_e/[A]	P/[W]
230	6	24	10	240	2	50
400	4	72	4	290	0.8	60
415	4	125	2	250	0.55	70
690	2	250	0.55	140	0.27	70
		440	0.1	44		

For OA1G_, OA2G_, OA3G_, OA8G_

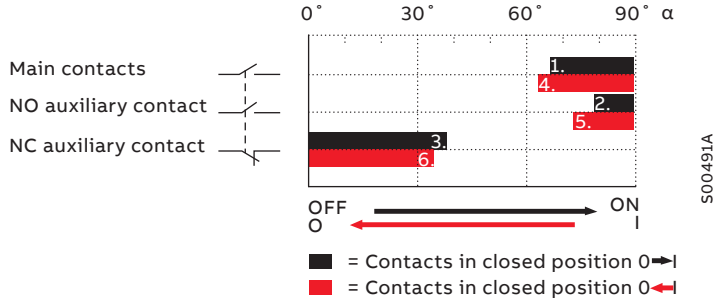
U_i/[V]	690
U_{imp}/[kV]	4
Pollution degree	3
I_{th}/[A]	16
Cable size	1...2 x 0.75...2.5 mm²
Maximum fuse	16A / gG
NEMA	A600, R300, wire size: 18 - 14 AWG, 1(2)

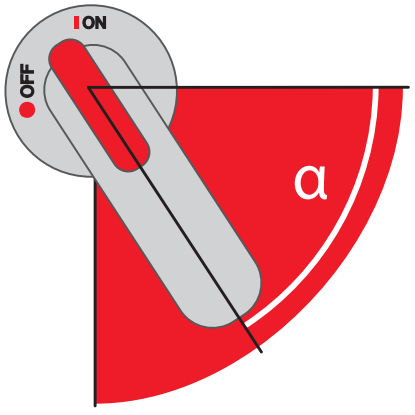
Handle indications and functions

The handle indicates the position of the main contacts of the switch with complete reliability in all situations. If the contacts are welded together, the handle does not reach the OFF-position but remains between ON and OFF, maintaining the door interlock and preventing padlocking.



ON and OFF-functions of main and auxiliary contacts





Closing:
1. Main contacts close
2. NO auxiliary contacts close
3. NC auxiliary contacts open

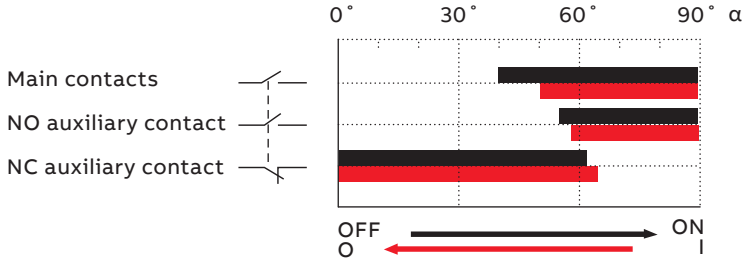
Opening:
4. Main contacts open
5. NO auxiliary contacts open
6. NC auxiliary contacts close

Accessories for manual disconnect switches OT16...160

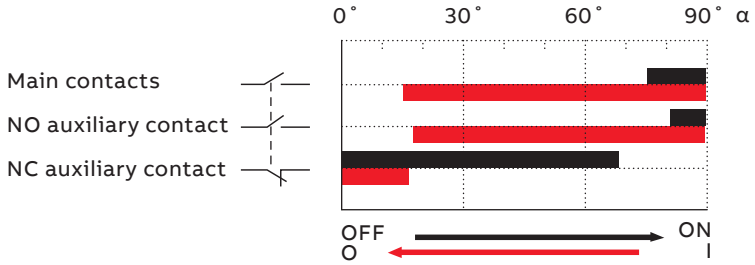
Technical data for auxiliary contacts

ON and OFF-functions of main and auxiliary contacts OT16...160
Auxiliary contact OA2G11, simultaneous function with main contacts.

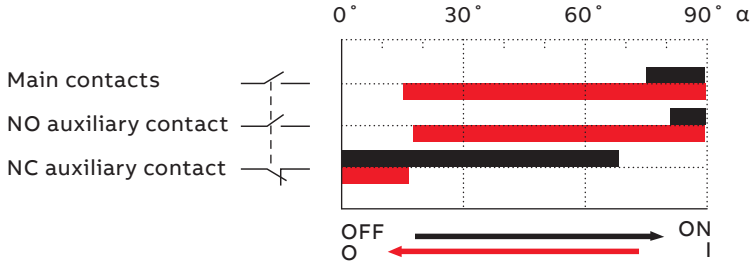
OT16...40



OT63...100



OT160G



Auxiliary contact	Contact configuration
OA1G10	1NO
OA1G01	1NC
OA2G11*	1NO+1NC

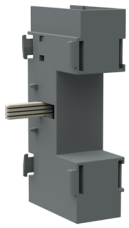
* Auxiliary contact OA2G11, simultaneous function with main contacts.
OA1G10 early break type, N.O. auxiliary contacts break before the main contacts open

Accessories for manual disconnect switches OT16...160

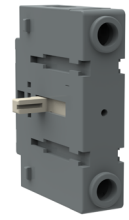
Ordering information for fourth poles



OTPL125FD



OTPS125FD



OTPS40FDN1



OTPL80FP

Fourth poles, simultaneous function with the main contacts OT16...100[1)]

Mountable on the side of the 3-pole switch without wide phase distances.



Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/ unit [kg]
For DIN rail and base mounted switches				
OT16, OT25, OT40F3/F6	OTPS40FPN1*	40	600	0.03
	OTPS40FPN2*	40	600	0.06
OT63...80F3/F6	OTPS80FP	80	600	0.14
OT30, OT60F3/F6	OTPS60FP	60	600	0.30
OT100F3/F6	OTPS125FP	100	600	0.30
For door mounted switches				
OT16, OT25, OT40FT3	OTPS40FDN1*)	40	600	0.06
	OTPS40FDN2*)	40	600	0.14
OT63...80FT3	OTPS80FD	80	600	0.30
OT30, OT60FT3	OTPS60FD	60	600	0.30
OT100FT3	OTPS125FD	100	600	0.30

Fourth poles, late-break and early-make

Mountable on the side of the switch.

There is a time difference between the main poles and the fourth pole.



Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/ unit [kg]
For OT disconnect switches				
OT16, OT25, OT40F3/F6	OTPL40FP	40	600	0.03
OT63...80F3/F6	OTPL80FP	80	600	0.06
OT30, OT60F3/F6	OTPL60FP	60	600	0.14
OT100F3/F6	OTPL125FP	100	600	0.14
For door mounted switches				
OT16, OT25, OT40FT3	OTPL40FD	40	600	0.03
OT63...80FT3	OTPL80FD	80	600	0.06
OT30, OT60, OT100FT3	OTPL125FD	100	600	0.14

* N1=On the left side of the switch
N2=On the right side of the switch

1) 4th poles are not available for OT160G_ range. If 4 poles switch is needed, OT160G04 can be ordered.

Accessories for manual disconnect switches OT16...160

Ordering information for neutral and earth terminals



OTPD40FP



OTPD80FP



OTPD80FD



OTPE40FP



OTPE125FP



OTPE125FD

Fixed neutral

Mountable on the side of the switch.

Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/ unit [kg]
For base mounted switches				
OT16, OT25, OT40F3/F6	OTPN40FP	40	600	0.03
OT63...80F3/F6	OTPN80FP	80	600	0.06
OT30, OT60F3/F6	OTPN60FP	60	600	0.14
OT100F3/F6	OTPN125FP	100	600	0.14
For door mounted switches				
OT16, OT25, OT40FT3	OTPN40FD	40	600	0.03
OT63...80FT3	OTPN80FD	80	600	0.06
OT30, OT60FT3	OTPN60FD	60	600	0.14
OT100FT3	OTPN125FD	100	600	0.14

Detachable neutral

Mountable on the side of the switch.

Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/ unit [kg]
For DIN rail and base mounted switches				
OT16, OT25, OT40F3/F6	OTPD40FP	40	600	0.03
OT63...80F3/F6	OTPD80FP	80	600	0.06
OT30, OT60F3/F6	OTPD60FP	60	600	0.14
OT100F3/F6	OTPD125FP	100	600	0.14
For door mounted switches				
OT63...80FT3	OTPD80FD	80	600	0.06

Protective earth

Mountable on the side of the switch.



Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/ unit [kg]
For OT disconnect switches				
OT16, OT25, OT40F3/F4/F6	OTPE40FP	40	600	0.03
OT63...80F3/F4/F6	OTPE80FP	80	600	0.06
OT30, OT60F3/F4/F6	OTPE60FP	60	600	0.14
OT100F3/F4/F6	OTPE125FP	100	600	0.14
For door mounted switches				
OT16, OT25, OT40FT3	OTPE40FD	40	600	0.03
OT63...80FT3	OTPE80FD	80	600	0.06
OT30, OT60FT3	OTPE60FD	60	600	0.14
OT100FT3	OTPE125FD	100	600	0.14

Accessories for manual disconnect switches OT16...160

Ordering information for terminal shrouds



OTS40T3



OTS63T3



OTS125T3



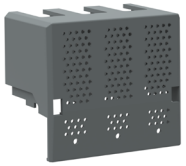
OTS63T1



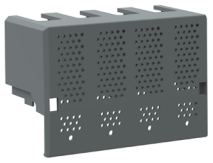
OTS125T1



OTS40T1



OTS160G1L3



OTS160G1L4

Terminal shrouds for OT switches, snap-on mounting, transparent

Suitable for switches	Type	Weight/ unit [kg]
For 3-pole OT switches		
OT16, OT25, OT40FT3	OTS40T3	0.01
OT63...80F3, FT3	OTS63T3	0.01
OT100F3, FT3	OTS125T3	0.01
OT160G_, GT_	OTS160G1L3	0.02
For 1 to 4-pole OT switches, shroud for single pole and for fourth pole		
OTP_40F_	OTS40T1	0.01
OTP_80F_	OTS63T1	0.01
OTP_60F, OTP_125F	OTS125T1	0.01
For 4 pole OT160G_switches		
OT100G, GT	OTS160G1L4	0.03

Accessories for manual disconnect switches OT16...160

Ordering information for conversion kits



OWP6D40



OWP6D80



OWP6D125



OTZW8



OWC6D40



OWC6D125



OESAZW1

6 and 8-pole switch mechanism

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
Parallel attachment for connecting two 3- or 4-pole switches			
The switches work simultaneously. Mounting directly on the top of two disconnect switches, snap-on mounting. The switch size is printed on stickers for the different switch sizes. The fourth pole or auxiliary contacts can be mounted on the outer side of the combination.			
OT16...40		OWP6D40	0.03
OT63...80		OWP6D80	0.03
OT100		OWP6D125	0.03
Attachment levers for connecting two 3- or 4-pole switches			
Attachment levers provided with holes, enabling different shaft distances. The combination of 3 or 4-pole switches can be mounted either horizontally or vertically.			
OT16...40	45+(0...12)x15	OTZW8	0.17
OT63...80	60+(0...11)x15	OTZW8	0.17
OT100	75+(0...10)x15	OTZW8	0.17

See the table of the handles and shafts included in the conversion kits on page 7/20.

Change-over switch mechanism

Two switches (3 or 4-pole) are connected with a mechanism operating between I-O-II -positions. The modular change-over switches can be built by adding a compact snap-on kit on the top of two disconnect switches. The kits do not require any additional foot print area, only the height is increased 12 mm.

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
Change-over kits			
OT16...40		OWC6D40	0.03
OT63...80		OWC6D80	0.07
OT100		OWC6D125	0.09
Attachment levers			
OT16...160	90+(0...10)x15	OESAZW1	0.78

See the table of the handles and shafts included in the conversion kits on page 7/20.

Accessories for manual disconnect switches OT16...160

Ordering information for conversion kits



OTZW17

By-pass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. Three 3 or 4-pole switches needed.

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
OT16...160G	Between 1 and 2: 90+(0...6)x15 Between 1 and 3: 90+(0...10)x15	OTZW17	0.88

See the table of the handles and shafts included in the conversion kits on page 7/20.



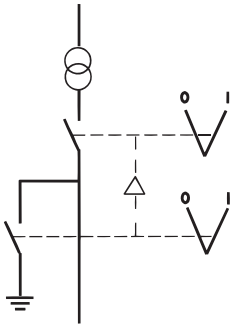
OTZW24

Mechanical interlock mechanism

Prevents one switch from moving to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from moving to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break).

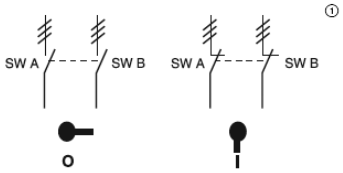
Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
OT16...100	100	OTZW24	0.08
OT160G	190	OTZW10	1

See the table of the handles and shafts included in the conversion kits on page 7/20.



Mechanical interlock

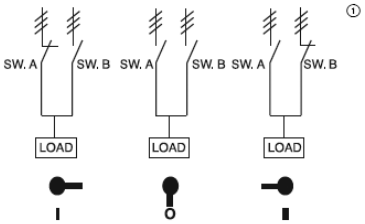
6 or 8 pole



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

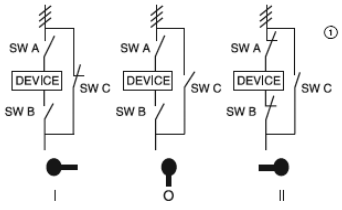
Transfer



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

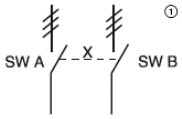
Bypass



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed
O = Open

Mech. interlock



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

Accessories for manual disconnect switches OT16...160

Ordering information for conversion kits

Shafts and handles for conversion kits

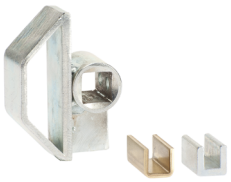
Conversion kit type	Suitable for switches	To be ordered separately		Included in conversion kit delivery		The standard handle / shaft of one of the combined switches can be used	
		Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches							
OWP6D40	OT16...40	x (shaft dia 6 mm)	OHBS1A_	-	-	-	-
OWP6D80	OT63...80	x (shaft dia 6 mm)	OHBS1A_	-	-	-	-
OWP6D125	OT100	x (shaft dia 6 mm)	OHBS1A_	-	-	-	-
OWP6D40	OT16...40	x (shaft dia 6 mm)	OHB45J6	-	-	-	-
OWP6D80	OT63...80	x (shaft dia 6 mm)	OHB45J6	-	-	-	-
OWP6D125	OT100	x (shaft dia 6 mm)	OHB45J6	-	-	-	-
OTZW8	OT16	x	x	-	-	-	-
OESAZW2	OT160	-	-	-	-	x	x
Change-over switches							
OWC6D40	OT16...40	x (shaft dia 6 mm)	OHBS2AJE011	-	-	-	-
OWC6D80	OT63...80	x (shaft dia 6 mm)	OHBS2AJE011	-	-	-	-
OWC6D125	OT100	x (shaft dia 6 mm)	OHBS2AJE011	-	-	-	-
OWC6D40	OT16...40	x (shaft dia 6 mm)	OHB45J6E311	-	-	-	-
OWC6D80	OT63...80	x (shaft dia 6 mm)	OHB45J6E311	-	-	-	-
OWC6D125	OT100	x (shaft dia 6 mm)	OHB45J6E311	-	-	-	-
OESAZW1	OT160	-	-	-	-	x	x
By-pass switches							
OTZW17	OT16...160	-	-	x (3 pcs)	OHB80J6E011		
Mechanical interlock							
OTZW24	OT16...100	-	-	-	-	x	x

Accessories for manual disconnect switches OT16...160

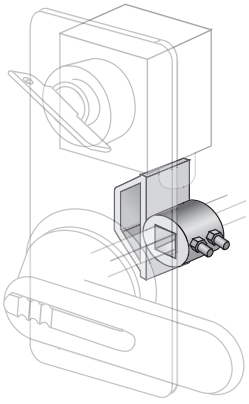
Ordering information for locking accessories



OHZX4



OETLZW16



S00059A

OETL-ZW16

Locking accessories

Door interlock bracket for pistol handles

Prevents defeating the door interlock.

Suitable for switches	Type	Weight/ unit [kg]
For pistol handles OH_45...275	OHZX4	0.03

Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Interlock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

Suitable for switches	Type	Weight/ unit [kg]
OT16...160	OETLZW16	0.17

Accessories for manual disconnect switches OT200...2000

Ordering information for handles



OHY_



OHB_



OHG125J12

Pistol handles for base and DIN-rail mounted switches

IP65, NEMA 1, 3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation.

Suitable for switches	Colour	Handle length [mm]	Indication	Type	Weight/ unit [kg]
Suitable for shaft diameter 6 mm					
OT200U	Black	65	I-0, ON-OFF	OHB65J6	0.12
	Red-yellow	65	I-0, ON-OFF	OHY65J6	0.12
	Grey	65	I-0	OHG65J6	0.12
	Black	80	I-0, ON-OFF	OHB80J6	0.14
	Red-yellow	80	I-0, ON-OFF	OHY80J6	0.14
	Grey	80	I-0	OHG80J6	0.14
	Black	65	Test-OFF-ON/Test-0-I	OHB65J6T	0.12
	Red-yellow	65	Test-OFF-ON/Test-0-I	OHY65J6T	0.12
Suitable for shaft diameter 12 mm					
OT400U	Black	95	I-0, ON-OFF	OHB95J12	0.16
	Red-yellow	95	I-0, ON-OFF	OHY95J12	0.16
	Grey	95	I-0	OHG95J12	0.16
	Black	95	Test-OFF-ON/Test-0-I	OHB95J12T	0.16
	Red-yellow	95	Test-OFF-ON/Test-0-I	OHY95J12T	0.16
OT600U	Black	125	I-0, ON-OFF	OHB125J12	0.17
	Red-yellow	125	I-0, ON-OFF	OHY125J12	0.17
	Grey	125	I-0	OHG125J12	0.17
	Black	145	I-0, ON-OFF	OHB145J12	0.17
	Red-yellow	145	I-0, ON-OFF	OHY145J12	0.17
	Grey	145	I-0	OHG145J12	0.17
	Black	125	Test-OFF-ON/Test-0-I	OHB125J12T	0.17

-Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.
The door is interlocked when the non-defeatable handle is padlocked.
-Consult us for NEMA4/4X versions.

Accessories for manual disconnect switches OT200...2000

Ordering information for handles



OHB150/200J12P



OHB274/330J12



OHY200J12P



OHY175J12

Pistol handles

Padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation.

Suitable for switches	Colour	Handle length [mm]	Indication	Type	Weight/ unit [kg]
Suitable for shaft diameter 12 mm					
IP65, NEMA 1, 3R, 12, double grip					
OT800...1200U	Black	2x150	I-0, ON-OFF	OHB150J12P	0.17
	Red-yellow	2x150	I-0, ON-OFF	OHY150J12P	0.17
	Black	2x200	I-0, ON-OFF	OHB200J12P	0.40
	Red-yellow	2x200	I-0, ON-OFF	OHY200J12P	0.40
	Black	2x200	Test-OFF-ON/Test-0-I	OHB200J12PT	0.40
	Red-yellow	2x200	Test-OFF-ON/Test-0-I	OHY200J12PT	0.04
NEMA 4X, double grip					
OT800...1200U	Black	2x200	I-0, ON-OFF	OHB200L12P	0.40
	Red-yellow	2x200	I-0, ON-OFF	OHY200L12P	0.40
IP65, NEMA 1, 3R, 12					
OT800...2000U	Black	274	I-0, ON-OFF	OHB274J12	0.54
	Red-yellow	274	I-0, ON-OFF	OHY274J12	0.54
	Black	330	I-0, ON-OFF	OHB330J12	0.58
	Red-yellow	330	I-0, ON-OFF	OHY330J12	0.58
	Black	274	Test-OFF-ON/Test-0-I	OHB274J12T	0.54
	Black	330	Test-OFF-ON/Test-0-I	OHB330J12T	0.58

-Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.
The door is interlocked when the non-defeatable handle is padlocked.
-NEMA 4, 4x pistol handles available on request.
-Handles padlockable in ON and OFF positions available on request.



OHM65L6



OHM200L12P

Stainless steel pistol handles

IP66 (NEMA 4X). Material: AISI 316. Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position.

Colour	Handle length [mm]	Indication	Type	Weight/ unit [kg]
Suitable for shaft diameter 6 mm				
Grey	65	I-O/ON-OFF	OHM65L6	0.73
Suitable for shaft diameter 12 mm				
Grey	125	I-O/ON-OFF	OHM125L12	0.76
Grey	175	I-O/ON-OFF	OHM175L12	0.83
Grey	275	I-O/ON-OFF	OHM275L12	0.96
Grey	2x200	I-O/ON-OFF	OHM200L12P	2.00

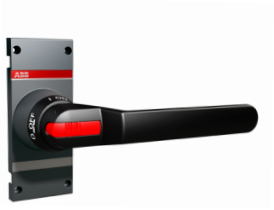
-Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position.
The door interlocking can be defeated in IP65 types to allow authorized personnel access for inspection.
The door is interlocked when the non-defeatable handle is padlocked.

Accessories for manual disconnect switches OT200...2000

Ordering information for handles



OTV400EK



OTV1000EK



OTVY400EK



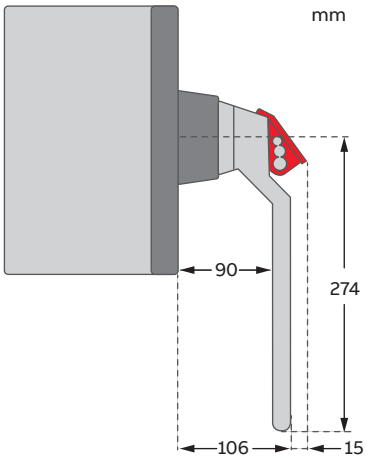
OTV1000EPK

Direct mount handles

Includes a shaft and a mechanism cover. Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position.

Suitable for switches	Colour	Handle length [mm]	Type	Weight/ unit [kg]
OT200U	Black	65	OTV250EK	0.10
	Red-yellow	65	OTVY250EK	0.10
OT400U	Black	95	OTV400EK	0.20
	Red-yellow	95	OTVY400EK	0.20
OT600U	Black	145	OTV800EK	0.30
	Red-yellow	145	OTVY800EK	0.30
OT800...2000U	Black	274	OTV1000EK	0.75
OT800...2000U	Black	2x200	OTV1000EPK	0.90

OTV1000EK dimensions



Accessories for manual disconnect switches OT200...2000

Dimensional drawings for handles



OHB65J6E00S



OHY65J6E00S

Handles for side operated disconnect switches

IP65, Nema type 1, 3R, 12. Plastic handles. For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position when the handle is mounted on the door. The position indications are rotated 90°.

Colour	Handle length [mm]	Indication	Type	Weight/ unit [kg]
Suitable for shaft diameter 6 mm				
Black	65	I-O/ON-OFF	OHB65J6E00S	0.12
Red-yellow	65	I-O/ON-OFF	OHY65J6E00S	0.12
Grey	65	I-O	OHG65J6E00S	0.12
Black	65	Test/I-O/ON-OFF	OHB65J6TE00S	0.12
Red-yellow	65	Test/I-O/ON-OFF	OHY65J6TE00S	0.12
Grey	65	Test/I-O	OHG65J6TE00S	0.12
Suitable for shaft diameter 12 mm				
Black	145	I-O/ON-OFF	OHB145J12E00S	0.17

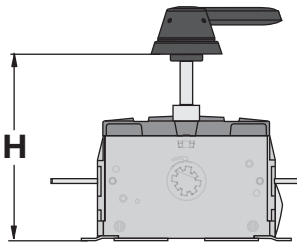
-Door interlocking in ON-position means that the door on which the handle is mounted can not be opened, when the handle is in ON-position.The door interlocking can be defeated to allow authorized personnel access for inspection. The door is interlocked when the non-defeatable handle is padlocked.

Accessories for manual disconnect switches OT200...2000

Ordering information for shafts



OXP6X_



OXP_X_

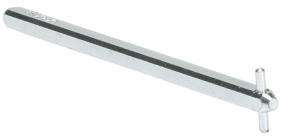
Shafts for pistol handles

For switches	Shaft length [mm]	Mounting depth H [mm]	Type	Weight/ unit [kg]
Shaft diameter 6 mm				
OT200U[1)]	130	109...174	OXP6X130	0.04
	150	129...194	OXP6X150	0.05
	161	140...205	OXP6X161	0.05
	210	189...254	OXP6X210	0.06
	290	269...334	OXP6X290	0.08
Shaft diameter 12 mm				
OT400U	166	146...226	OXP12X166	0.20
	185	165...245	OXP12X185	0.20
	250	230...310	OXP12X250	0.28
	280	260...340	OXP12X280	0.30
	325	305...385	OXP12X325	0.36
	395	375...455	OXP12X395	0.43
	465	445...525	OXP12X465	0.51
	535	515...595	OXP12X535	0.59
Shaft diameter 12 mm				
OT600U	185	165...245	OXP12X185	0.20
	250	230...345	OXP12X250	0.28
	280	260...375	OXP12X280	0.30
	325	305...420	OXP12X325	0.36
	395	375...490	OXP12X395	0.43
	465	445...560	OXP12X465	0.51
	535	515...630	OXP12X535	0.59
Shaft diameter 12 mm				
OT800...1200U[1)]	250	221...350	OXP12X250	0.28
	280	251...380	OXP12X280	0.30
	325	296...425	OXP12X325	0.36
	395	366...495	OXP12X395	0.43
	465	436...565	OXP12X465	0.51
	535	506...635	OXP12X535	0.59
Shaft diameter 12 mm				
OT1600...2000U	280	251...380	OXP12X280	0.30
	325	296...425	OXP12X325	0.36
	395	366...495	OXP12X395	0.43
	465	436...565	OXP12X465	0.51
	535	506...635	OXP12X535	0.59

[1)] Longer shafts on request

Accessories for manual disconnect switches OT200...2000

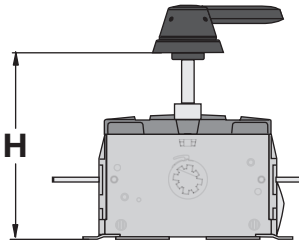
Ordering information for shafts



OXP6X_-45



OXP12X_-45



OXP_X_

Twisted shafts for pistol handles

Twisted shafts for pistol handles. Shaft is rotated 45 degrees.

For switches	Shaft length [mm]	Mounting depth H [mm]	Type	Weight/ unit [kg]
Shaft diameter 6 mm				
OT200U	130	109...174	OXP6X130-45	0.04
	150	129...194	OXP6X150-45	0.05
	210	189...254	OXP6X210-45	0.06
	290	269...334	OXP6X290-45	0.08
Shaft diameter 12 mm				
OT400...600U	250	230...310	OXP12X250-45	0.28
	280	260...340	OXP12X280-45	0.30
	325	305...385	OXP12X325-45	0.36
	395	445...525	OXP12X395-45	0.43
	465	439...519	OXP12X465-45	0.51
	535	515...595	OXP12X535-45	0.59
Shaft diameter 12 mm				
OT800...1200U	250	226...355	OXP12X250-45	0.28
	280	256...385	OXP12X280-45	0.30
	325	301...430	OXP12X325-45	0.36
	395	371...500	OXP12X395-45	0.43
	465	441...570	OXP12X465-45	0.51
	535	511...640	OXP12X535-45	0.59
Shaft diameter 12 mm				
OT1600...2000U	280	256...385	OXP12X280-45	0.30
	325	301...430	OXP12X325-45	0.36
	395	371...500	OXP12X395-45	0.43
	465	441...570	OXP12X465-45	0.51
	535	511...640	OXP12X535-45	0.59

Accessories for manual disconnect switches OT200...2000

Ordering information for shafts



OHZX10

Shaft alignment ring

Improves the handle operation if a handle and a shaft have been poorly aligned.

Suitable for handle	Colour	Type	Weight/ unit [kg]
For pistol handles OH_65...275J6...12	Black	OHZX10	0.23

(1) Fits all pistol grip handles, mounts on the inside of the enclosure door with provided hardware.



OXT20X210X

Extension ring for pistol handles

Improves the aligment between handle and panel.

Suitable for handle	Colour	Type	Weight/ unit [kg]
OHB_	Black	OHZX14	0.06

Shaft support for long shafts

Supporting 12 mm shafts longer than 280 mm.

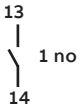
Suitable for switches	Type	Weight/ unit [kg]
OT1200...2000	OXT20X210X	1.50

Accessories for manual disconnect switches OT200...2000

Ordering information for auxiliary contacts



OA3G01



1NO



1NC



OEA28

Auxiliary contact blocks for OT200...OT2000, IP20
Contact numbering according to EN 50013. Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.

In types with auxiliary contacts mountable under the mechanism cover, the "test" contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position (45° over the OFF-position). The "test indication" contacts operate only when the handle is turned to TEST-position. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, "test" or "test indication" contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place (see mounting instructions). In order to activate the "test" and "test indication" features a handle with test function is required. The test contacts can be used as standard auxiliary contacts as well.

Suitable for switches	Function	Type	Weight/ unit [kg]
Mounting on the left side of the switch			
Max. 8 auxiliary contact blocks with the OEA28 module.			
OT200...2000U	1NO	OA1G10	0.03
	1NO	OA1G10AU[1)]	0.03
	1NC	OA3G01	0.03
	1NC	OA3G01AU[1)]	0.03
Mounting under the mechanism cover			
Max. 4 test contacts or 2 test contacts + 2 test indication contacts			
OT200U	1NO, early break	OA1G10	0.03
	1NO, early break	OA1G10AU[1)]	0.03
	1NC, early make	OA3G01	0.03
	1NC, early make	OA3G01AU[1)]	0.03
Max. 4 test contacts + 4 test indication contacts Switches with _K handle: 2+4 auxiliary contacts with _P handle: 4+4 auxiliary contacts			
OT400...600U	1NO, early break	OA1G10	0.03
	1NO, early break	OA1G10AU[1)]	0.03
	1NC, early make	OA3G01	0.03
	1NC, early make	OA3G01AU[1)]	0.03
Max 4 test indication contacts + 6 test contacts + 2 early operation test contacts			
OT800...2000U	1NO, early break	OA1G10	0.03
	1NO, early break	OA1G10AU[1)]	0.03
	1NC, early make	OA3G01	0.03
	1NC, early make	OA3G01AU[1)]	0.03

[1)]Types _AU are gold plated for extremely difficult circumstances and low voltages.

Module for auxiliary contacts with OT200U...2000U
Screw mounting to the left side of the switch.

Suitable for switches	Type	Weight/ unit [kg]
OT200U...2000U	OEA28	0.04

-Does not fit side operated switches.

See next pages for performance data, functions and contact timing.

Accessories for manual disconnect switches OT200...2000

Technical data for auxiliary contacts

Performance data of auxiliary contacts according to IEC 60947-5-1

For OA1G_, OA3G_

AC15		DC12			DC13	
U_e/[VAC]	I_e/[A]	U_e/[VDC]	I_e/[A]	P/[W]	I_e/[A]	P/[W]
230	6	24	10	240	2	50
400	4	72	4	290	0.8	60
415	4	125	2	250	0.55	70
690	2	250	0.55	140	0.27	70
		440	0.1	44		

For OA1G_, OA3G_

U_i/[V]	690
U_{imp}/[kV]	4
Pollution degree	3
I_{th}/[A]	16
Cable size	1...2 x 0.75...2.5 mm²
Maximum fuse	16A / gG
NEMA	A600, R300, wire size: 18 - 14 AWG, 1(2)

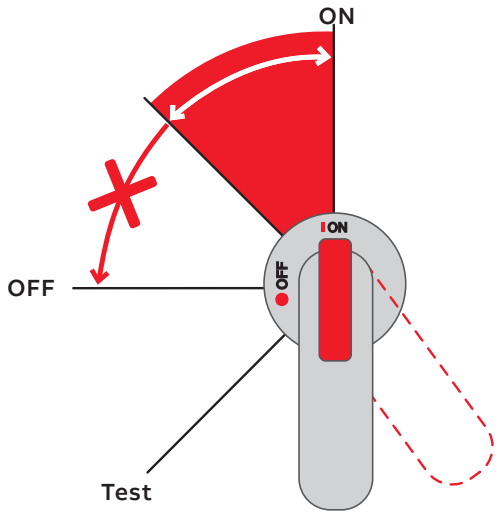
Function table of auxiliary contacts

Handle position	Main contacts	Aux./Test contacts N.O.	Test indication contact N.O.
Test	open	closed	closed
0	open	open	open
I	closed	closed	open

Handle indications and functions

The handle indicates the position of the main contacts of the switch with complete reliability in all situations. If the contacts are welded together, the handle does not reach the OFF-position but remains between ON and OFF, maintaining the door interlock and preventing padlocking.

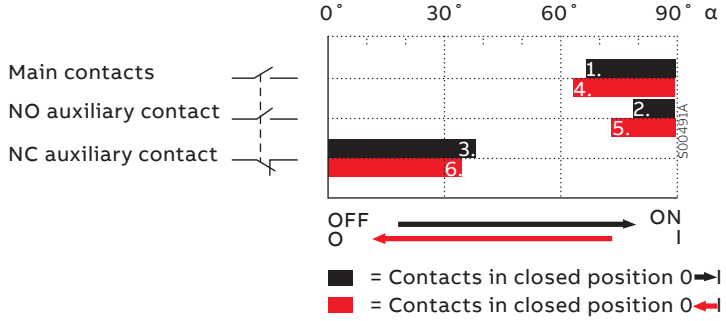
When operating the switch to the Test-position with a test handle, the test auxiliary contacts change position. The main contacts remain open.

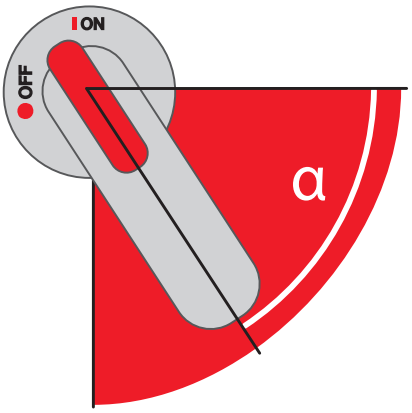


Accessories for manual disconnect switches OT200...2000

Technical data for auxiliary contacts

ON and OFF-functions of main and auxiliary contacts





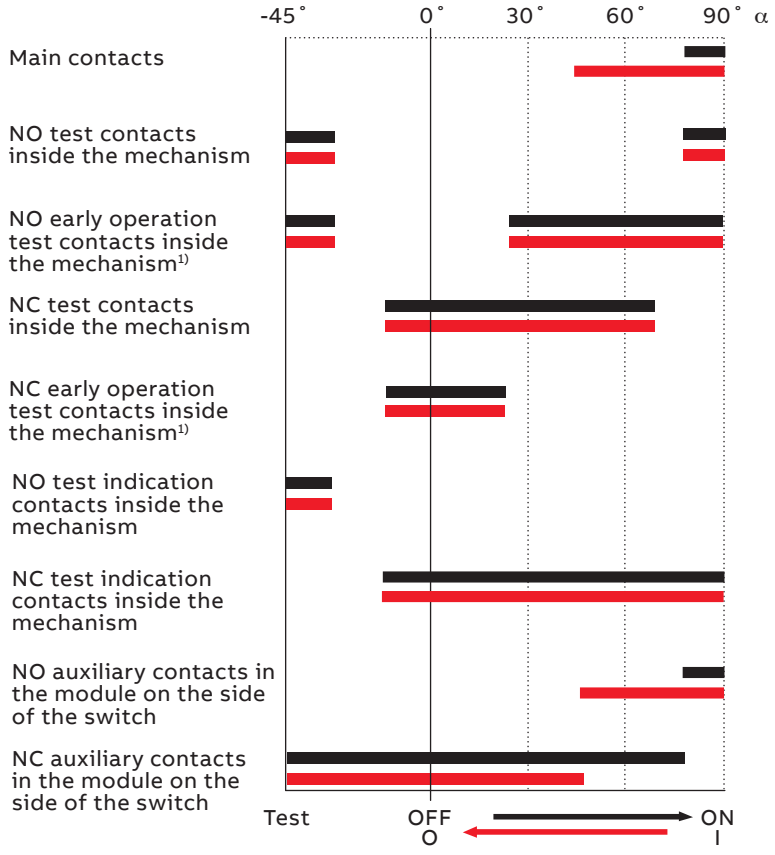
Closing:

1. Main contacts close
2. NO auxiliary contacts close
3. NC auxiliary contacts open

Opening:

4. Main contacts open
5. NO auxiliary contacts open
6. NC auxiliary contacts close

ON and OFF-functions of main and auxiliary contacts OT200...OT2000



Contact	Contact configuration
OA1G10	1NO
OA3G01	1NC

1) OT1200...2000 only

Accessories for manual disconnect switches OT200...2000

Ordering information for neutral terminals



OXN250



OXN400



OXN1250T

Neutral links

Detachable, mountable separately to the base plate.

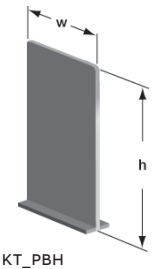
Suitable for switches	I_{th} [A]	Type	Weight/ unit [kg]
OT200U	250	OXN250	0.26
OT400U	400	OXN400	0.70
OT600U	800	OXN800T	0.96
OT1200...2000	1250	OXN1250T	2.20

Accessories for manual disconnect switches OT200...2000

Ordering information for mounting accessories



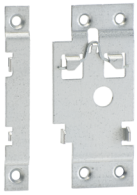
OTB_



KT_PBH



KT_PBL



OSGZD1

Phase separators

Grey plastic plate for maintaining 1 in/25.44 mm clearance between the phases without terminal shrouds. Snap-on mounting.

Suitable for switches	Type	Units/ type [pcs]	Weight/ type [kg]
OT600U, 3- and 4-pole	OTB800/6	6	0.35
OT800U...2000U, 3- and 4-pole	OTB1600/6	6	0.50

Phase barriers[1)]

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OT200...800 disconnect switches. 3-pole disconnect switches need 4 barriers and 4-pole disconnect switches need 6 barriers for full protection.

Suitable for switches	Number of poles	Height h [mm]	Cutting width w of the phase barrier [mm]	KT_codes	Units/ type [pcs]
OT200U	3	100	55	KT5PBL-3	4
	3	200	55	KT7PBH-3	4
	4	100	55	KT5PBL-4	6
	4	200	55	KT5PBH-4	6
OT400U	3	100	67	KT5PBL-3	4
	3	200	67	KT7PBH-3	4
	4	100	67	KT5PBL-4	6
	4	200	67	KT5PBH-4	6
OT600U...800U	3	100	90	KT5PBL-3	4
	3	200	90	KT7PBH-3	4
	4	100	90	KT5PBL-4	6
	4	200	90	KT5PBH-4	6

DIN-rail mounting kit

For mounting a fusible disconnect switch into 35 mm DIN-rail

Suitable for switches	Type	Units/ type [pcs]	Weight/ type [kg]
OT200U	OSGZD1	1	0.20

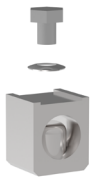
1) Phase barriers included in OT200U...2000U and OT200US...600US.

Accessories for manual disconnect switches OT200...2000

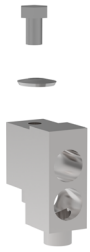
Ordering information for terminal lugs and terminal shrouds



OZXA200



OZXA400



OZXA800



OZXA1200



OTS1600G1L

For use on switch	Terminal lugs Catalog Number	Wire size	Wire type	Terminal lugs per kit	Terminal Shrouds Catalog number	Qty of shrouds per pkg	Qty of pkg for full protection
OT200UXX	OZXA-200	#4 - 300 kcmil	Cu/Al	6	OTS250G1L/3	3 x 1P	2
OT200UXX	OZXA-206T*	(6) #14 - #6 AWG	Cu/Al	3	Included with OZXA-206T	3 x 1P	2
OT400U03	OZXA-400	#2 - 600 kcmil	Cu/Al	6	OTS403	1 x 3P	2
OT400U03	OZXA-402	(2) #2 - 300 kcmil	Cu/Al	6	OTS403	1 x 3P	2
OT400UXX 2 to 4 poles	OZXA-400	#2 - 600 kcmil	Cu/Al	6	OTS400	1 x 3P	2
OT400UXX 2 to 4 poles	OZXA-402	(2) #2 - 300 kcmil	Cu/Al	6	OTS400	1 x 3P	2
OT400UXX	OZXA-406	(6) #14 - #6 AWG	Cu/Al	3	N/A	N/A	N/A
OT400U03	OZXA-33	(2) #4 - 500 kcmil	Cu/Al	6	OETL-ZX94	1 x 3P	2
OT600U03	OZXA-800	(2) #2 - 600 kcmil	Cu/Al	6	OTS603	1 x 3P	2
OT600UXX 2 to 4 poles	OZXA-800	(2) #2 - 600 kcmil	Cu/Al	6	OTS600	1 x 3P	2
OT800UXX	OZXA-1200	(4) #2 - 600 kcmil	Cu/Al	6	OTS160G1L/3	3 x 1P	2
OT1200UXX	OZXA-1200	(4) #2 - 600 kcmil	Cu/Al	6	OTS160G1L/3	3 x 1P	2
OT1600UXX	OZXA-1200	(4) #2 - 600 kcmil	Cu/Al	6	N/A	N/A	N/A
OT2000UXX	OZXA-1200	(4) #2 - 600 kcmil	Cu/Al	6	N/A	N/A	N/A

*OZXA-206T kit: (3) OZXA-175 + OTS250G1L/3

Terminal lug kits for Al- and Cu-cables for UL/CSA disconnect switches

One kit includes 6 pcs.

Suitable for switches	Cable cross section [mm²]	Type	Tightening torque [lb.in/Nm]	Weight/ unit [kg]	Weight/ unit [in]
OT200U_	AWG 4-300MCM	OZXA-200	275/31.1	0.04	0.09
OT400U_	AWG 2-600MCM	OZXA-400	375/42.4	0.05	0.12
OT600_	2 X AWG 2-600MCM	OZXA-800	500/56.5	0.21	0.45
OT800...2000U_	4 X AWG 2-600MCM	OZXA-1200	500/56.5	0.45	0.98

For ordering, please consult us.

Technical data for terminal lugs

Description	
UL approval file	E6207
Temperature Rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C

Accessories for manual disconnect switches OT200...2000

Ordering information for conversion kits

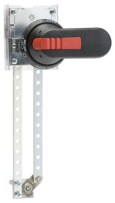


OESAZW2

6 and 8-pole switch mechanism

Attachment levers for connecting two 3- or 4-pole switches provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically.

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
OT160G, OT200U	45+(0...13)x15	OESAZW2	0.80
OT400...OT600U	60+(0...19)x20	0ETLZW9	1.10



OTZW25

Change-over switch mechanism

Attachment levers. Two switches connected with a mechanism operating into I-O-II -positions. Two 3 or 4-pole switches needed.

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
OT200U	210+(0...18)x20	OTZW25	2.80
OT400U	210+(0...11)x20	OETLZW11	3.00
OT600U	210+(0...20)x20	OETLZW12	4.60

See the table of the handles and shafts included in the conversion kits on page 7/20.



OTZW26

By-pass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. Three 3 or 4-pole switches needed.

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
OT200U	Between 1 and 2: 210+(0...9)x20 Between 1 and 3: 250+(0...9)x20	OTZW26	3.30
OT400...800U	Between 1 and 2: 210+(0...18)x20 Between 1 and 3: 250+(0...18)x20	OETLZW13	4.00



OETLZW14

Mechanical interlock mechanism

Prevents one switch from moving to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from moving to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break).

Suitable for switches	Shaft distance [mm]	Type	Weight/ unit [kg]
OT160G, OT200U	190	OTZW10	0.40
OT400U	250	OETLZW14	0.70
OT400...600U	300	OETLZW3	0.80
OT400...2000U	500	OETLZW15	1.24

See the table of the handles and shafts included in the conversion kits on page 7/20.

Accessories for manual disconnect switches OT200...2000

Ordering information for locking accessories



OHZX4



OETLZW5

Locking accessories

Door interlock bracket for pistol handles

Prevents defeating the door interlock.

Suitable for switches	Type	Weight/ unit [kg]
For pistol handles OH_45...275	OHZX4	0.03

Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Lock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

Suitable for switches	Type	Weight/ unit [kg]
OT400U...2000U	OETLZW5	0.14

Accessories for manual disconnect switches OT200...2000

Ordering information for mechanical interlocks



OTZT1A



OTZT2A



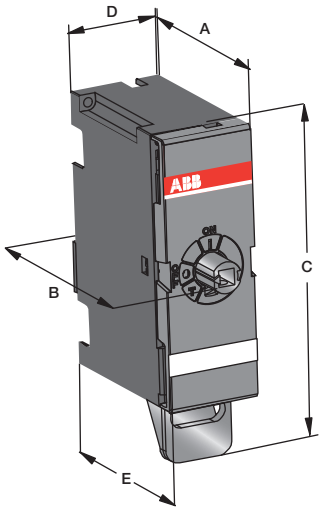
OTZT3A

Mechanism interlock kits and electrical interlocks

OT200... 2000 disconnect switches can be interlocked in the OFF-position using padlocks or a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8 mm.

Suitable for switches	Type	Weight/ unit [kg]
Interlocking in the OFF-position		
OT200U	OTZT1A	0.21
OT400U	OTZT2A	0.57
OT600U	OTZT3A	0.75
OT800U	OTZT4A	1.15
Interlocking in the OFF- and ON-positions		
OT200U	OTZT1L	0.21
OT400U	OTZT2L	0.57
OT600U	OTZT3L	0.75
OT800U...2000U	OTZT4L	1.15

Electrical and mechanical interlock OTZT_



[mm]	OTZT1_	OTZT2_	OTZT3_	OTZT4_
A	69	81	86	88
B	82	102	110	110
C	122	152	201	258
D	35	52	65	84
E	73	91	98	95

M00350/OTZT1-4_ A

Accessories for manual disconnect switches OT200...2000

Ordering information for electrical interlocks



PDAL2

Coils for OTZT_ and OTZM_ electrical interlocks

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF-position or both in the OFF- and ON-positions. The electrical interlock works using the “closed circuit principle”, meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON-position and switches with L-type interlocks cannot be turned to the ON- or OFF- positions

Suitable for switches	Type	Weight/ unit [kg]
AC coils		
24 VAC, 60Hz	PDAL2/24AC60Hz	0.15
110 VAC, 50Hz	PDAL2/110AC50Hz	0.15
110 VAC, 60Hz	PDAL2/110AC60Hz	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	0.15
208 VAC, 60Hz	PDAL2/208AC60Hz	0.15
230 VAC, 50Hz	PDAL2/230AC50Hz	0.15
240 VAC, 60Hz	PDAL2/240AC60Hz	0.15
DC coils		
24 VDC	PDAL2/24DC	0.15
48 VDC	PDAL2/48DC	0.15
60 VDC	PDAL2/60DC	0.15
110 VDC	PDAL2/110DC	0.15
125 VDC	PDAL2/125DC	0.15
220 VDC	PDAL2/220DC	0.15

Technical data for the coil		
Operating voltage	U = 0.8...1.1 x U_n	
Operating ambient temperature	- 40°C...+65°C	
Power consumption	with AC 6.5 W	
	with DC 9 VA	

Optional accessories for manual change-over switches
Ordering information for handle knobs


OHRS2_


OHRS3_


OHBS9_


OHRS9_


OHBS11

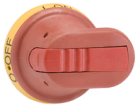

OHBS12

Suitable for switches	Colour	Type	Units/type [pcs]	Weight/unit [kg]
Padlockable in 0-position				
OT16...80F_C	Black	OHBS2/1	1	0.01
OT16...80F_C	Black	OHBS2	10	0.01
OT16...80F_C	Red	OHRS2/1	1	0.01
OT16...80F_C	Red	OHRS2	10	0.01
OT16...80F_C	Black	OHBS12/1	1	0.01
OT16...80F_C	Black	OHBS12	10	0.01
OT16...80F_C	Red	OHRS12/1	1	0.01
OT16...80F_C	Red	OHRS12	10	0.01
OT100F_C	Black	OHBS11/1	1	0.02
OT100F_C	Black	OHBS11	10	0.02
Non-padlockable				
OT16...80F_C	Black	OHBS3/1	1	0.01
OT16...80F_C	Black	OHBS3	10	0.01
OT16...80F_C	Red	OHRS3/1	1	0.01
OT16...80F_C	Red	OHRS3	10	0.01
OT100F_C	Black	OHBS9/1	1	0.01
OT100F_C	Black	OHBS9	10	0.01
OT100F_C	Red	OHRS9/1	1	0.01
OT100F_C	Red	OHRS9	10	0.01

Optional accessories for manual change-over switches
Ordering information for external handle



OHBS2_


OHB45J6_


OHB65J6_


OHY125J12_


OHB274J12_


OHB200J12P_

Selector handle, indication I-O-II
IP65, Nema type 1, 3R, 12. Padlockable in O -position with maximum three padlocks with bail diameter 5...8 mm (two lower holes) and 5...6.3 mm (the upper hole). Door interlock in I- and II-position and when padlocked in O-position.

Suitable for switches	Colour	Shaft diameter [mm]	Type	Delivery batch [pcs]	Weight/unit [kg]
OT16...100F_C	Black	6	OHBS2AJE011	1	0.07
OT16...100F_C	Red-yellow	6	OHYS2AJE011	1	0.07

Suitable for switches	Colour	Shaft diameter [mm]	Type	Delivery batch [pcs]	Weight/unit [kg]
Padlockable in all positions IP65, Nema type 1, 3R, 12. Door interlock in I- and II-position and when padlocked. Padlocking possibility with three padlocks, bail dia ø5...10mm.					
OT16...100F_C	Black	6	OHB45J6E311	1	0.10
OT16...100F_C	Red-yellow	6	OHY45J6E311	1	0.10
OT200_C	Black	6	OHB65J6E311	1	0.12
OT400_C	Black	12	OHB95J12E311	1	0.12
OT600...800_C	Black	12	OHB125J12E311	1	0.14
OT1200_C	Black	12	OHB200J12PE311	1	0.40
Padlockable in all positions IP65, Nema type 1, 3R, 12. Door interlock in I- and II-position and when padlocked. Padlocking possibility with three padlocks, bail dia ø5...10mm.					
OT16...100F_C	Black	6	OHB45J6E011	1	0.10
OT16...100F_C	Red-yellow	6	OHY45J6E011	1	0.10
OT200_C	Black	6	OHB65J6E011	1	0.12
OT200_C	Red-yellow	6	OHY65J6E011	1	0.12
OT400_C	Black	12	OHB95J12E011	1	0.12
OT400_C	Red-yellow	12	OHY95J12E011	1	0.12
OT600...800_C	Black	12	OHB125J12E011	1	0.14
OT600...800_C	Red-yellow	12	OHY125J12E011	1	0.14
OT1200_C	Black	12	OHB274J12E011	1	0.54
OT1200_C	Black	12	OHB200J12PE011	1	0.40
OT1200_C	Red-yellow	12	OHY200J12PE011	1	0.40

Optional accessories for manual change-over switches
Ordering information for external handle



OTV250ECK



OTV1000ECK

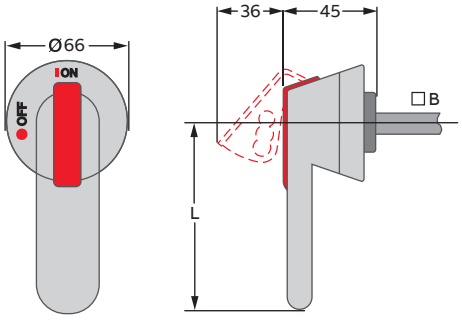
Plastic handle, direct mounting, indication I-O-II

Includes a shaft and a mechanism cover. The type and ordering numbers are for one piece.

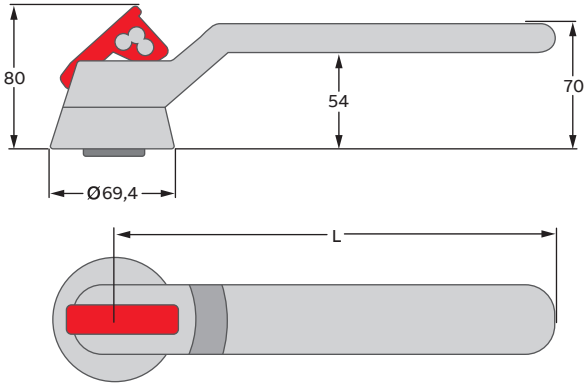
Suitable for switches	Colour	Type	Delivery batch [pcs]	Weight/unit [kg]
Padlockable with three padlocks in 0-position.				
OT200_C	Black	OTV250ECK	1	0.08
OT400_C	Black	OTV400ECK	1	0.26
OT600...800_C	Black	OTV800ECK	1	0.30
OT1200_C	Black	OTV1000ECK	1	0.75

Optional accessories for manual change-over switches
Dimensional drawings for external handles

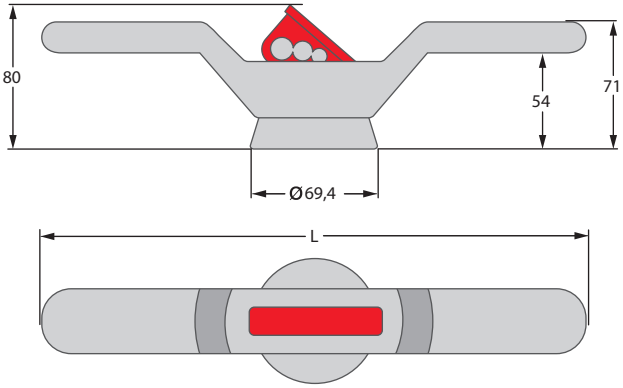
Plastic handles



Handle type	Handle length L [mm]	Shaft B [mm]
OH_45J6E_	45	6
OH_65J6E_	65	6
OH_95J12E_	95	12
OH_125J12E_	125	12
OH_145J12E_	145	12
OH_175J12E_	175	12
OH_200J12E_	200	12
OH_275J12E_	275	12



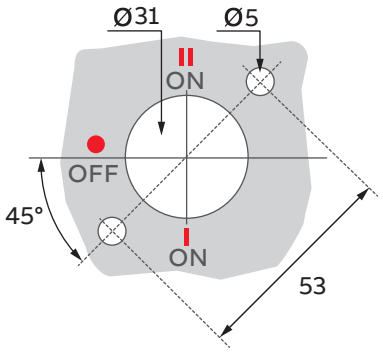
Handle type	L [mm]
OH_274J12	274



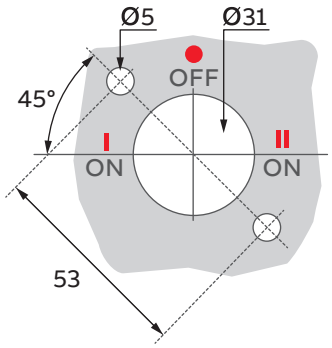
Handle type	L [mm]
OHB150J12P	300
OHB200J12P	400

Door drilling for OH_ handles

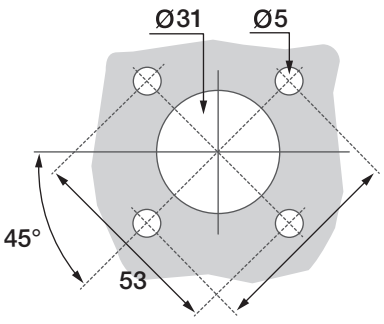
Valid for switches up to 100 A



Valid from switches from 200 to 800 A



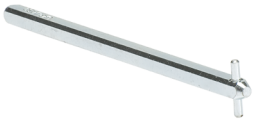
Valid from switches 1200 A and higher (OHB handles)



Optional accessories for manual change-over switches
Ordering information for extended shafts



OXS6X_



OXP6X_



OXP12X_

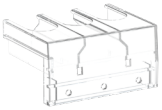
Shafts for selector handle handles

For switches	Length [mm]	Type	Delivery batch [pcs]	Weight/unit [kg]
Shaft diameter 6 mm				
OT16...100F_C	85	OXS6X85	10	0.03
	105	OXS6X105	10	0.03
	120	OXS6X120	10	0.04
	130	OXS6X130	10	0.04

Shafts for pistol handles

For switches	Length [mm]	Type	Delivery batch [pcs]	Weight/unit [kg]
Shaft diameter 6 mm				
OT16...100F_C	150	OXP6X150	10	0.05
	170	OXP6X170	10	0.05
	265	OXP6X265	10	0.08
	400	OXP6X400	10	0.12
Shaft diameter 6 mm				
OT200_C	90	OXP6X90	10	0.03
	130	OXP6X130	10	0.04
	161	OXP6X161	10	0.05
	210	OXP6X210	10	0.06
	290	OXP6X290	10	0.08
	360	OXP6X360	10	0.11
Shaft diameter 12 mm				
OT400_C	107	OXP12X107	1	0.12
	148	OXP12X148	1	0.17
	166	OXP12X166	1	0.20
	185	OXP12X185	1	0.22
	250	OXP12X250	1	0.29
	280	OXP12X280	1	0.33
	325	OXP12X325	1	0.38
	395	OXP12X395	1	0.46
	465	OXP12X465	1	0.54
OT600...800_C	148	OXP12X148	1	0.17
	185	OXP12X185	1	0.22
	250	OXP12X250	1	0.29
	325	OXP12X325	1	0.38
	395	OXP12X395	1	0.46
	465	OXP12X465	1	0.54
OT1200_C	166	OXP12X166	1	0.20
	185	OXP12X185	1	0.23
	250	OXP12X250	1	0.29
	325	OXP12X325	1	0.38
	395	OXP12X395	1	0.46
	465	OXP12X465	1	0.54

Optional accessories for manual change-over switches
Ordering information for terminal shrouds



OTS_T3



OTS_T1

Terminal shrouds, transparent plastic

Snap-on mounting to the switches, IP20. The full shrouding of a 3-pole change-over switch is achieved with four 3-pole shrouds.

Suitable for switches	Type	Delivery batch [pcs]	Weight/ unit [kg]
For three pole switches			
OT16...40F_C	OTS40T3	10	0.01
OT63...80F_C	OTS63T3	10	0.01
OT100F_C	OTS125T3	10	0.01
For fourth pole			
OTPS40FPN1	OTS40T1	10	0.01
OTPS40FPN2	OTS40T1	10	0.01
OTPS80FP	OTS63T1	10	0.01
OTPS60FP, OTPS125FP	OTS125T1	10	0.01

Terminal shrouds, grey plastic

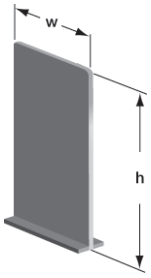
Snap-on mounting to the switches, IP 20. A kit includes three or four shrouds which can be used on either side of the switch. Suitable for the upperswitch. Transparent shrouds for OT_160...1200 available on request, please replace the letter “G” with “T”.



OTS_L_

Suitable for switches	No. of poles	Description	Type	Units/ type [pcs]	Weight/ unit [kg]
OT_200_C	3	Long type	OTS250G1L/3	3	0.09
OT_200_C	4	Long type	OTS250G1L/4	4	0.12
OT_400_C	3	Long type	OTS400G1L/3	3	0.15
OT_400_C	4	Long type	OTS400G1L/4	4	0.20
OT_600...800_C	3	Long type	OTS800G1L/3	3	0.32
OT_600...800_C	4	Long type	OTS800G1L/4	4	0.42
OT_1200_C	3	Long type	OTS1600G1L/3	3	0.64
OT_1200_C	4	Long type	OTS1600G1L/4	4	0.85

Optional accessories for manual change-over switches
Ordering information for phase barriers



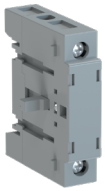
KT_PBH


KT_PBL_

Phase barriers
The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OT_160...800 change-over switches. 3-pole change-overs need 8 barriers and 4-pole change-overs need 12 barriers for full protection.

Suitable for switches	No. of poles	Height h [mm]	Cutting width W of the phase barrier [mm]	Type	Units/ type [pcs]
OT_200U_C	3	100	55	KT5PBL-3	4
OT_200U_C	3	200	55	KT7PBH-3	4
OT_200U_C	4	100	55	KT5PBL-4	6
OT_200U_C	4	200	55	KT5PBH-4	6
OT_400U_C	3	100	67	KT5PBL-3	4
OT_400U_C	3	200	67	KT7PBH-3	4
OT_400U_C	4	100	67	KT5PBL-4	6
OT_400U_C	4	200	67	KT5PBH-4	6
OT_600...800U_C	3	100	90	KT5PBL-3	4
OT_600...800U_C	3	200	90	KT7PBH-3	4
OT_600...800U_C	4	100	90	KT5PBL-4	6
OT_600...800U_C	4	200	90	KT5PBH-4	6

Ordering information for fourth poles


OTPS40F

Fourth poles for OT16...100F
Snap-on mounting to the left or right side of the switches, IP20. Simultaneous operation with power poles. The type and ordering numbers are for one piece.

Suitable for switches	Rated current, up to 415V AC-21A/AC-22A/AC-23A I[A]	Type	Delivery batch [pcs]	Weight/ unit [kg]
OT16...40F_C	40/40/23	OTPS40FPN1[1)]	10	0.03
OT16...40F_C	40/40/23	OTPS40FPN2[2)]	10	0.03
OT63...80F_C	80/80/75	OTPS80FP	10	0.06
OT100F_C	125/125/90	OTPS125FP	10	0.14

[1)] Installation to the left side
[2)] Installation to the right side

Optional accessories for manual change-over switches

Ordering information and technical data for auxiliary contacts



OA1G01
OA7G10



OA1G10
OA8G01



OA2G11

Auxiliary contact blocks for OT16...100F

Snap-on mounting to the switch, IP 20, max. 2 blocks/ side. I_{th} = 16 A, suitable for cable cross sections max. 2 x 2,5 mm². Simultaneous action with the main contacts.

Suitable for switches	Contact functions	Installation side	Type	Delivery batch [pcs]	Weight/ unit [kg]
OT_16...100F_C	1NO	Right	OA1G10	10	0.03
OT_16...100F_C	1NC	Right	OA8G01	10	0.03
OT_16...100F_C	1NO	Left	OA7G10	10	0.03
OT_16...100F_C	1NC	Left	OA1G01	10	0.03
OT63...100F3C	1NO+1NC	Either	OA2G11[1)]	10	0.03

[1)] Not mountable on 4-pole change-over switches

Auxiliary contact blocks for OT200... 1200

Mounting on the right side of the switch: Max. 4 auxiliary contact blocks/switch (totally 8 blocks). Types _AU have gold plated contacts for harsh environments and low operating voltages. Simultaneous action with the main contacts, IP20.

Suitable for switches	Contact functions	Installation side	Type	Delivery batch [pcs]	Weight/ unit [kg]
OT_200...1200_C	1NO	Right	OA1G10	10	0.03
OT_200...1200_C	1NC	Right	OA3G01	10	0.03
OT_200...1200_C	1NO	Right	OA1G10AU	10	0.03
OT_200...1200_C	1NC	Right	OA3G01AU	10	0.03

Auxiliary contacts

Technical data for auxiliary contacts according to IEC 60947-5-1, for OA1G_, OA2G_, OA3G_, OA7G_, OA8G_						
	AC15		DC12		DC13	
U_e/[V]	I_e/[A]	U_e/[V]	I_e/[A]	P/[W]	I_e/[A]	P/[W]
230	6	24	10	240	2	50
400	4	72	4	290	0.8	60
415	4	125	2	250	0.55	70
690	2	250	0.55	140	0.27	70
		440	0.1	44		

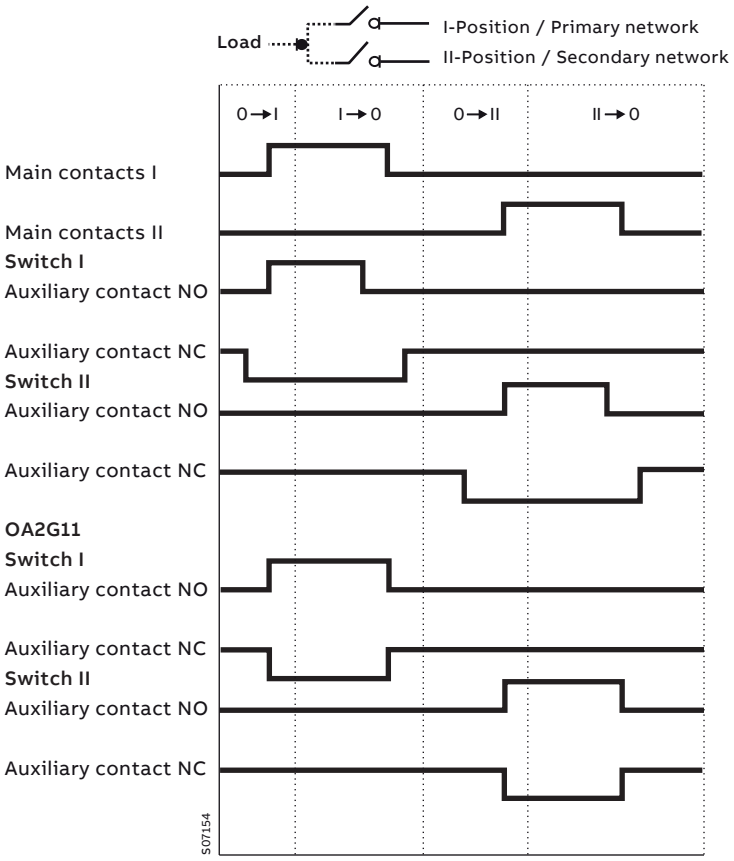
Function tables

Function table of OT200...1200 auxiliary contacts / Switch I (max. 2+2)			
Handle position	Main contacts	OA1G10 NO	OA3G01 NC
I	closed	closed	open
0	open	open	closed
II	closed	open	closed

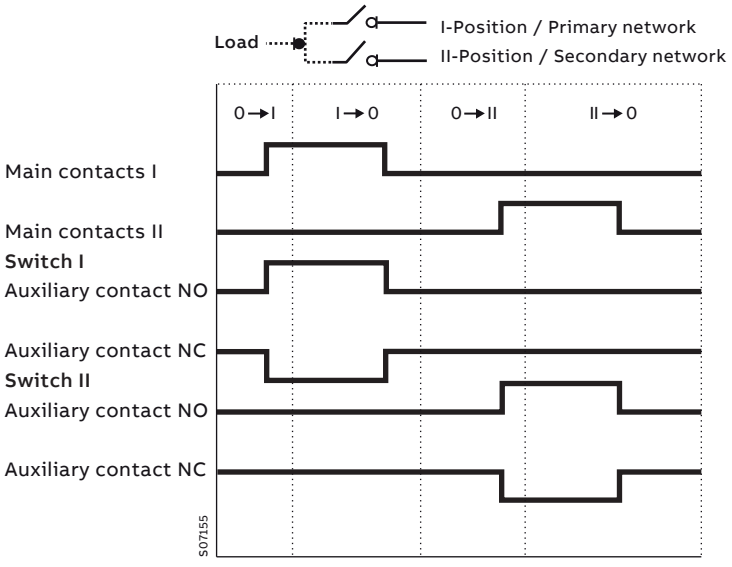
Function table of OT200...1200 auxiliary contacts / Switch II (max. 2+2)			
Handle position	Main contacts	OA1G10 NO	OA3G01 NC
I	closed	open	closed
0	open	open	closed
II	closed	closed	open

Contact functions
Diagrams

Contact functions for OT16...100_C



Contact functions for OT200...1200_C



Accessories for manual operated fusible disconnect switches 30...1200A

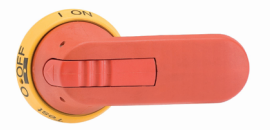
Ordering information for handles


OHB65J6


OHY65J6


OHG65J6


OHB95J12


OHY95J12T


OHB125J12

Pistol handles for front operated fusible disconnect switches
Plastic pistol handles, IP 65, Nema type 1, 3R, 12
Padlelockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.

Colour	Handle length [mm]	Type	Weight/unit [kg]
For shaft diameter 12mm (for OS30...200)			
Black and red-yellow: I-O/ON-OFF, grey: I-O.			
Black	45	OHB45J6	0.12
Red-yellow	45	OHY45J6	0.12
Grey	45	OHG45J6	0.12
Black	65	OHB65J6	0.12
Red-yellow	65	OHY65J6	0.12
Grey	65	OHG65J6	0.12
Black	80	OHB80J6	0.14
Black and red-yellow: Test/I-O/ON-OFF, grey:Test/I-O.			
Black	45	OHB45J6T	0.12
Black	65	OHB65J6T	0.12
Red-yellow	65	OHY65J6T	0.12
Grey	65	OHG65J6T	0.12
Black	80	OHB80J6T	0.14
For shaft diameter 12mm (for OS400)			
Black and red-yellow: I-O/ON-OFF, grey: I-O.			
Black	95	OHB95J12	0.16
Red-yellow	95	OHY95J12	0.16
Grey	95	OHG95J12	0.16
Indication: Test-OFF-ON/Test O-I			
Black	95	OHB95J12T	0.16
Red-yellow	95	OHY95J12T	0.16
For shaft diameter 12mm (for OS600...800)			
Black and red-yellow: I-O/ON-OFF, grey: I-O.			
Black	125	OHB125J12	0.16
Red-yellow	125	OHY125J12	0.16
Grey	125	OHG125J12	0.16
Black	145	OHB145J12	0.17
Red-yellow	145	OHY145J12	0.17
Grey	145	OHG145J12	0.17
Black	175	OHB175J12	0.18
Red-yellow	175	OHY175J12	0.18
Grey	175	OHG175J12	0.18
Indication: Test-OFF-ON/Test O-I			
Black	125	OHB125J12T	0.16
Red-yellow	125	OHY125J12T	0.16
Black	145	OHB145J12T	0.17
Red-yellow	145	OHY145J12T	0.17
Black	175	OHB175J12T	0.18

Accessories for manual operated fusible disconnect switches 30...1200A

Ordering information for handles



OHB274/330J12



OHY274J12



OHM_



YASDA_

Pistol handles for front operated fusible disconnect switches

Plastic pistol handles, IP 65, Nema type 1, 3R, 12

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.

Colour	Handle length [mm]	Type	Weight/unit [kg]
For shaft diameter 6mm (for OS1200)			
Black and red-yellow: I-O/ON-OFF			
Black	274	OHB274J12	0.54
Red-yellow	274	OHY274J12	0.54
Black	330	OHB330J12	0.58
Red-yellow	330	OHY330J12	0.58
Black	2x150	OHB150J12P	0.17
Red-yellow	2x150	OHY150J12P	0.17
Black	2x200	OHB200J12P	0.40
Red-yellow	2x200	OHB200J12P	0.40
Indication: Test-OFF-ON/Test-O-I			
Black	274	OHB274J12T	0.54
Black	330	OHB330J12T	0.58
Black	2x200	OHB200J12PT	0.40
Red-yellow	2x200	OHY200J12PT	0.40

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position.
This can be defeated to allow authorized personnel access for inspection.
Handles padlockable in all positions and NEMA4/4X handles are available on request.

Stainless steel pistol handles, IP66, NEMA 4X

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position.
indication: I-O/ON-OFF

Colour	Handle length [mm]	Type	Weight/unit [kg]
For shaft diameter 6mm (for OS1200)			
Metallic	45	OHM45L6	0.70
Metallic	65	OHM65L6	0.73
For shaft diameter 12mm			
Metallic	125	OHM125L12	0.76
Metallic	175	OHM175L12	0.83
Metallic	275	OHM275L12	0.96

Metallic pistol handles

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position.

For shaft diameter 6mm (for OS1200)			
Black I-O	320	YASDA35	0.80

Accessories for manual operated fusible disconnect switches 30...1200A

Ordering information for handles



OHB65J6E00S



OHY65J6E00S

Pistol handles for side operated fusible disconnect switches

Plastic pistol handles, IP 65, Nema type 1, 3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65. The position indications are rotated 90°. If the handle is mounted on the front of the door, a standard handle can be used as well.

Colour	Handle length [mm]	Type	Weight/unit [kg]
For shaft diameter 6mm			
Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O			
Black	65	OHB65J6E00S	0.12
Red-yellow	65	OHY65J6E00S	0.12
Grey	65	OHG65J6E00S	0.12
Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O			
Black	65	OHB65J6TE00S	0.12
Red-yellow	65	OHY65J6TE00S	0.12
Grey	65	OHG65J6TE00S	0.12
For shaft diameter 12mm			
Plastic handles, indication I-O/ON-OFF			
Black	145	OHB145J12E00S	0.17

Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position.
This can be defeated to allow authorized personnel access for inspection.
Handles padlockable in all positions are available on request.



OHZX14

Extension ring for pistol handles

Suitable for handles	Colour	Type	Weight/unit [kg]
OHB_	Black	OHZX14	0.06



OHZX10

Shaft alignment ring

Improves the handle operation if a handle and a shaft have been poorly aligned.

Suitable for handle	Colour	Type	Weight/ unit [kg]
For pistol handles OH_65...275J6...12	Black	OHZX10[1)]	0.23

1) Fits all pistol grip handles, mounts on the inside of the enclosure door with provided hardware.

Accessories for manual operated fusible disconnect switches 30...1200A

Ordering information for handles



OSV1250DK

Direct mount handles for front operated fusible disconnect switches

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for switches	Colour	Type	Weight/unit [kg]
Suitable for OS60G...1200			
Indication: Test OFF-ON/Test O-I indication Padlockable with three padlocks in the OFF-position, optionally also in the ON-position. Includes shaft and mechanism cover.			
OS60GJ, OS100GJ, OS200J	Black	OSV200BK	0.14
OS200J_	Red-yellow	OSVY200BK	0.14
OS400J_	Black	OSV400BK	0.33
OS400J_	Red-yellow	OSVY400BK	0.33
OS600J...800L_	Black	OSV800DK	1.1
OS600J...800L_	Red-yellow	OSVY800DK	1.1
OS1200_L	Black	OSV1250DK	1.5
OS1200_L	Red-yellow	OSVY1250DK	1.5

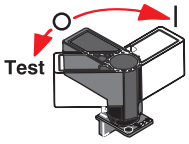


OHB4

Direct mount handles for front operated fusible disconnect switches

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for switches	Colour	Type	Weight/unit [kg]
Suitable for OS Mini			
Padlockable with three padlocks in the OFF-position when the door is open. Max. bail dia 6mm.			
OS30FA_	Black	OHB4	0.05

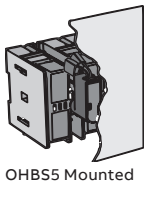


OHBS5

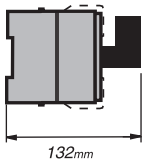
Direct mount handle - mounts directly to switch, no shaft necessary for OS30

NEMA type	Color	Marking	Lenght mm	Padlockable	Catalog number
1	Black	O/I/Test	50	Yes	OHBS5[1)]

1) Padlockable with three padlocks in the OFF-position. Includes shaft and mechanism cover.

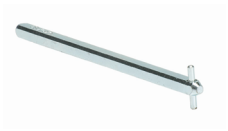


OHBS5 Mounted



OHBS5 Mounted depth

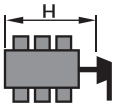
Accessories for fusible disconnect switches OS30 A, 60 A
Ordering information for shafts



OXP6X



OXP6X_-45



Side operated H [mm]

Extended shafts

Shaft lenght [mm]	Front operated H [mm]	Side operated H [mm]	Type	Weight/unit [kg]
For OS30[2], shaft diameter 6mm				
150	135…210	154…166	OXP6X150[5]	0.05
170	155…230	174…186	OXP6X170	0.05
265	250…325	269…281	OXP6X265	0.08
400	385…460	404…416	OXP6X400	0.12
150	135…210	154…166	OXP6X150-45[1]	0.05
170	155…230	174…186	OXP6X170-45[1]	0.05
265	250…325	269…281	OXP6X265-45[1]	0.08
400	385…460	404…416	OXP6X400-45[1]	0.12
For OS60GJ[4], shaft diameter 6mm				
63		161…167	OXP6X63	0.02
90		188…194	OXP6X90	0.03
130	127…174	228…234	OXP6X130	0.04
161	138…205		OXP6X161[3]	0.05
210	187…254		OXP6X210	0.06
290	267…334		OXP6X290	0.08
360	337…404		OXP6X360	0.10
430	407…474		OXP6X430	0.12
210	187…254		OXP6X210-45[1]	0.06
290	267…334		OXP6X290-45[1]	0.08
360	337…404		OXP6X360-45[1]	0.10

[1] The shaft position is rotated 45 degrees.
[2] If side operated OS Mini, 4 poles is needed, add 36mm into side operated H [mm] measurements.
[3] Included as standard in P-types.
[4] If side operated OS60GJ is needed, add 33mm for 3-pole and 68mm for 4-pole into the Side operated H [mm] measurements.
[5] Included as standard in front operated types.

Accessories for manual operated fusible disconnect switches 30...1200 A

Ordering information for shafts



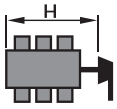
OXP6X_



OXP_X_-45



OXP12X_



Side operated H [mm]

Extended shafts

Shaft lenght [mm]	Front operated H [mm]	Side operated H [mm]	Type	Weight/unit [kg]
For OS100G[2], shaft diameter 6mm				
63		161...167	OXP6X63	0.02
90		188...194	OXP6X90	0.03
130	127...174[4]	228...234	OXP6X130	0.04
161	138...205		OXP6X161[3]	0.05
210	187...254		OXP6X210	0.06
290	267...334		OXP6X290	0.08
360	337...404		OXP6X360	0.10
430	407...474		OXP6X430	0.12
210	187...254		OXP6X210-45[1]	0.06
290	267...334		OXP6X290-45[1]	0.08
360	337...404		OXP6X360-45[1]	0.10
For OS400, shaft diameter 12mm				
250	230...325	489...495	OXP12X250[3]	0.30
280	260...355	519...525	OXP12X280	0.30
325	305...400		OXP12X325	0.36
395	375...470		OXP12X395	0.43
465	445...540		OXP12X465	0.51
535	515...610		OXP12X535	0.59

[1] The shaft position is rotated 45 degrees.
[2] If side operated OS, 4 poles is needed, add 35mm into side operated H [mm] measurements.
[3] Included as standard in P-types.
[4] OS100GJ: 113...174.

Accessories for manual operated fusible disconnect switches 30...1200 A

Ordering information for shafts



OXP12X_



OXP12X280-45



OETLZX95

Extended shafts

Shaft lenght [mm]	Front operated H [mm]	Side operated H [mm]	Type	Weight/unit [kg]
For OS800, shaft diameter 12mm				
280	258...382	645...651	OXP12X280[2)]	0.30
325	303...427		OXP12X325	0.40
395	373...497		OXP12X395	0.50
465	443...567		OXP12X465	0.60
535	513...2637		OXP12X535	0.70
280	258...382		OXP12X280-45[1)]	0.30
325	303...427		OXP12X325-45[1)]	0.40
For OS1200, shaft diameter 12mm				
395	366...495[3)]	371...500[4)]	OXP12X395[2)]	0.43
465	436...565[3)]	441...570[4)]	OXP12X465	0.51
535	506...635[3)]	441...571[4)]	OXP12X535	0.59

[1)] The shaft position is rotated 45 degrees.
[2)] Included as standard in front operated P-types.
[3)] H with handle OH_274/330J12.
[4)] H with handle OHB150/200J12P.

Accessories for manual operated fusible disconnect switches 30...1200 A

Ordering information for auxiliary contacts



OA3G01

Auxiliary contact blocks for OS30FA_...1200 [1)]

Types_AU have gold plated contacts for harsh environments and low operating voltages.

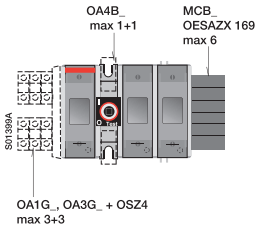
Suitable for switches	Description	Protection degree	Type	Weight/unit [kg]
OS30FA...1200	1NO	IP20	OA1G10	0.03
OS30FA...1200	1NC	IP20	OA3G01	0.03
OS30FA...1200	1NO	IP20	OA1G10AU	0.03
OS30FA...1200	1NC	IP20	OA3G01AU	0.03



OA3G01AU

Mounting under the mechanism cover

The “test” contacts operate in ON- and OFF- positions as well as when the handle is turned to TEST-position = 45 degrees over the OFF-position. The “test tindication” contacts operate only when the handle is turned to TEST-position. See the function table below. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, “test” or “test indication” contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place shown in the mounting instruction. In order to activate the “test” and “test indication” features, a handle with test function is required.



Maximum number of auxiliary contacts under the mechanism cover

	OS30...200		OS400...800		OS1200	
Pole version	Standard	N3	Standard	N3	Standard	N3
Maximum number of contacts blocks	4	0	8	4	12	8
Aux./Test contacts	4	0	4	2	8[1)]	6[2)]
Test indication contacts	2	0	4	2	4	2

[1)] 6 aux/test contacts and 2 early operation aux./test contacts.
[2)] 4 aux/test contacts and 2 early operation aux./test contacts.

Mounting under the mechanism cover

Maximum 8 auxiliary contact blocks (N.O. or N.C.) with the OEA28 module.
Side operated types: OS_S30..._S40 types only.

Mounting plate or auxiliary contacts

Mount on the switch mechanism, max. 3 auxiliary contacts

Suitable for switches	Type
R: Mounting on the right side of the switch **L: Mounting on the left side of the switch**	
OS100GJ_...200J_	OEA30R
OS100GJ_...200J_	OEA30L

1) For OS30: Max. 6 auxiliary contacts mountable onto the left side with the mounting frame OSZ4.
Maximum number of auxiliary contacts under the mechanism cover:
OS60...200: Maximum 4 contact blocks, 4 Aux./Test contacts 2 Test indication contacts
OS400...800: Maximum 8 contact blocks, 4 Aux./Test contacts 4 Test indication contacts
OS1200: Maximum 12 contact blocks, 8 Aux./Test contacts 4 Test indication contacts.

Mounting on the left side of the fusible disconnect switch:
OS60...1200: Maximum 8 auxiliary contact blocks (N.O. or N. C.) with the OEA28 module.

Accessories for manual operated fusible disconnect switches 30...1200 A

Technical information for auxiliary contacts



OEA28

Module for auxiliary contacts for OS30...1200

Description	Type	Weight/unit [kg]
Screw mounting to the left side of the switch	OEA28	0.04

Performance data for auxiliary contacts according to IEC 60947-5-1

OA1G_, OA3G_						
U/[V]	690					
U_{imp}/[kV]	4					
	3					
	16					
	1…2 x 0.75…2.5mm²					
	16 A/gG					
	A600, R300					
	18 - 14AWG, 1 (2)					
OA1G_OA3G_						
	AC15		**DC12**			**DC13**
Ue/[V]	**Ie/[A]**	**Ue/[V]**	**Ie/[A]**	**P/[W]**	**Ie/[A]**	**P/[W]**
230	6	24	10	240	2	48
400	4	72	4	288	0.8	58
690	2	125	2	250	0.55	69
		250	0.55	138	0.27	68
		440	0.1	44		
OA4_						
EN61058-1						
U_i/[V]	400					
I_{th}/[A]	10					
I_e	400V AC					
	10 (4) Am 10E3					
	6 (2.5) A, 50E3					
NEMA	10 A, 125-250V AC, 1/4 HP					
M3 Screw connection						

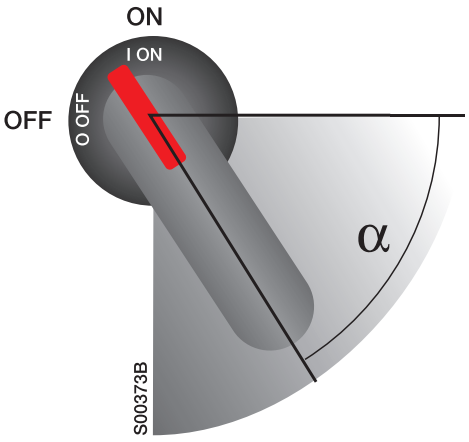
Accessories for fusible disconnect switches OS30...1200 A

Auxiliary contacts timing diagrams

Handle indications and functions

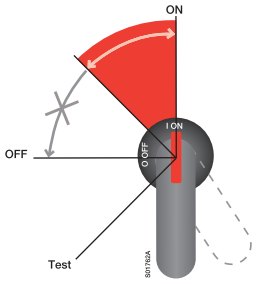
The handle indicates the position of the contacts with complete reliabity in all situations. If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintening the door interlock and padlocking is not possible to do.

When operating the fusible disconnect switch to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.



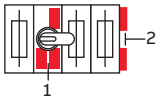
Closing
1. Main contacts close
2. NO auxiliary contacts close
3. NC auxiliary contacts open

Opening
4. Main contacts open
5. NO auxiliary contacts open
6. NC auxiliary contacts close

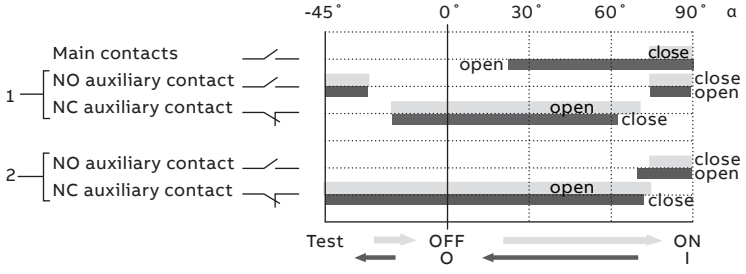


ON and OFF-functions of main and auxiliary contacts

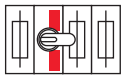
Example



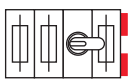
Places of auxiliary contacts and Test ind.



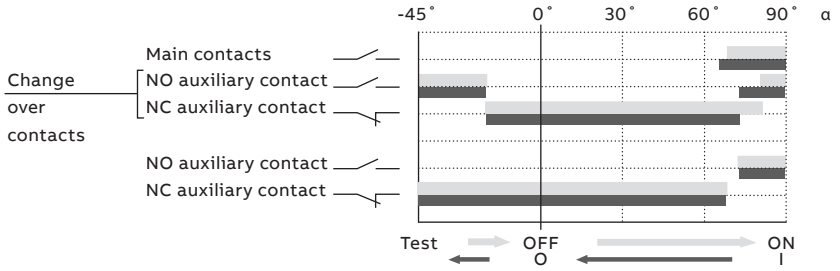
OS30_



OA4B1C, 1 NO-NC



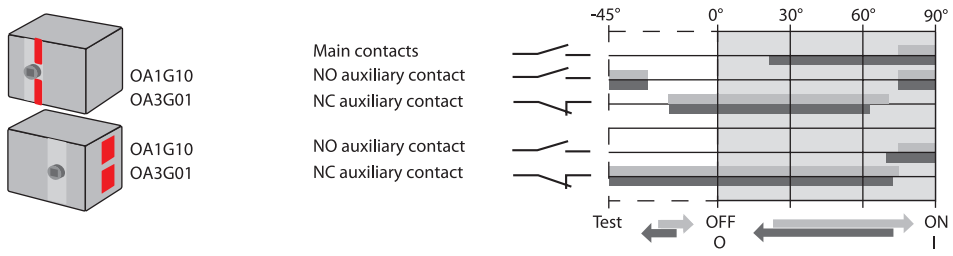
OA1G10, 1NO
OA3G01, 1NC



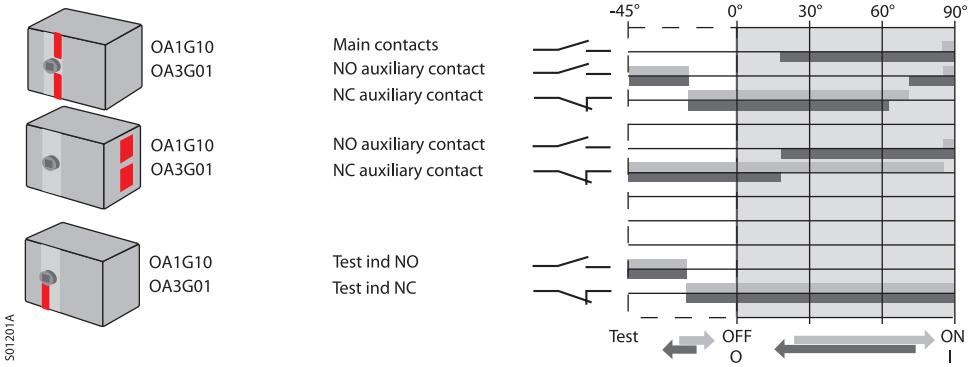
Accessories for manual operated fusible disconnect switches 30...1200 A

Auxiliary contacts timing diagrams

OS 60_

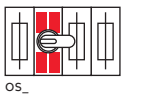


OS 100_

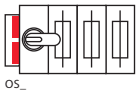


ON- and OFF-functions of main and auxiliary contacts

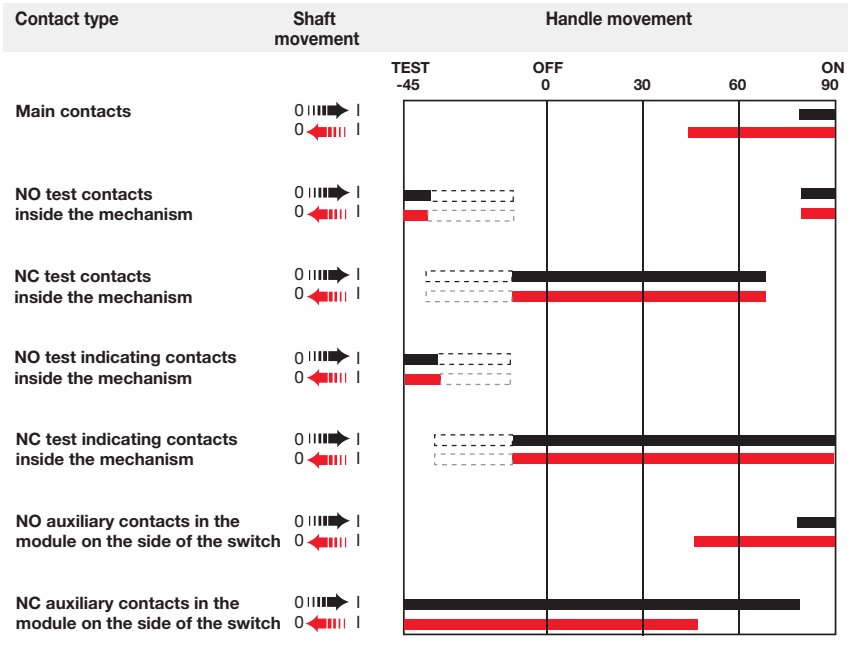
OS 200...1200



OA1G10, 1NO
OA3G01, 1NC



OA1G10, 1NO
OA3G01, 1NC
+ OEA28



Accessories for manual fusible disconnect switches 30...1200 A

Ordering information for neutral links

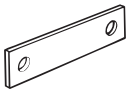


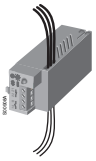
OSZ1


OXN250


OXN400


OXN800S


OESA-ZS36


OFM240, 600

OFMZX_

Neutral links

For OS30FA ... OS100GJ

Detachable, mounting onto the base plate or DIN-rail

Suitable for switches	Max. wire	H/W/D [mm]	Mounting holes	Type	AC thermal amp rating	AC rated voltage	Weight/unit [kg]
OS30FA	16mm²	39/41/40	ø4.2, distance 35	OESAZX171	30	600	0.06
OS60GJ	16mm² Cu	39/41/40	ø4.2, distance 32	OSZ1	60	600	0.06
OS100GJ	35mm² Cu	39/44/45	ø4.2, distance 35	OSZ2	100	600	0.07

For OS200J...1200L

Mounting with screws (included) onto either side of the switch (OXN250 to OS200) or on the base plate (OXN250...1250) according the table below.

Suitable for switches	Type	Weight/unit [kg]
Detachable, mounting on the switch		
OS200J	OXN250	0.40
Detachable, mounting on the base plate		
OS200J	OXN250	0.40
OS400J	OXN400	0.70
OS600J...OS800L	OXN800S	1.20
OS1200L	OXN1250S	2.50

Solid links

Suitable for switches	Type	Weight/unit [kg]
OS200 J	OEZNL1	0.19
OS600J, 800...1200L	OEZNL8	0.58

Shorting bars

Description	For use on	AC thermal amp rating	AC rated voltage	Catalog number
Solid links	OS60J	60	600	OESA-ZD54
	OS100J	100	600	OESA-ZS36
	OS200J	200	600	OESA-ZK98

Fuse monitor, suitable for 3 phase circuits

Description	For use on	AC rated voltage	Catalog number
The Red LED indicates any BLOWN fuse and the 1 NO and 1 NC aux. contact gives an alarm or a trip signal. The Green LED indicates NORMAL status	OS30-100	100...240	OFM240
	OS30-OS800	380...600	OFM600
Terminal crimp for OS30...800, kit of 6 pieces	OS30...800		OFMZX2
Terminal crimp for OS1200, kit of 6 pieces	OS1200		OFMZX4

Accessories for manual fusible disconnect switches 30...1200 A

Ordering information for accessories

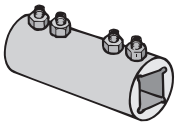


KT5PBH_

Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OS200...400 fusible disconnect switches, 3-pole fusible disconnect switches need 4 barriers and 4-pole fusible disconnect switches need 6 barriers for full protection. Cutting width of the phase barrier 55mm.

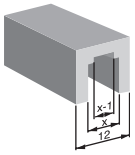
Suitable for switches	No. of poles	Height h [mm]	Type	Units/type [pcs]
OS100G...OS200J	3	–	OSB160/4	4
OS100G...OS200J	3	–	OSB160/6	6
OS400J	3	200	KT5PBH-3	4
OS400J	4	200	KT5PBH-4	6



OESA-ZX167
OETL-ZX95

Shaft extension coupler

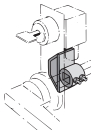
Description	For use on	Catalog number
Joins two shafts together for applications where extended length is required	12 mm shafts	OETL-ZX95



OETL-ZK19
(x=6mm)

Shaft adapter

Description	For use on	Catalog number
Adapts one end of a 6mm shaft to 12mm. Use with shaft extension coupler.	6 mm shafts	OETL-ZK19



OETL-ZW16

Locking accessories

Description	For use on	Catalog number
Cam attachment for Kirk Key, interlock. Cam attachment for adapting to the interlock system. The interlock is not included.	OS60, OS100, OS200	OETL-ZW16

Accessories for manual operated fusible disconnect switches 30...1200 A

Ordering information for terminal shrouds and terminal lugs



OSS200G1L



OSS800G1L

For use on switch	Terminal lugs Catalog Number	Wire size	Wire type	Terminal lugs per kit	Terminal Shrouds Catalog number	Qty of shrouds per pkg	Qty of pkg for full protection
OS100GJXX	OZXA-24	#14 - 2/0	Cu/Al	6	OSS160T1	1 x 1P	6
OS100GJXX	OZXA-24	#14 - 2/0	Cu/Al	6	OSS160GG1L/3	3 x 1P	2
OS200JXX	OZXA-200	#4 - 300 kcmil	Cu/Al	6	OSS200G1L/3	3 x 1P	2
OS200JXX	OZXA-200	#4 - 300 kcmil	Cu/Al	6	OSS200G1L/4	4 x 1P	2
OS200JXX	OZXA-206S*	(6) #14 - #6 AWG	Cu/Al	3	Included with OZXA-206S	3 x 1P	2
OS400J03	OZXA-400	#2 - 600 kcmil	Cu/Al	6	OESA-ZX70	1 x 3P	2
OS400J03	OZXA-402	(2) #2 - 300 kcmil	Cu/Al	6	OSS403	1 x 3P	2
OS400JXX	OZXA-33	(2) #2 - 500 kcmil	Cu/Al	6	N/A	N/A	N/A
OS400JXX 2 to 4 poles	OZXA-400	#2 - 600 kcmil	Cu/Al	6	OSS400	1 x 3P	2
OS600JXX	OZXA-800	(2) #2 - 600 kcmil	Cu/Al	6	OSS800G1L/3	3 x 1P	2
OS800LXX	OZXA-800	(2) #2 - 600 kcmil	Cu/Al	6	OSS800G1L/3	3 x 1P	2
OS1200LXX	OZXA-1200	(4) #2 - 600 kcmil	Cu/Al	6	OSS1250G1L/3	3 x 1P	2

*OZXA-206S kit includes: (3) OZXA-175 + OSS200G1L/3

Suitable for switches	Cable cross section [mm²]	Type	Tightening torque [lb.in/Nm]	Weight/unit [kg]	Weight/unit [lb]
OS100GJ_	#14 - 2/0	OZXA-24	275/31.1	0.04	0.09
OS200J_	AWG 4 - 300MCM	OZXA-200	275/31.1	0.04	0.09
OS400J_	AWG 2 - 600MCM	OZXA-400	375/42.4	0.05	0.12
OS600J...800L	2 X AWG 2 - 600MCM	OZXA-800	500/56.5	0.21	0.45
OT1200L_	4 X AWG 2 - 600MCM	OZXA-1200	500/56.5	0.45	0.98

For ordering, please consult us.

Technical data for terminal lugs

Description	
UL approval file	E6207
Temperature Rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C.

Please consult us when using OS600J...OS800L with OZXA-800 lugs.

Accessories for manual operated fusible disconnect switches 30...1200A

Ordering information for conversion kits



OESAZW2



OTZW25



OTZW26



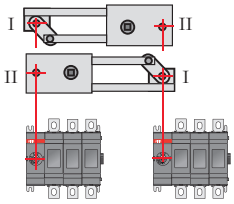
OETLZW14

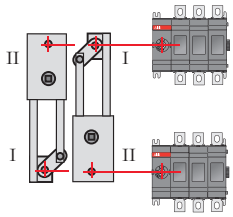
Conversion kits for front operated combination switches

Suitable for switches	Switches needed [pcs]	Shaft distance [mm]	Type	Units/ type [pcs]	Weight/ unit [kg]
6 and 8-pole switch mechanism					
Parallel attachment for connecting 3- and 4-pole switches. The switches work simultaneously.					
6 and 8-pole switches, OS30...OS400					
The attachment levers are provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically.					
OS30FA_...OS200J_	Two 3- or 4-pole	45+(0-13)x15	OESAZW2	1	0.37
OS400J_	Two 3- or 4-pole	60+(0-19)x20	OETLZW9	1	1.1
Change-over switch mechanism					
Two switches connected with a mechanism operating into I-O-II positions.					
OS30FA_...OS200J_	Two 3- or 4-pole	210+(0 - 18)x20	OTZW25	1	2.8
OS400J_	Two 3- or 4-pole	210+(0 - 11)x20	OETLZW11	1	3.0
OS400J_...OS800L_	Two 3- or 4-pole	210+(0 - 20)x20	OETLZW12	1	4.6
Bypass switch mechanism					
A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. The bypass attachment can be used together with another combination attachment.					
OS30FA_...OS200J_	Three 3- or 4-pole		OTZW26	1	3.3
	Between 1 and 2:	210+(0 - 9)x20			
	Between 1 and 3:	250+(0 - 9)x20			
OS400J_...OS800L_	Three 3- or 4-pole		OETLZW13	1	4.0
	Between 1 and 2:	210+(0 - 18)x20			
	Between 1 and 3:	250+(0 - 18)x20			
Mechanical interlock mechanism					
Prevents one switch from closing to ON -position, if the other is not in OFF - position. OTZW/OETLZW-types: When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in the ON-position. (UPS-usage, make-before-break)					
OS30FA_...OS200J_	Two 3- or 4-pole	190	OTZW10	1	0.40
OS400J_...OS800L_	Two 3- or 4-pole	250	OETLZW14	1	0.70
OS400J_...OS800L_	Two 3- or 4-pole	300	OETLZW3	1	0.80
OS400J_...OS1200L_	Two 3- or 4-pole	500	OETLZW15	1	1.24

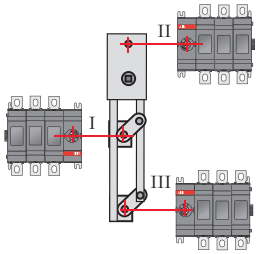
Accessories for manual operated fusible disconnect switches 30...1200A

Ordering information for conversion kits

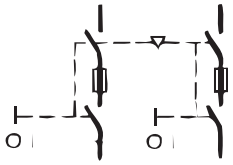




Change-over switches



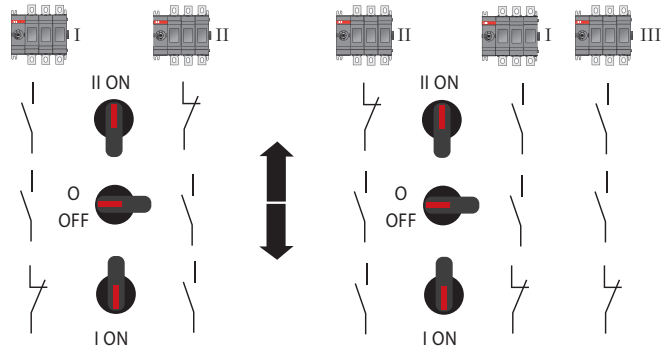
Change-over and bypass switches



Mechanical interlock

Shafts and handles for conversion kits

Conversion kit type	To be ordered separately		Included in the conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9	-	-	-	-	x	x
Change-over switches						
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21	-	-
Bypass switches						
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA 6	-	-
Mechanical interlock						
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x



Change-over switches

Bypass switches

Accessories for manual operated fusible disconnect switches 200…1200A

Ordering information for cam attachment and interlocks



OSZT1A



OSZT2A

Mechanism interlock kits and Electrical interlocks

200…1200A fusible disconnect switches can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8 mm.

Note: The shaft must go through the interlock into the switch mechanism.

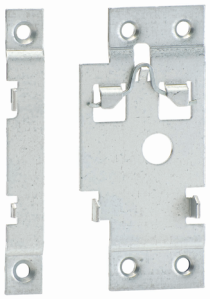
Suitable for switches	Type	Weight/ unit [kg]
Interlocking in the OFF position		
OS200	OSZT1A	0.32
OS400	OSZT2A	0.75
OS600 …800_	OSZT3A	1.20
OS1200	OSZT4A	2.00
Interlocking in the OFF & ON positions		
OS200	OSZT1L	0.32
OS400	OSZT2L	0.75
OS600 …800_	OSZT3L	1.20
OS1200	OSZT4L	2.00

Accessories for manual operated fusible disconnect switches 200...1200A

Ordering information for coils and mounting accessories



PDAL2-230AC50Hz



OSGZD1

Coils

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

Suitable for switches	Type	Weight/ unit [kg]
AC coils		
24 VAC, 60 Hz	PDAL2/24AC60Hz	0.15
110 VAC, 50Hz	PDAL2/110AC50Hz	0.15
110 VAC, 60Hz	PDAL2/110AC60Hz	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	0.15
208 VAC, 60Hz	PDAL2/208AC60Hz	0.15
230 VAC, 50Hz	PDAL2/230AC50Hz	0.15
240 VAC, 60 Hz	PDAL2/240AC60Hz	0.15
DC coils		
24 VDC	PDAL2/24DC	0.15
48 VDC	PDAL2/48DC	0.15
60 VDC	PDAL2/60DC	0.15
110 VDC	PDAL2/110DC	0.15
125 VDC	PDAL2/125DC	0.15
220 VDC	PDAL2/220DC	0.15

Technical data for the coil		
Operating voltage		U=0.8...1.1 x Un
Operating ambient temperature		-40°...65°C
Power consumption	with AC	6.5 W
	with DC	9 VA

Mounting accessories: DIN-rail mounting kit

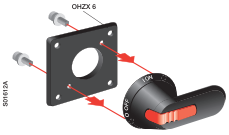
For mounting a fusible disconnect switch into 35 mm DIN-rail

Suitable for switches	Type	Weight/ unit [kg]
OS100GJ, 1-4 -pole	OSGZD1	0.20

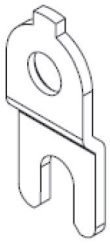
Miscellaneous accessories / Replacement parts



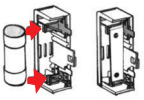
OTZS2



OHZX6



OEZKL1



OESAZD28 OESAZD55
OESAZD48



CYBY67121

Replacement parts

Accessory Type	Description	For Use On	Catalog number
Metal collar	Replaces original black knob for locking shaft in place	OT16F-200, OS30-200	OTZS2
Mounting feet	Replaces original mounting feet	OS60GJ, OS100, OT200U	OEZKL1
Screw	Screws for Mounting feet OEZKL1	OEZKL1	FPMH3.5X12X-TX15
Mounting feet	Replaces original mounting feet	OS200J, OS400J, OT400U, OT600U	OEZKL2
Screw	Screws for Mounting feet OEZKL2	OEZKL2	FPMH5X14X-TORX
Mounting feet	Replaces original mounting feet	OT800U, OT1200U, OS600J, OS800L, OS1200L	OEZKL3
Pole Cover	Replaces original pole cover	OT200U	CXBY68641
Mechanism Cover	Replaces original mechanism cover	OT200U	CXBY68648/9
Pole Cover	Replaces original pole cover	OT400U	CXBY68651
Mechanism Cover	Replaces original mechanism cover	OT400U	CXBY68688
Pole Cover	Replaces original pole cover	OT600U	CXBY68679
Mechanism Cover	Replaces original mechanism cover	OT600U	CXBY68791
Pole Cover	Replaces original pole cover	OT800U...OT2000U	CXBY68746
Mechanism Cover	Replaces original mechanism cover	OT800U...OT2000U	CXBY68825

Fuse cover, window & label set			Mechanism cover & label set	
For Use On	Catalog number	Units/Type pcs	Catalog number	Units/Type pcs
OS30FACC_, OS30FAJ	OSFC16	1	–	1
OS60GJ	OSFC2/B10	10	OSMC1/B4	4
OS100GJ_	OSFC5/B10	10	OSMC1/B4	–
OS200J_	OSFC7/B10	10	OSMC2/B4	4
OS400J_	OSFC10/B4	4	OSMC3	1
OS600J_, OS800L_	OSFC11	1	OSMC4	1
OS1200L_	OSFC12	1	OSMC5	1

Replacements parts

Accessory Type	Description	For Use On	Catalog number
Red Plastic Hasp	Replaces original red plastic hasp for pistol handles	Pistol Handles	CXBY68339/P
Red Plastic Hasp	Replaces original red plastic hasp for selector handles	Selector Handles	CXBY68219/P
Stainless Steel Hasp	Stainless steel hasp for pistol handles, doesn't include pin	Pistol Handles	OHZX13
Stainless Steel Hasp	Replaces original stainless steel hasp for selector handles	Selector Handles	OHZX12
Pistol Handle Adapter	For door mounted switches, comes with short shaft	OS30, 60, 100FT3	OHZX6

Replacement Knob - mounts directly to switch; no shaft necessary.

UL/NEMA type	Color	For Use On	Lenght (mm)	Padlockable	Catalog number
1	Black	OT16, OT25, OT40	25	–	CXBY68989
1	Black	OS63, OT80, OT16, OT25, OT40	35	–	CXBY68998

Fuse carriers - (replacement part)

Description	For Use On	Catalog number
CC fuse carrier	OS30FACC_	OESAZD48
J fuse carrier	OS30FAJ_	OESAZD28
Solid link carrier	OS30_	OESAZD55

Terminal cover - (replacement part)

Description	For Use On	Catalog number
Covers terminal below fuse carrier	OS30FA_	CXBY67121

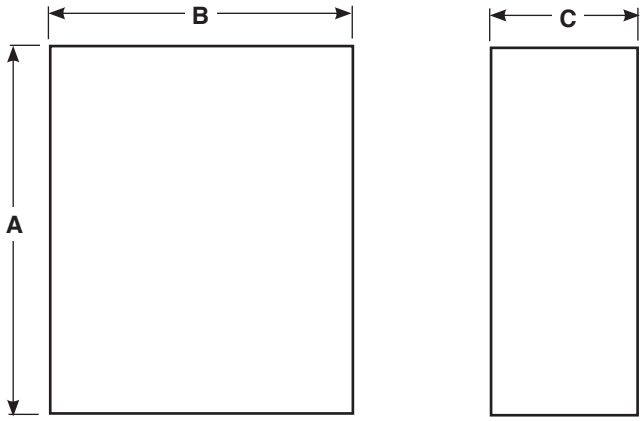
Dimension drawings

Dimension drawings:

Enclosed switches	7/4
Manual disconnect switches	7/7
Modular change-over switches	7/23
Front operated fusible disconnect switches	7/26
Side operated fusible disconnect switches	7/31
Flange operated disconnect switch cable operated fusible	7/35
Flange operated disconnect switch cable operated non-fusible	7/44
Accessories for manual disconnect switches	7/52

SafeLine
Dimensions
600V 16-1200A Amps

Dimensions for metal and stainless steel enclosures
Type 1, 12, 4 and 4X



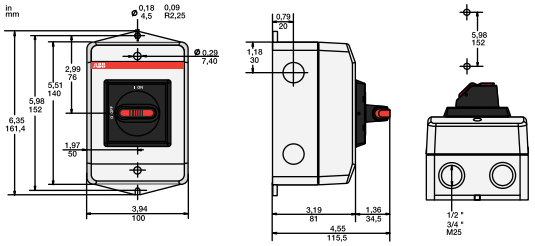
Non-fusible switches NF*-3P

	A Height	B Width	C Depth
NF16, NF32	6	5	4
NF30, NF45, NF60, NF63	10	5	4
NF100	16	6	4
NF200	24	14	8
NF400	36	24	10
NF600	36	24	10
NF800	48	24	12
NF1200	48	24	12

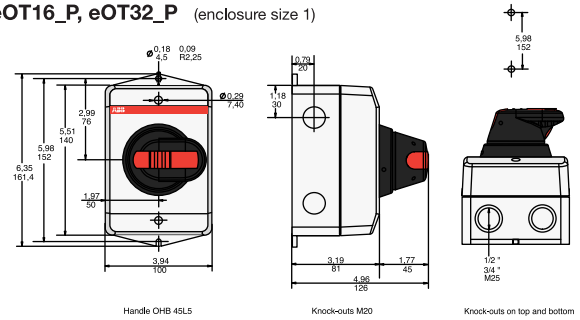
Fusible switches FJ*-3P

	A Height	B Width	C Depth
F30	10	8	6
F60	10	8	6
F100	16	10	6
F200	24	14	8
F400	36	24	10
F600	36	24	10
NF800	48	24	12

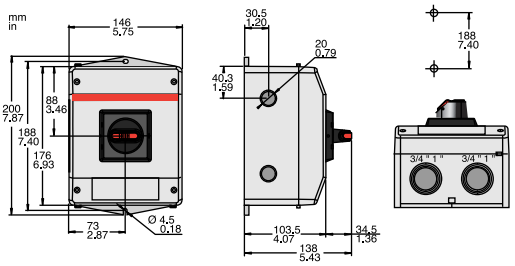
eOT16_S, eOT32_S (enclosure size 1)



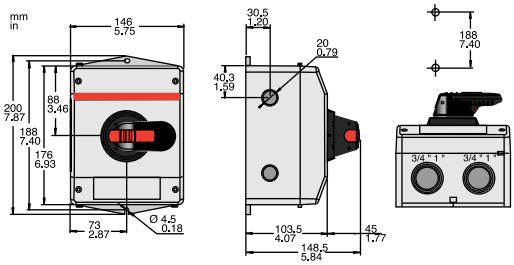
eOT16_P, eOT32_P (enclosure size 1)



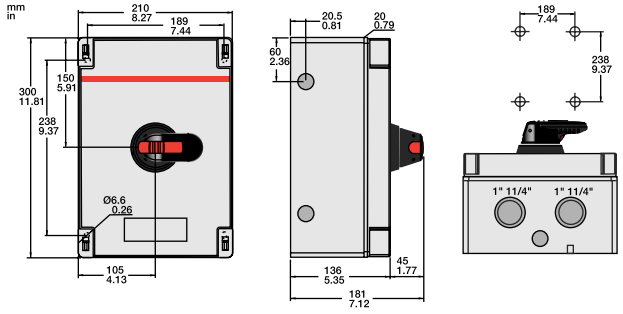
eOT45U_S (enclosure size 2)



eOT45U_P (enclosure size 2)



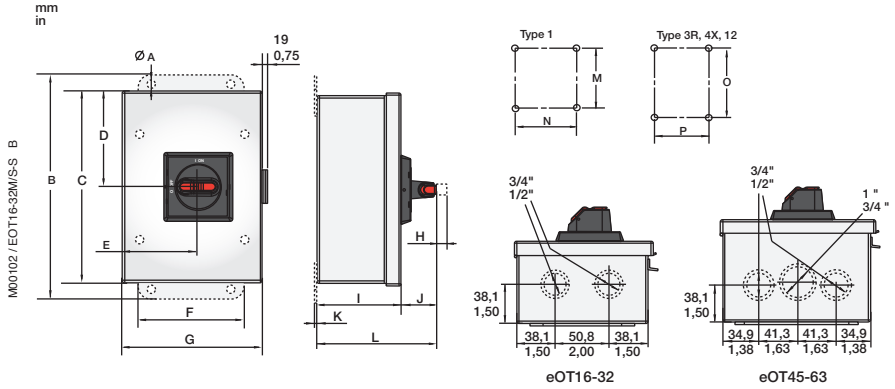
eOT30, 60



Dimension drawings

Sheet steel and stainless steel enclosed manual motor controllers

eOT16/32_-S, eOT45-63_S



Knock-outs in top and bottom of type 1 enclosures

eOT16-32

Dimension [mm/in]

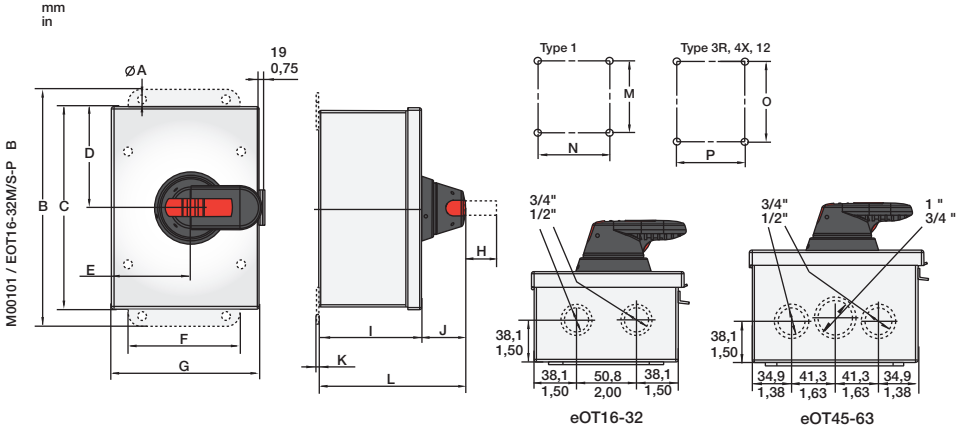
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
7.9/0.31	215.9/8.50	183.4/7.22	91.7/3.61	73.7/2.90	101.6/4.00	134.1/5.28	19.0/0.75	83.3/3.28	35.5/1.36	2.8/0.11	117.9/4.64	101.6/4.0	101.6/4.0	196.9/7.75	76.2/3.00

eOT45-62

Dimension [mm/in]

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
7.9/0.31	241.3/9.50	208.8/8.22	104.4/4.11	86.1/3.39	127.0/5.00	159.5/6.28	19.0/0.75	108.7/4.28	34.5/1.36	2.8/0.11	143.3/5.64	127.0/5.0	127.0/5.0	222.3/8.75	101.6/4.00

eOT16/32_-P/M, eOT45-63_-P/M



Knock-outs in top and bottom of type 1 enclosures

eOT16-32

Dimension [mm/in]

Handle code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
-P	7.9/0.31	215.9/8.50	183.4/7.22	91.7/3.61	73.7/2.90	101.6/4.00	134.1/5.28	36.6/1.42	83.3/3.28	45.0/1.77	2.8/0.11	128.3/5.05	101.6/4.0	101.6/4.0	196.9/7.75	76.2/3.00
-M	7.9/0.31	215.9/8.50	183.4/7.22	91.7/3.61	73.7/2.90	101.6/4.00	134.1/5.28	36.6/1.42	83.3/3.28	52.0/2.05	2.8/0.11	135.5/5.33	101.6/4.0	101.6/4.0	196.9/7.75	76.2/3.00

eOT16-32

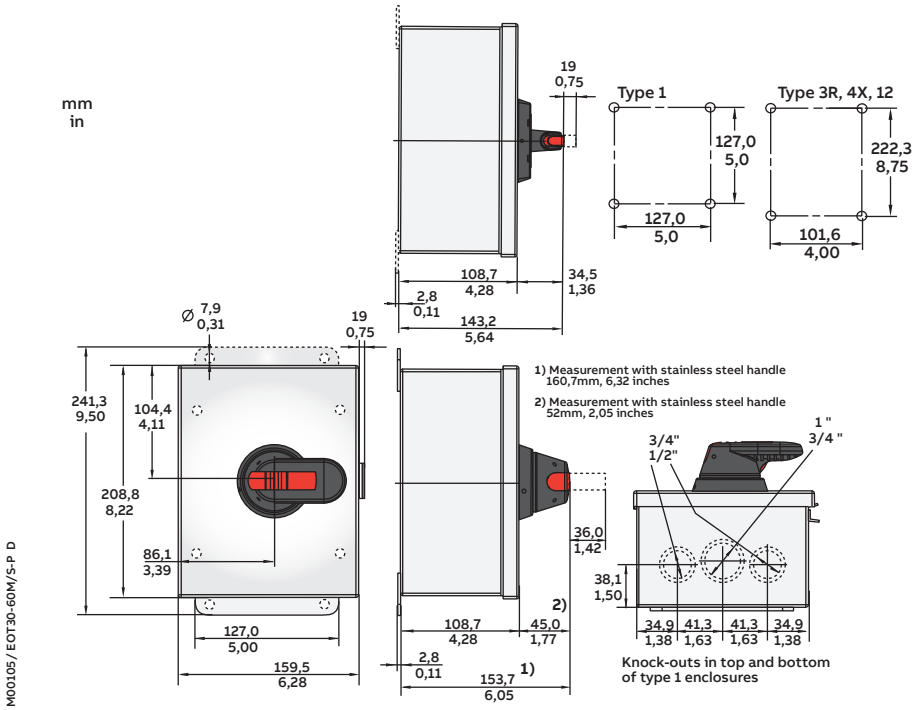
Dimension [mm/in]

Handle code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
-P	7.9/0.31	241.3/9.50	208.8/8.22	104.4/4.11	86.1/3.39	127.0/5.00	159.5/6.28	36.0/1.42	108.7/4.28	45.0/1.77	2.8/0.11	153.7/6.05	127.0/5.0	127.0/5.0	222.3/8.75	101.6/4.00
-M	7.9/0.31	241.3/9.50	208.8/8.22	104.4/4.11	86.1/3.39	127.0/5.00	159.5/6.28	36.0/1.42	108.7/4.28	52.0/2.05	2.8/0.11	160.7/6.32	127.0/5.0	127.0/5.0	222.3/8.75	101.6/4.00

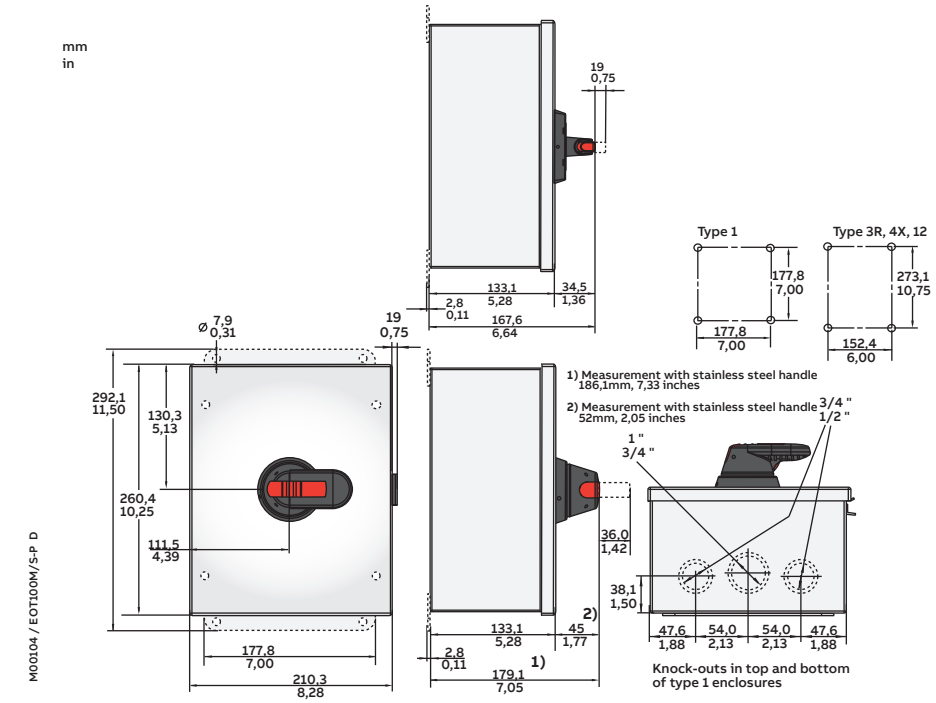
Dimension drawings

Sheet steel and stainless steel enclosed manual motor controllers

eOT30U3_, eOT60U3_



eOT100_

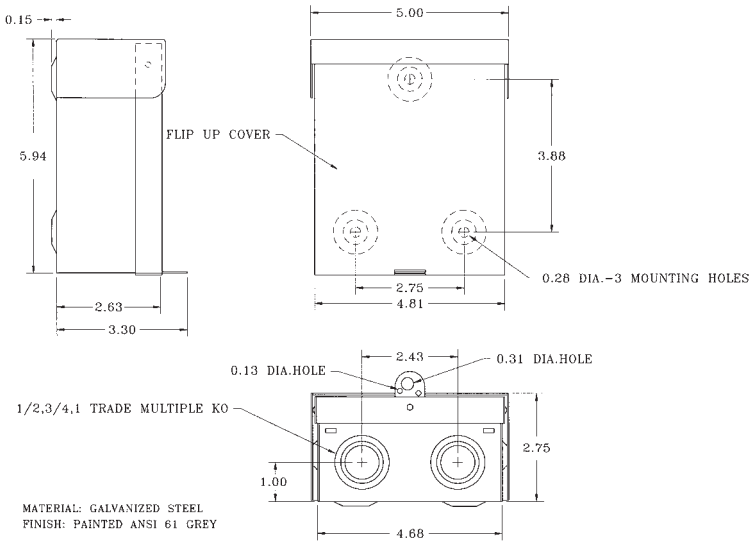


7

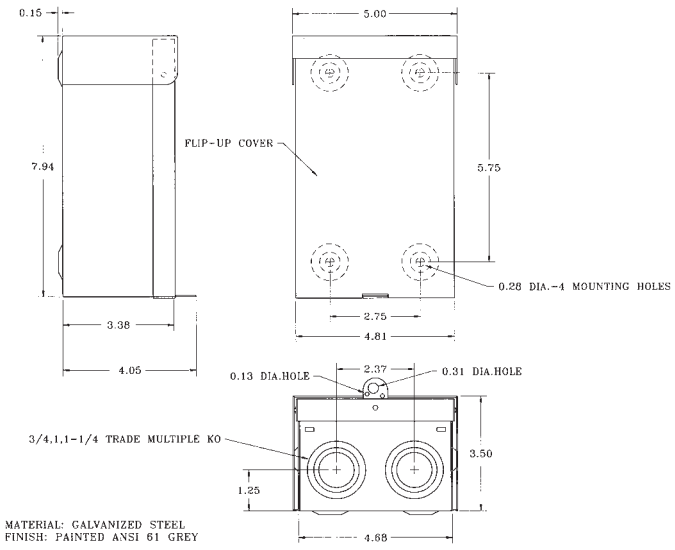
Dimension drawings

Flipcover enclosed switch with metal enclosures enclosed manual motor controllers

NF163-3, NF403-3



NF603-3, NF803-3



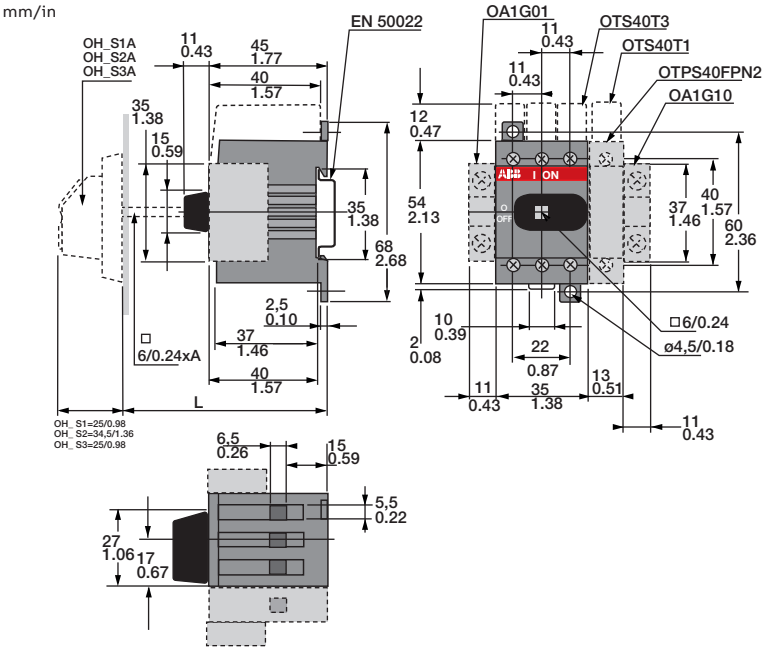
Manual disconnect switches OT16...160
Dimensional drawings

Front operated disconnect switches, base and DIN-rail mounting, IEC and UL/CSA

OT16...40F3, _F4

Shafts OXS	Handle OH_S1	Handle OH_S2
A [mm/in]	L min-max	L min-max
85/3.35	107-126/4.22-4.96	93-110/3.66-4.33
105/4.14	127-146/5-5.75	113-130/4.45-5.12
120/4.73	142-161/5.59-6.34	128-145/5.04/5.71
130/5.13	152-171/5.99-6.74	138-155/5.44-6.11
160/6.3	182-201/7.17-7.92	168-185/6.62-7.29
180/7.09	202-221/7.96-8.71	188-205/7.4-8.08
250/9.85	272-291/10.71-11.46	258-275/10.16-10.83
330/13	352-371/13.87-14.62	338-355/13.32-13.99

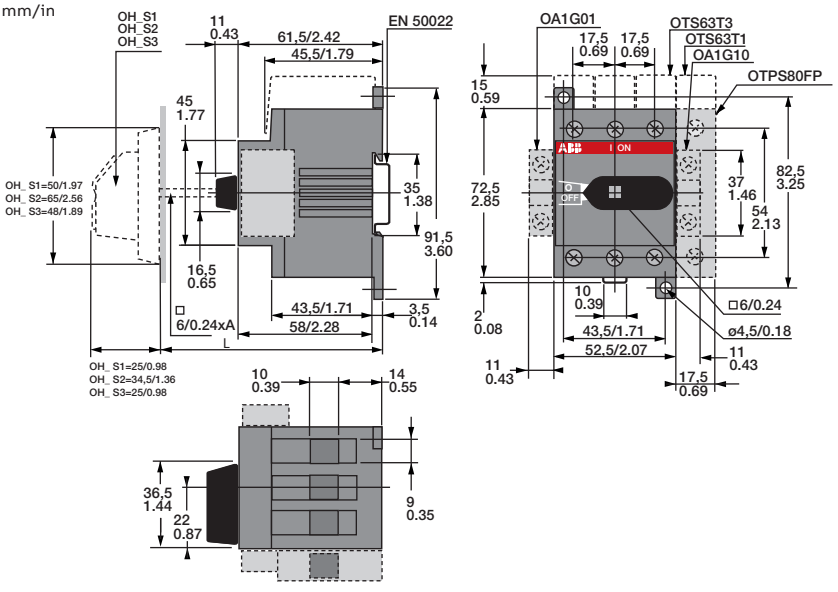
Shafts OX	Handle OZ331_P
A [mm/in]	L min-max
60/2.36	92-120/3.62-4.73
85/3.35	117-145/4.61-5.71
105/4.14	137-165/5.4/6.5
115/4.53	147-175/5.79-6.89
130/5.12	162-190/6.38-7.48
155/6.11	187-215/7.37-8.47
200/7.88	232-260/9.14-10.24
300/11.82	332-360/13.08-14.18



OT63...80F3, _F4

Shafts OXS	Handle OH_S1	Handle OH_S2
A [mm/in]	L min-max	L min-max
85/3.35	123,5-142,5/4.87-5.61	109,5-126,5/4.31-4.98
105/4.14	143,5-162,5/5.65-6.4	129,5-146,5/5.1-5.77
120/4.73	158,5-177,5/6.24-6.99	144,5-161,5/5.69-6.36
130/5.13	168,5-187,5/6.64-7.38	154,5-171,5/6.09-6.75
160/6.3	198,5-217,5/7.82-8.57	184,5-201,5/7.27-7.94
180/7.09	218,5-237,5/8.61-9.36	204,5-221,5/8.06-8.73
250/9.85	288,5-307,5/11.36-12.12	274,5-291,5/10.81-11.48
330/13	368,5-398,5/14.52-15.7	354,5-371,5/13.97-14.63

Shafts OX	Handle OZ331_P
A [mm/in]	L min-max
60/2.36	108,5-136,5/4.27-5.38
85/3.35	133,5-161,5/5.26-6.36
105/4.14	153,5-181,5/6.05-7.15
115/4.53	163,5-191,5/6.44-7.54
130/5.12	178,5-206,5/7.03-8.14
155/6.11	203,5-231,5/8.02-9.12
200/7.88	248,5-276,5/9.79-10.89
300/11.82	348,5-376,5/13.73-14.83



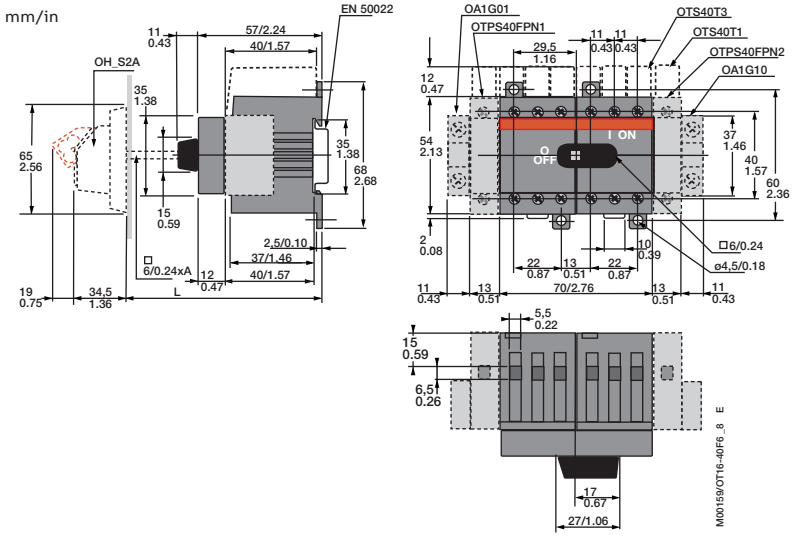
Manual disconnect switches OT16...160
Dimensional drawings

Front operated 6- and 8-pole disconnect switches, base and DIN-rail mounting, IEC and UL/CSA

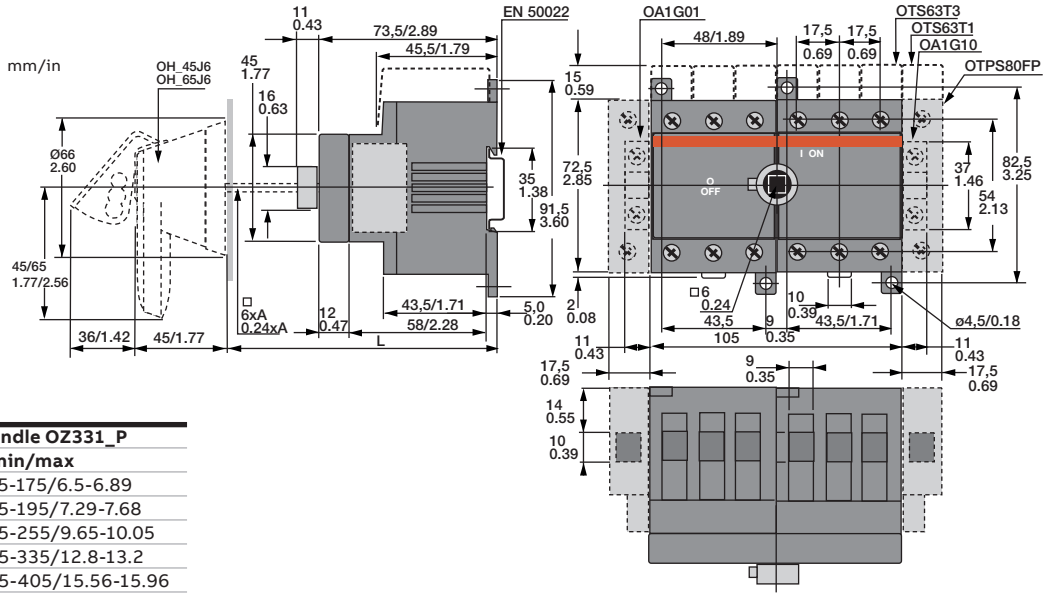
OT16...40F6, _F8

Shafts OXS	Handle OH_S1	Handle OH_S2
A [mm/in]	L min/max	L min/max
85/3.35	110-120/4.33-4.73	124-136/4.88-5.36
105/4.14	130-140/ 5.12-5.51	144-156/5.67-6.14
120/4.73	145-155/ 5.71-6.11	159-171/ 6.26-6.74
130/5.13	155-165/ 6.11-6.5	169-181/ 6.66-7.13
160/6.3	185-195/ 7.29-7.69	199-211/7.84-8.31
180/7.09	205-215/ 8.08-8.47	219-231/8.63-9.1
250/9.85	272-285/ 10.71-11.23	289-301/ 11.38-11.86
330/13	355-365/ 13.99-14.38	369-381/ 14.54-15.01

Shafts OX	Handle OZ331_P
A [mm/in]	L min/max
60/2.36	109-130/4.29-5.12
85/3.35	134-155/5.28-6.11
105/4.14	154-175/6.07-6.89
115/4.53	164-185/6.46-7.29
130/5.12	179-200/7.06-7.88
155/6.11	204-225/8.04-8.86
200/7.88	249-270/3.86-10.64
300/11.82	349-370/13.75-14.58



Front operated 6- and 8-pole disconnect switches, base and DIN-rail mounting, IEC and UL/CSA



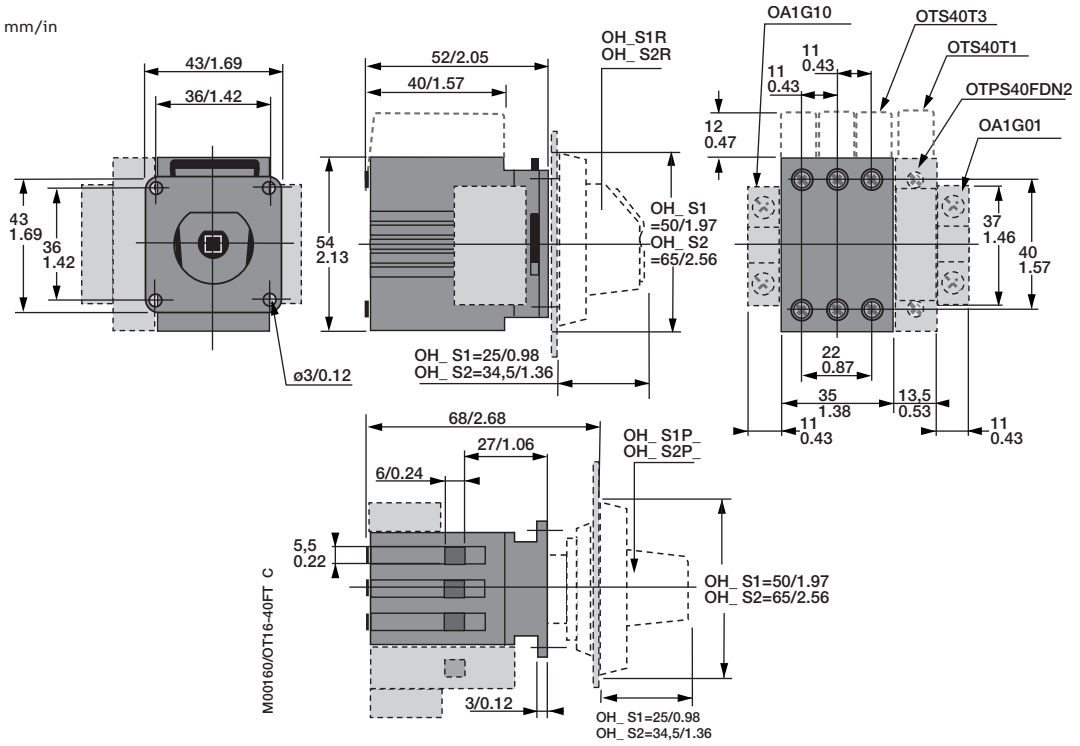
OT63...80F6, _F8

OH_45J6, OH_65J6	Handle OZ331_P
A [mm/in]	L min/max
130/5.12	165-175/6.5-6.89
150/5.91	185-195/7.29-7.68
210/8.27	245-255/9.65-10.05
290/11.42	325-335/12.8-13.2
360/14.18	395-405/15.56-15.96
430/16.94	465-475/18.32-18.71

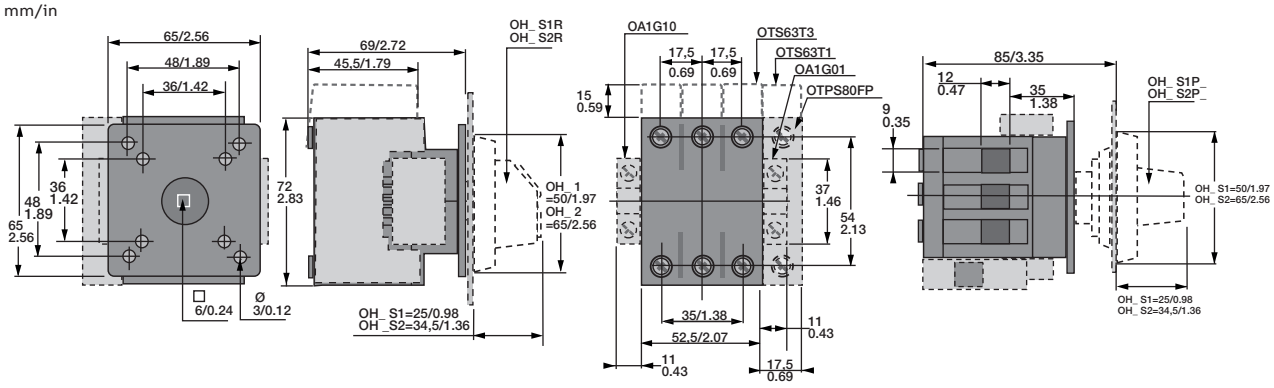
Manual disconnect switches OT16...160
Dimensional drawings

Front operated disconnect switches, door mounting, IEC

OT16...40FT3, _FT4, door mounting

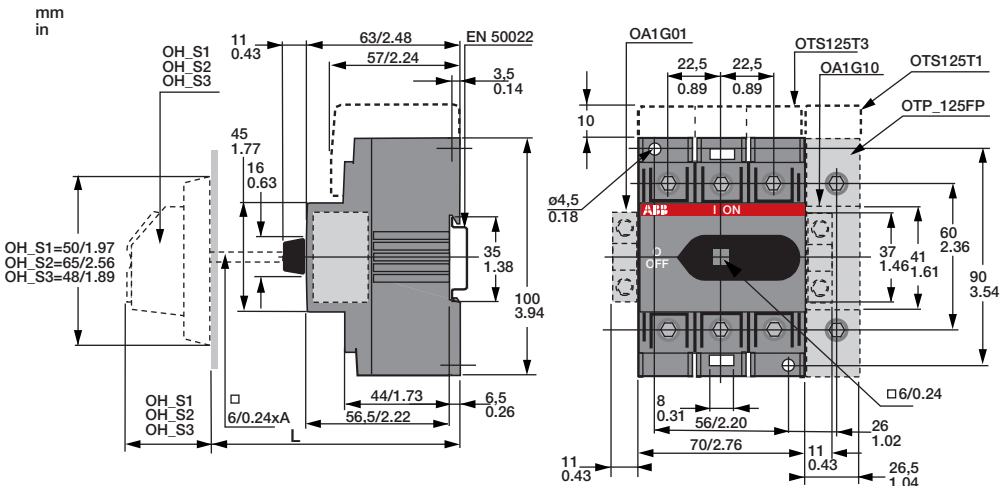


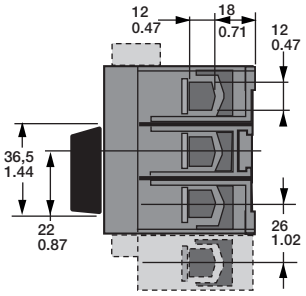
OT63...80FT3, _FT4, door mounting



Manual disconnect switches OT16...160
Dimensional drawings

OT30, 60, 100, F3, _F4

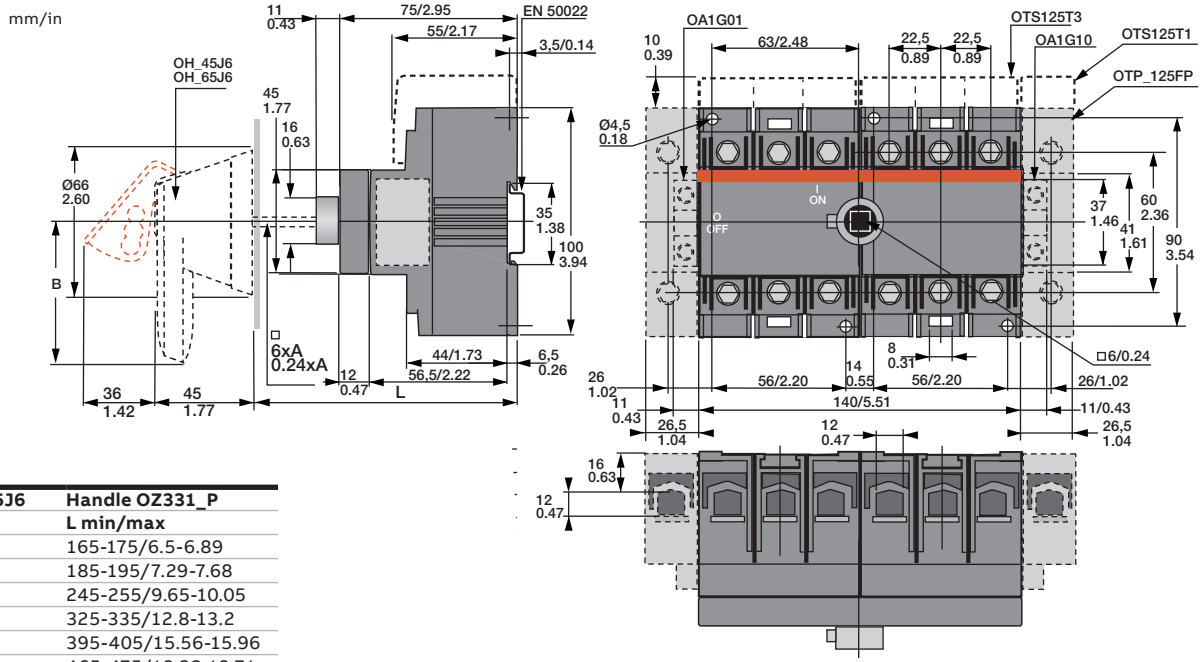




Shafts OXS	Handle OH_S2	Handle OH_S1
A [mm/in]	L min-max	L min-max
85/3.35	127-139/5-5.48	113-123/4.45-4.85
105/4.14	147-159/5.79-6.26	133-143/5.24-5.63
120/4.73	162-174/6.38-6.85	148-158/5.83-6.22
130/5.13	172-184/6.77-7.25	158-168/6.22-6.62
160/6.3	202-214/7.96-8.43	188-198/7.4-7.8
180/7.09	222-234/8.75-9.22	208-218/8.19-8.59
250/9.85	292-304/11.5-11.98	278-288/10.95-11.34
330/13	372-384/14.65-15.13	358-368/14.1-14.5

Shafts OX	Handle OZ331_P
A [mm/in]	L min-max
60/2.36	112-133/4.41-5.24
85/3.35	137-158/5.4-6.22
105/4.14	157-178/6.18-7.01
115/4.53	167-188/6.58-7.4
130/5.12	182-203/7.17-8
155/6.11	207-228/8.16-8.98
200/7.88	252-273/9.93-10.75
300/11.82	352-373/13.87-14.69

OT100, F6, _F8

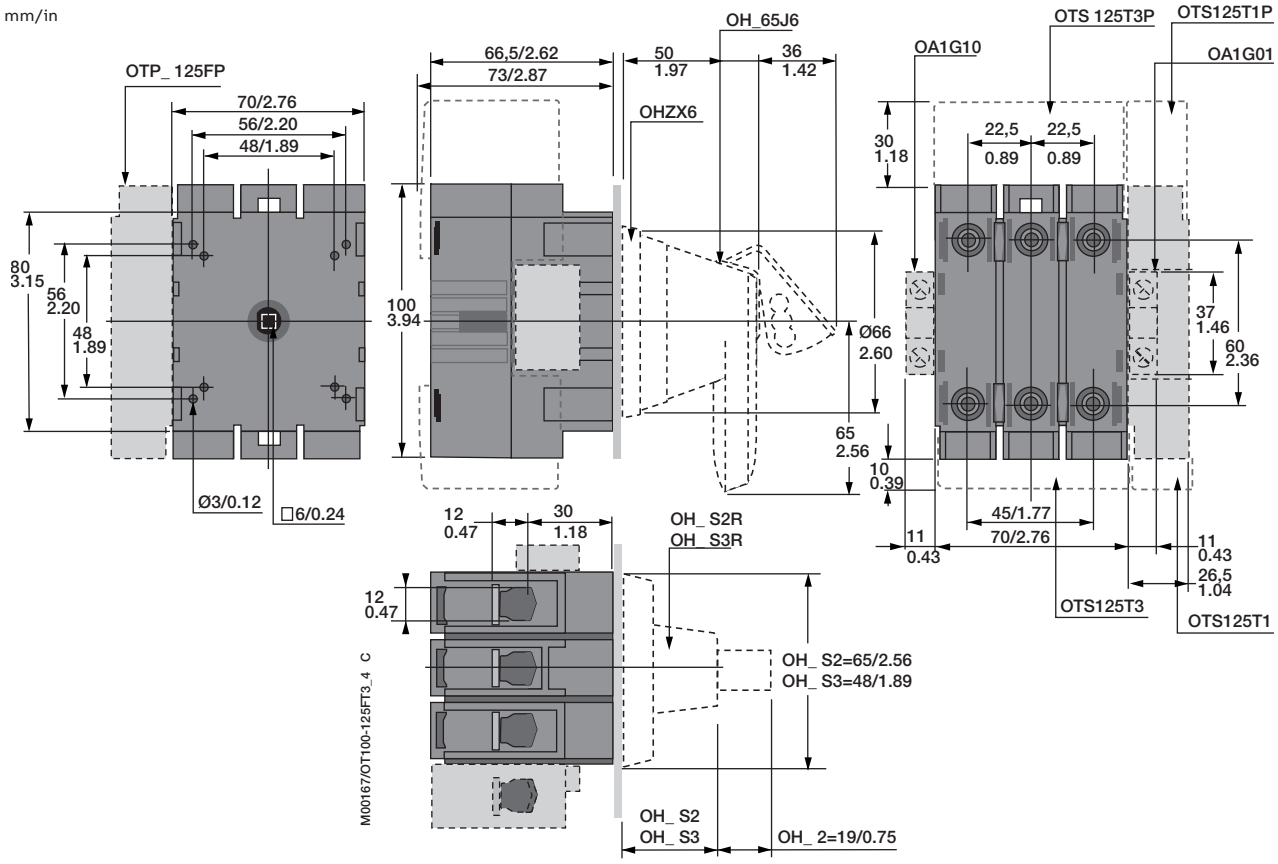


OH_45J6 OH_65J6	Handle OZ331_P
A [mm/in]	L min/max
130/5.12	165-175/6.5-6.89
150/5.91	185-195/7.29-7.68
210/8.27	245-255/9.65-10.05
290/11.42	325-335/12.8-13.2
360/14.18	395-405/15.56-15.96
430/16.94	465-475/18.32-18.71

Manual disconnect switches OT16...160
Dimensional drawings

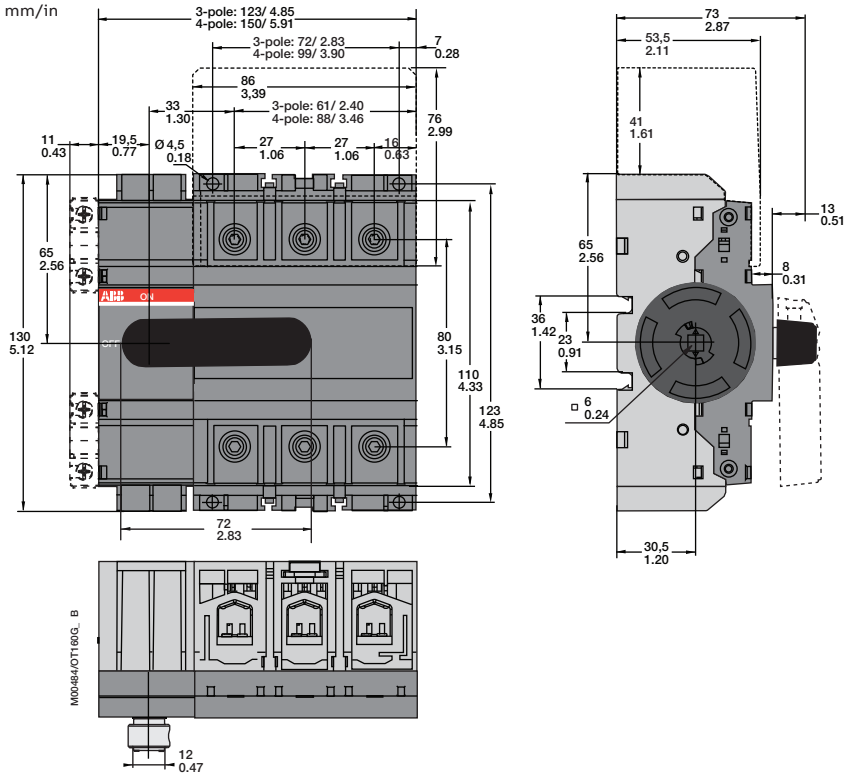
Front operated disconnect switches, door mounting, IEC and UL/CSA

OT100, FT3, _FT4, door mounting

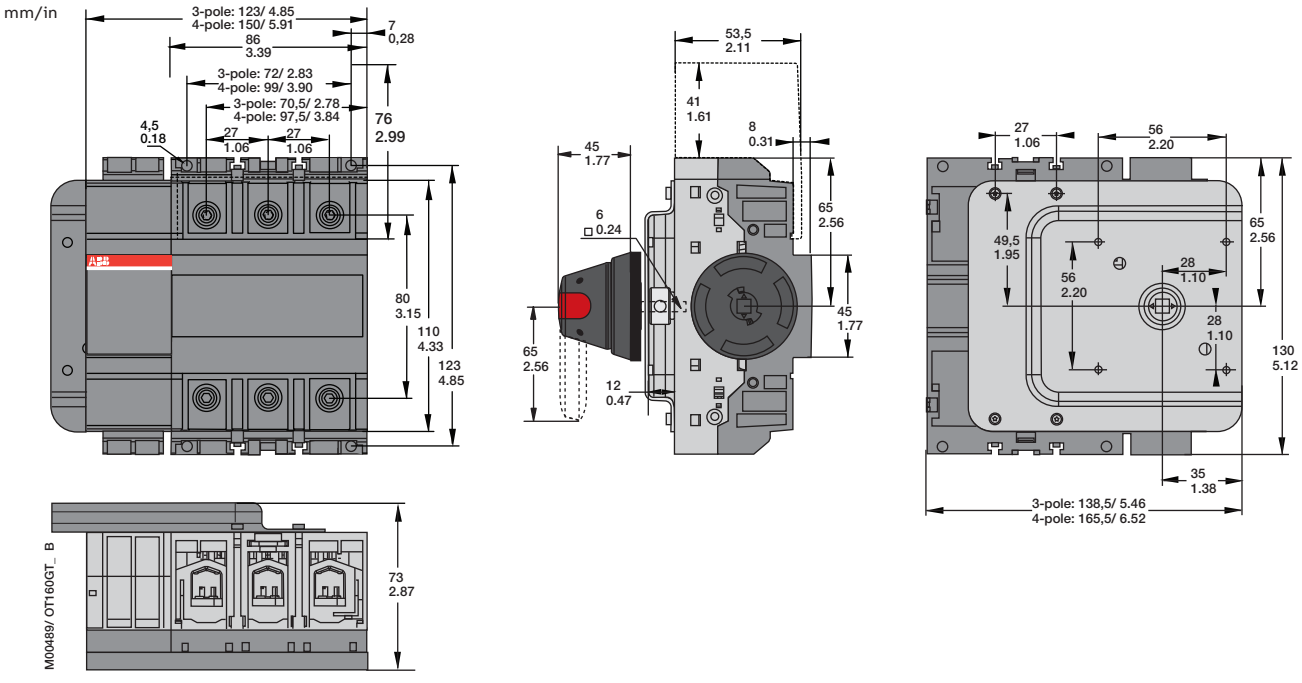


Manual disconnect switches OT16...160
Dimensional drawings

OT160G disconnect switches, IEC and UL/CSA
OT160G03/04_



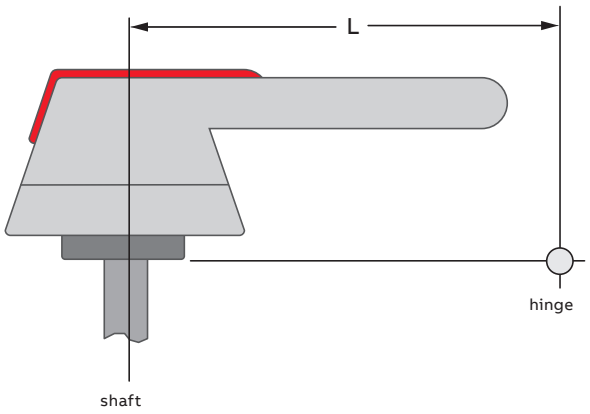
OT160GT03/04_



Manual disconnect switches OT16...160
Dimensional drawings

Minimum distance L between the hinge, handle and shaft

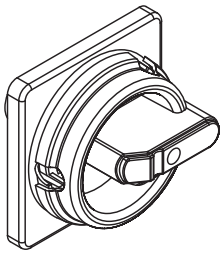
Sizes [A]	Length L [mm/in]	Handle type
OT16...100	75/2.95	OH_1, OH_2, OH_3

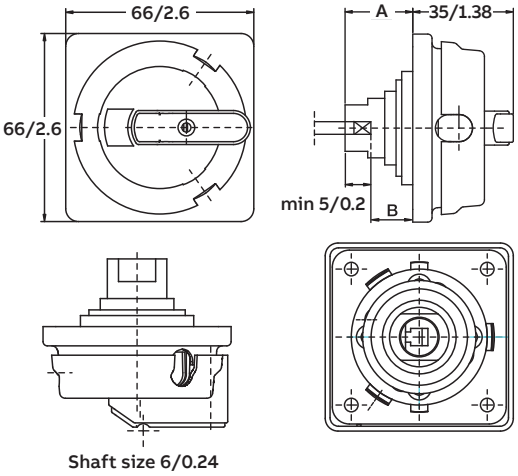


Round padlockable handle types OZ331P_ and OZ371P_

Handle type [mm/in]	OZ331P_	OZ371_
A	24/0.94	21/0.83
B	3-10/0.12-0.39	4-5/0.16-0.20

mm/in



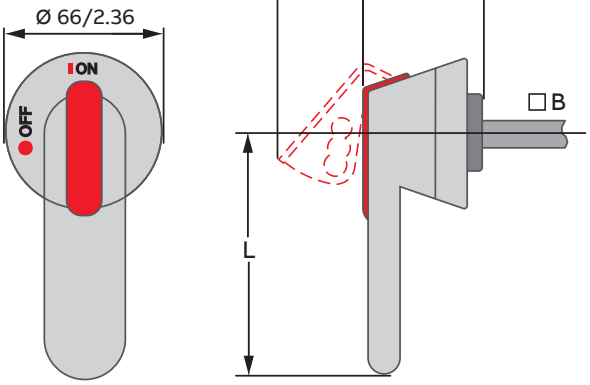


Shaft size 6/0.24

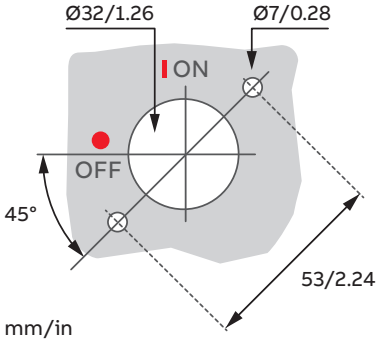
Pistol handle

Handle type [mm/in]	Shaft diameter B	Length L
OH_45J6	6/0.24	45/1.77

mm/in



Door drilling for OH_ handles:



mm/in

Manual disconnect switches OT200...2000
Dimensional drawings

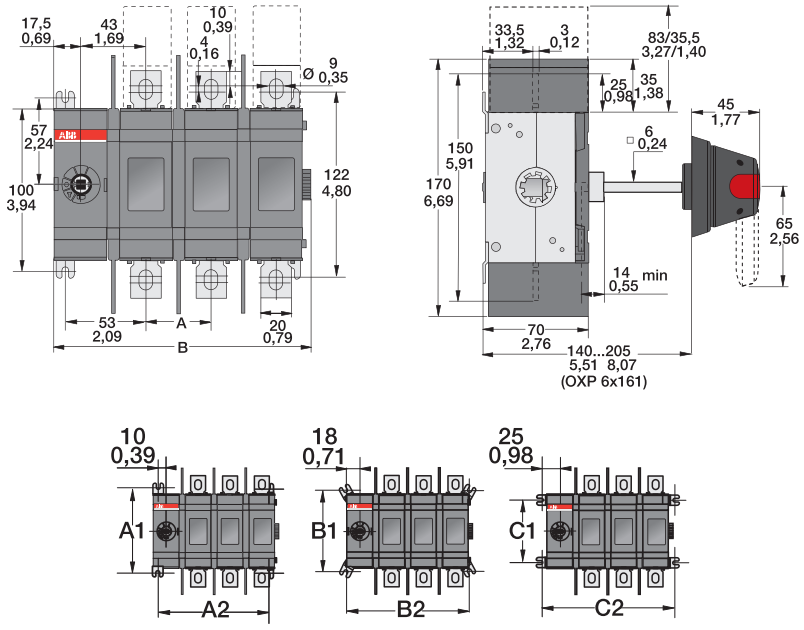
Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA

OT200U_

OT200

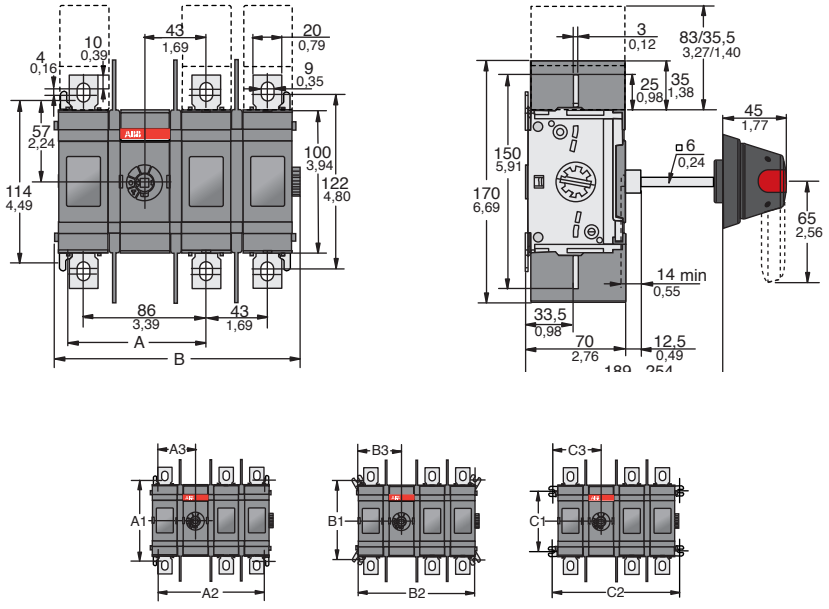
[mm/in]	U01	U02	U03	U04
A	–	43/1.69	43/1.69	43/1.69
B	83.5/3.24	126.5/4.98	169.5/6.67	212.5/8.37
A1	114/4.49	114/4.49	114/4.49	114/4.49
A2	63/2.48	106/4.17	149/5.87	192/7.56
B1	109.5/4.31	109.5/4.31	109.5/4.31	109.5/4.31
B2	79/3.11	122/4.80	165/6.50	208/8.19
C1	84/3.31	84/3.31	84/3.31	84/3.31
C2	93/3.66	136/5.35	179/7.05	222/8.74

mm/in



OT200

[mm/in]	U11	U12	U13	U22
A	96/3.78	96/3.78	96/3.78	139/5.47
B	131.5/5.18	174.5/6.87	217.5/8.56	217.5/8.56
A1	114/4.49	114/4.49	114/4.49	114/4.49
A2	106/4.17	149/5.87	192/7.56	192/7.56
A3	53/2.09	53/2.09	53/2.09	96/3.78
B1	109.5/4.31	109.5/4.31	109.5/4.31	109.5/4.31
B2	122/4.80	165/6.50	208/8.19	208/8.19
B3	61/2.40	61/2.40	61/2.40	104/4.09
C1	84/3.31	84/3.31	84/3.31	84/3.31
C2	136/5.35	179/7.05	222/8.74	222/8.74
C3	68/2.68	68/2.68	68/2.68	111/4.37



Manual disconnect switches OT200...2000
Dimensional drawings

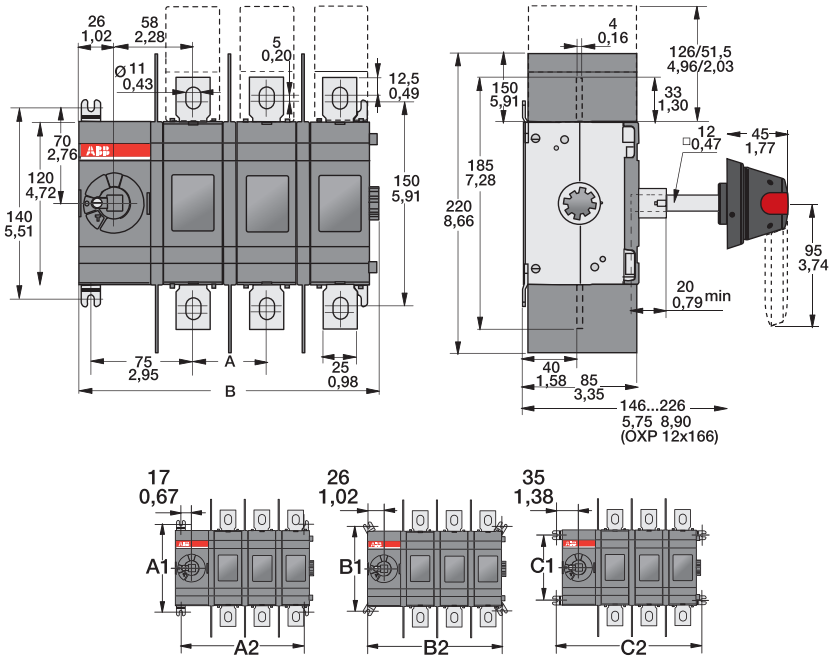
Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA

OT400U_

OT400

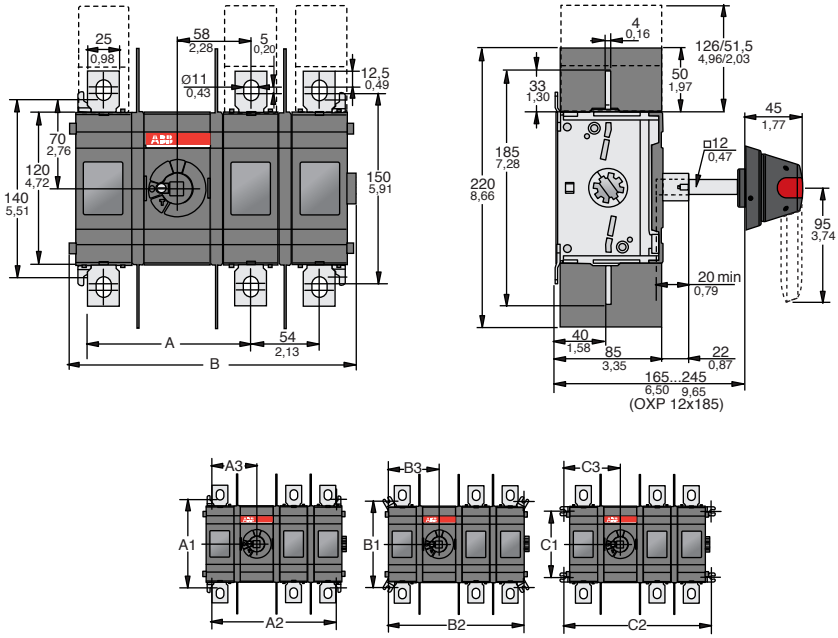
[mm/in]	U01	U02	U03	U04
A	–	54/2.13	54/2.13	54/2.13
B	113/4.45	167/6.58	221/8.70	275/10.83
A1	140/5.51	140/5.51	140/5.51	140/5.51
A2	88/3.47	142/5.59	196/7.72	250/9.84
B1	135/5.32	135/5.32	135/5.32	135/5.32
B2	106/4.17	160/4.17	214/8.43	268/10.55
C1	104/4.09	104/4.09	104/4.09	104/4.09
C2	124/4.88	178/7.01	232/9.13	286/11.27

mm/in



OT400

[mm/in]	U11	U12	U13	U22
A	129/5.08	129/5.08	129/5.08	183/7.21
B	172/6.77	226/8.90	280/11.02	280/11.02
A1	140/5.51	140/5.51	140/5.51	140/5.51
A2	142/5.59	196/7.72	250/9.84	250/9.84
A3	71/2.80	71/2.80	71/2.80	125/4.92
B1	135/5.32	135/5.32	135/5.32	135/5.32
B2	160/6.30	214/8.43	268/10.55	268/10.55
B3	80/3.15	80/3.15	80/3.15	134/5.28
C1	104/4.09	104/4.09	104/4.09	104/4.09
C2	178/7.01	232/9.13	286/11.26	286/11.27
C3	89/3.50	89/3.50	89/3.50	143/5.63



Manual disconnect switches OT200...2000
Dimensional drawings

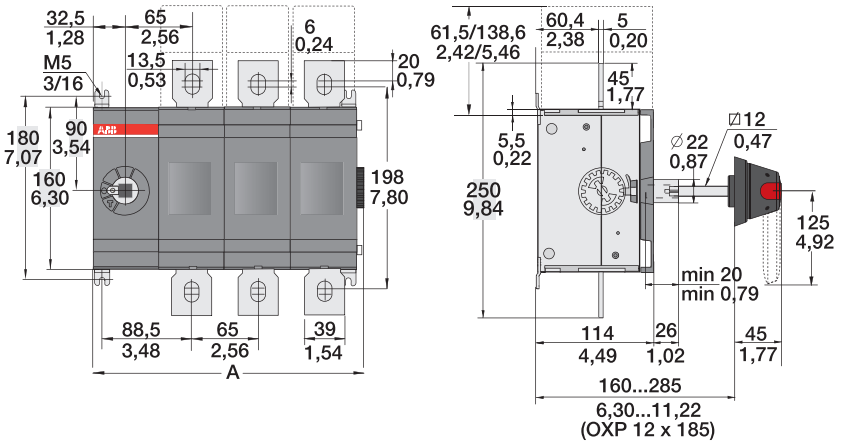
Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CS

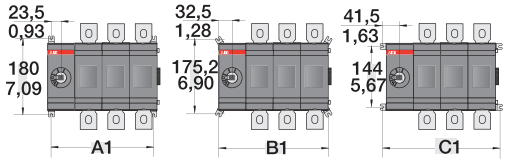
OT600U_

OT600_

[mm/in]	U01	U02	U03	U04
A	136/5.35	201/7.91	266/10.47	331/13.03
A1	112/4.41	177/6.97	242/9.53	307/12.09
B1	130/5.12	195/7.68	260/10.24	325/12.80
C1	148/5.83	213/8.39	278/10.95	343/13.50

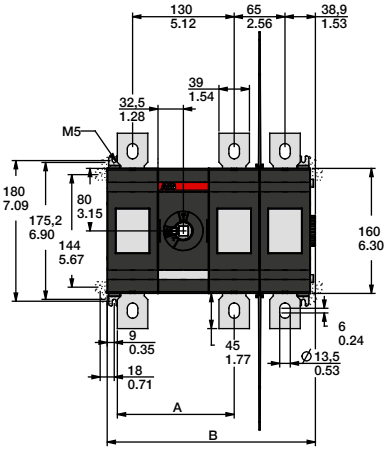
mm/in

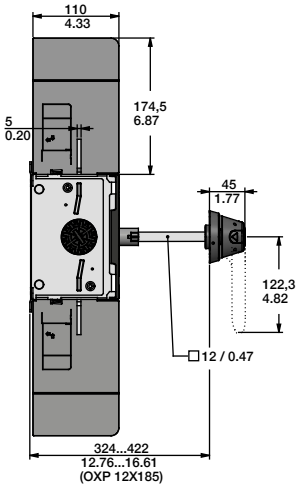


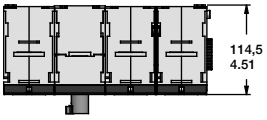


OT600

[mm/in]	U11	U12	U13	U22
A	156.3/6.15	156.3/6.15	156.3/6.15	221.3/8.71
B	201.4/7.93	266.4/10.49	331.4/13.05	331.4/13.05



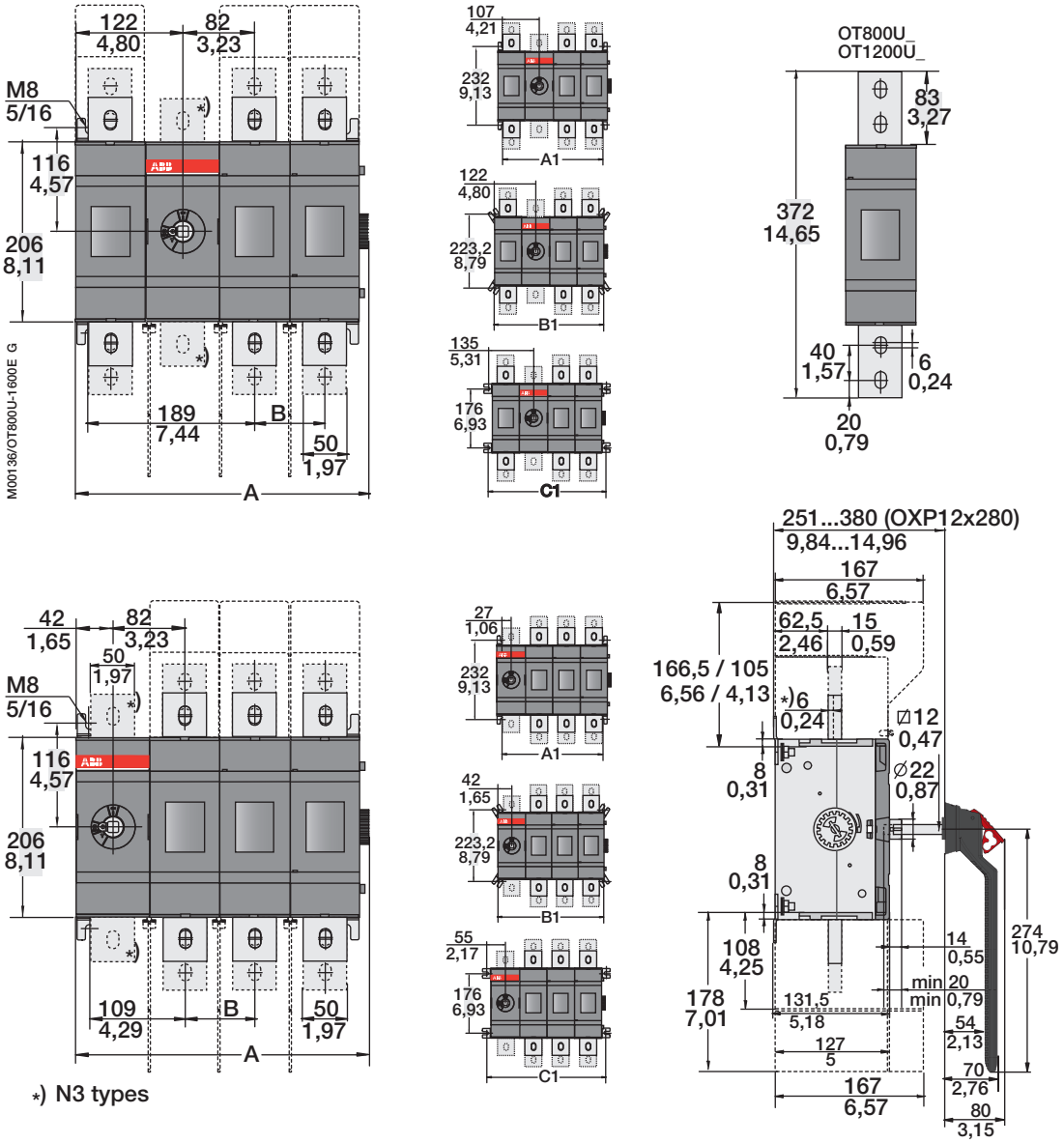




Manual disconnect switches OT200...2000
Dimensional drawings

Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA
OT800U_P and OT1200U_P

mm/in



*) N3 types

OT800/1200 U_P

[mm/in]	01	02	03	04	11	12	13	22
A	174.50/6.87	254.50/10.02	334.50/13.17	414.50/16.32	254.50/10.02	334.50/13.17	414.50/16.32	414.50/16.32
B		80/3.15	80/3.15	80/3.15		80/3.15	80/3.15	80/3.15
A1	134/5.28	214/8.43	294/11.57	374/14.72	214/8.43	294/11.57	374/14.72	374/14.72
B1	164/6.46	244/9.61	324/12.76	404/15.91	244/9.61	324/12.76	404/15.91	404/15.91
C1	190/7.48	270/10.63	350/13.78	430/16.93	270/10.63	350/13.78	430/16.93	430/16.93

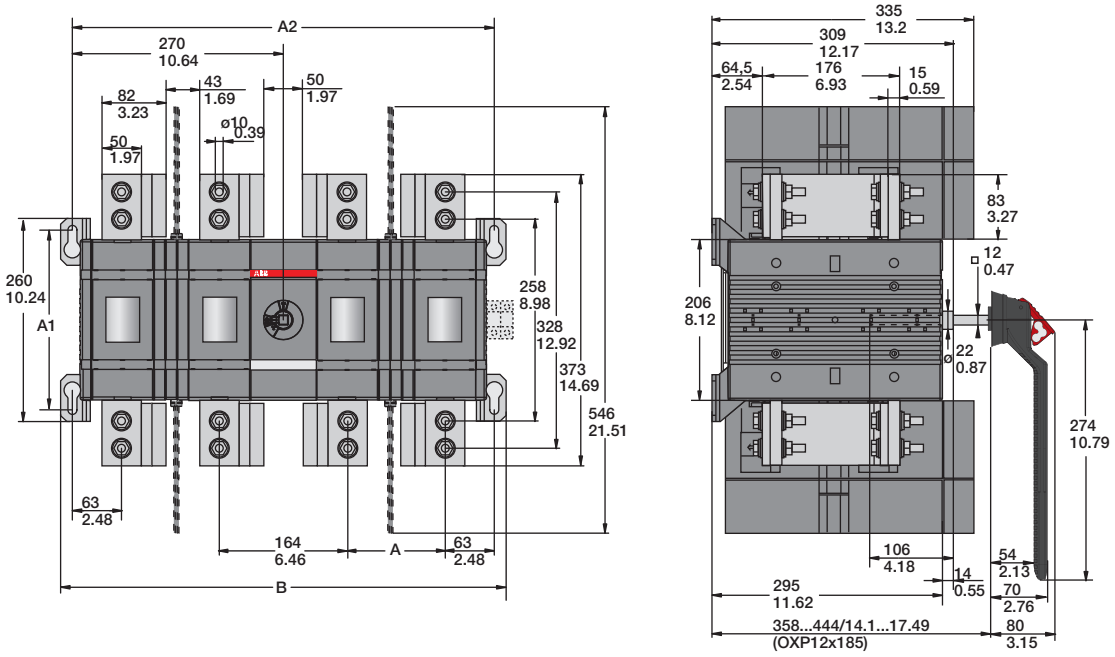
Manual disconnect switches OT200...2000
Dimensional drawings

Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA

OT1600...2000U

Mechanism between the poles

mm/in



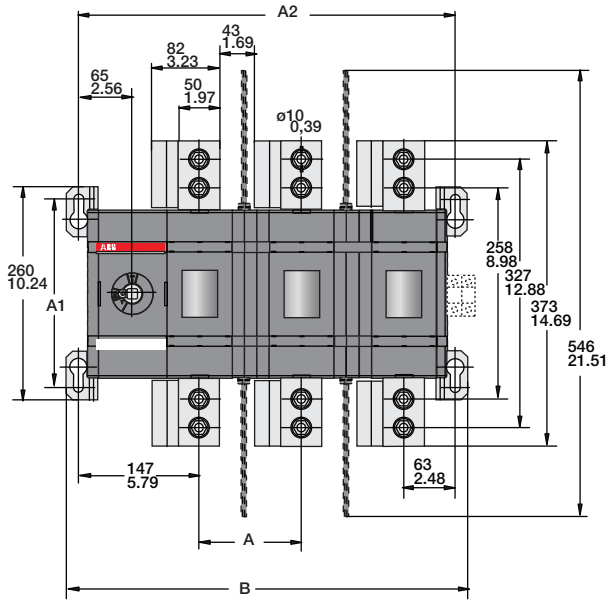
OT1600-2000U

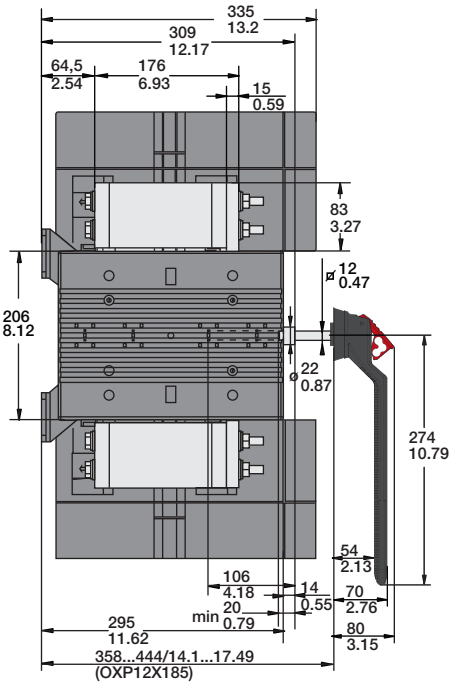
[mm/in]	12	13	22
A	125/4.92	125/4.92	125/4.92
A1	230/9.06	230/9.06	230/9.06
A2	415/16.35	540/21.27	540/21.27
B	445/17.53	570/22.46	570/22.46

Manual disconnect switches OT200...2000
Dimensional drawings

Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA
OT1600...2000U
Mechanism at the end of the switch

mm/in



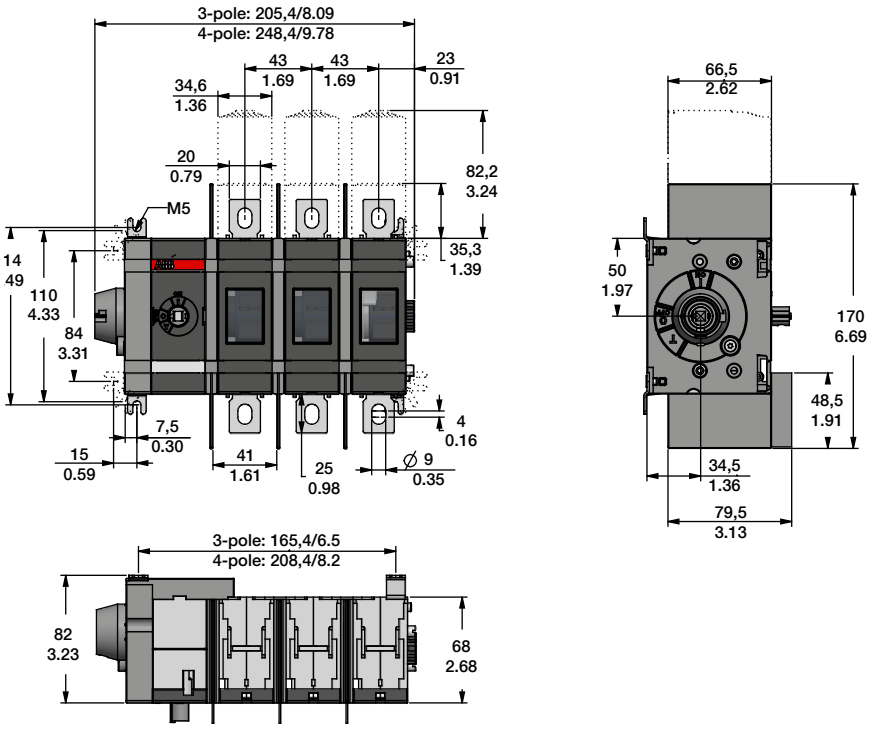


OT1600-2000U

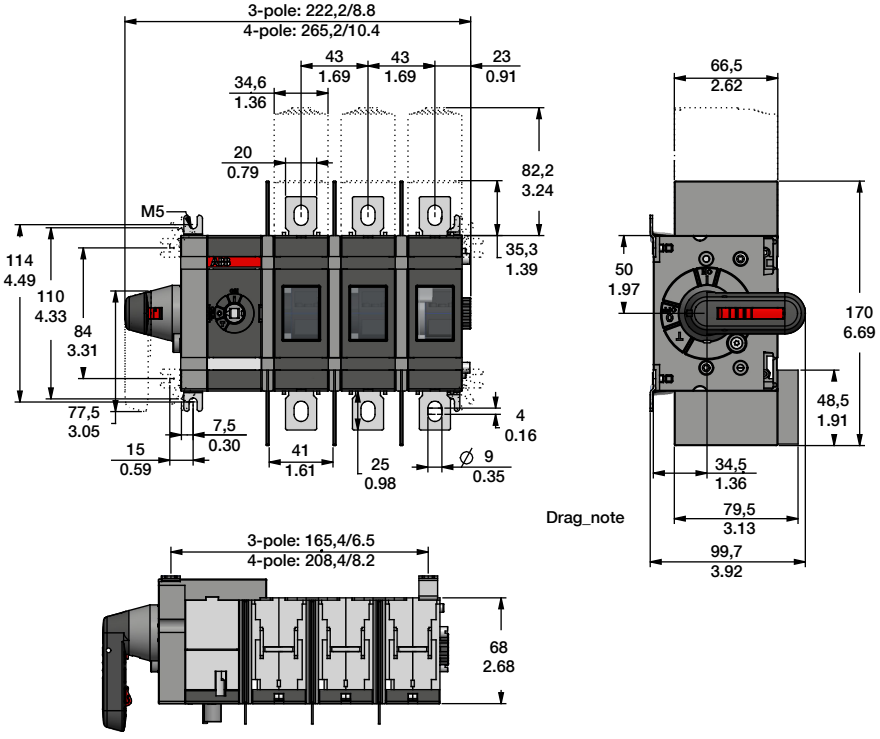
[mm/in]	02	03	04
A	125/4.92	125/4.92	125/4.92
A1	230/9.06	230/9.06	230/9.06
A2	335/13.2	460/18.12	585/23.05
B	365/14.38	490/19.3	615/24.23

Manual disconnect switches OT200...2000
Dimensional drawings

OT200US
Without handle
mm/in



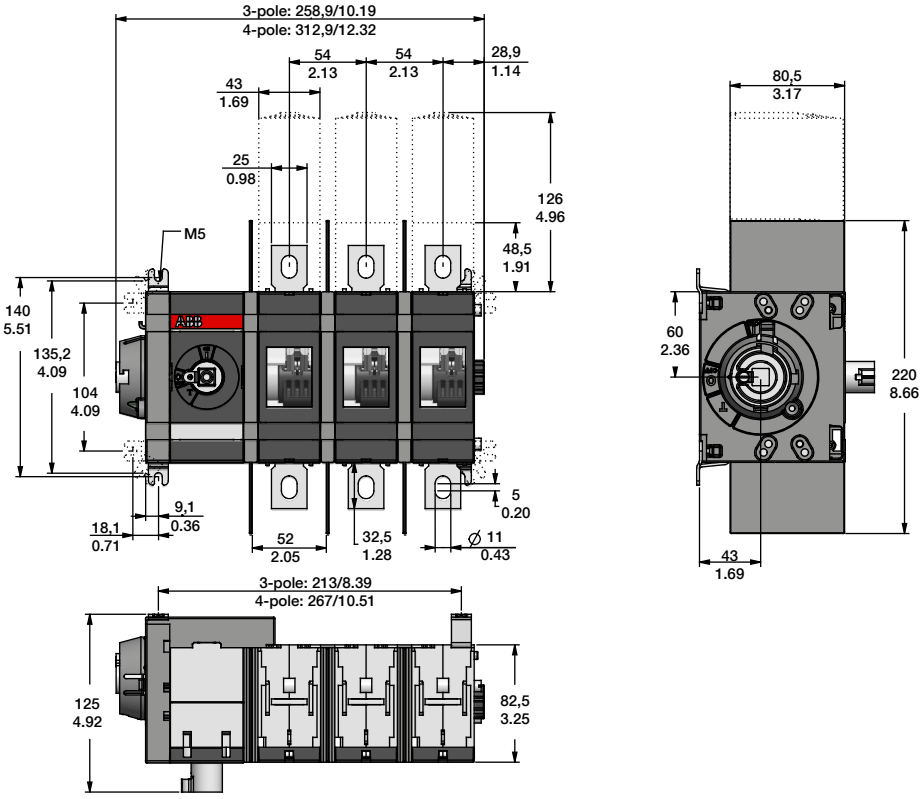
OT200US
With direct mount handle
mm/in



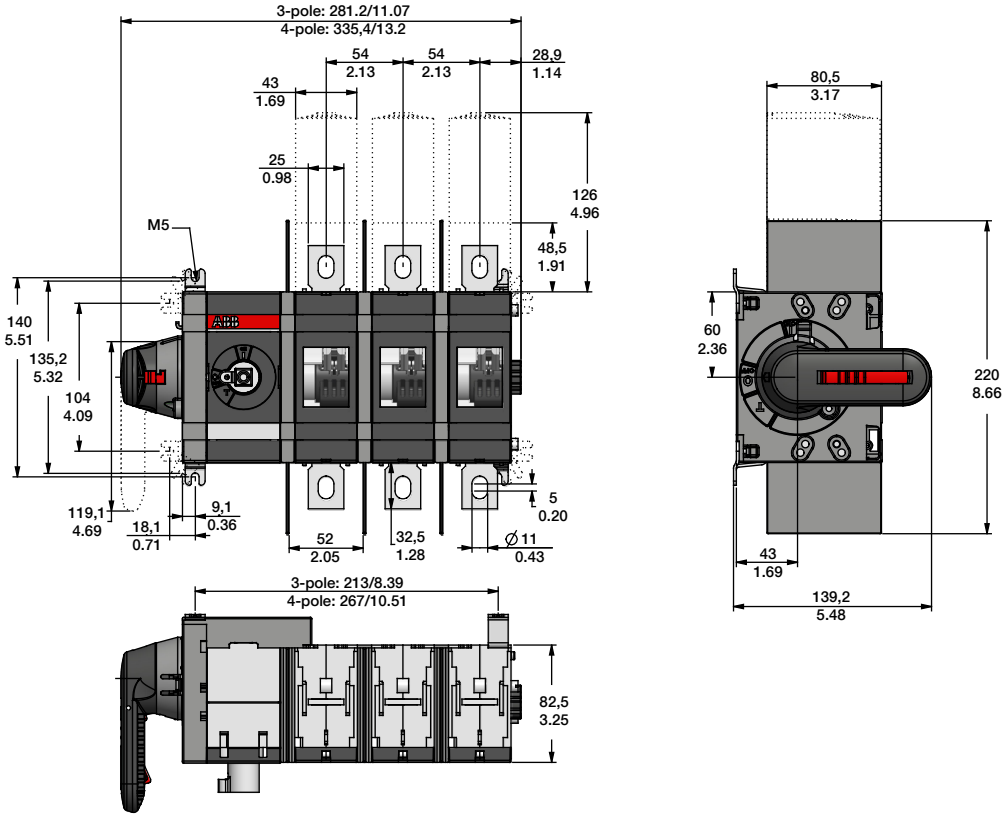
7

Manual disconnect switches OT200...2000
Dimensional drawings

OT400US
Without handle
mm/in

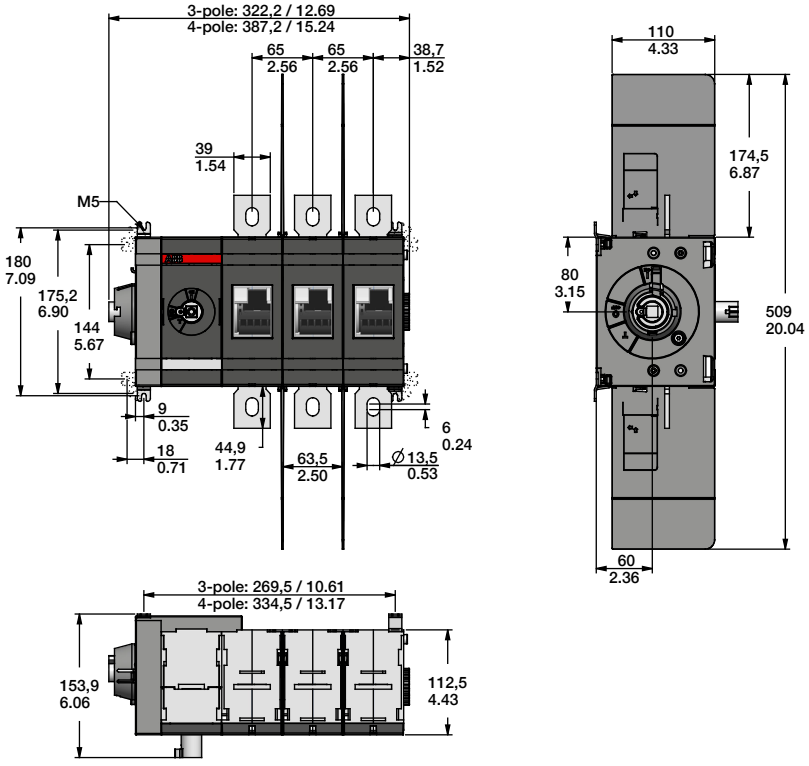


OT400US
With direct mount handle
mm/in

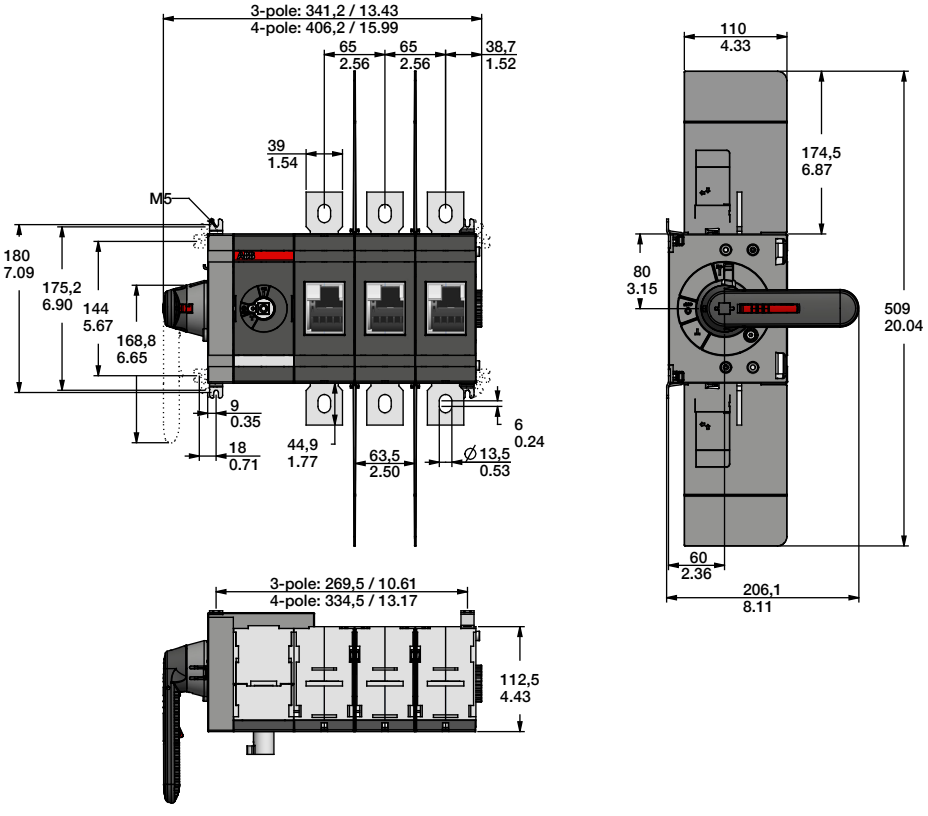


Manual disconnect switches OT200...2000
Dimensional drawings

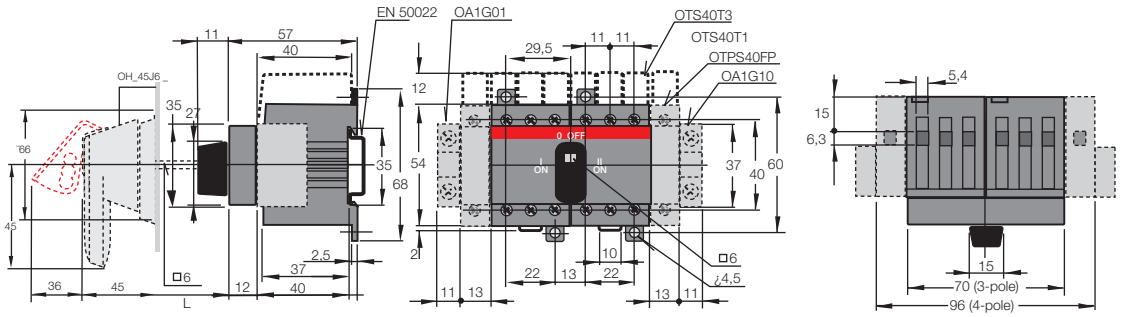
OT600US
Without handle
mm/in



OT600US
With direct mount handle
mm/in



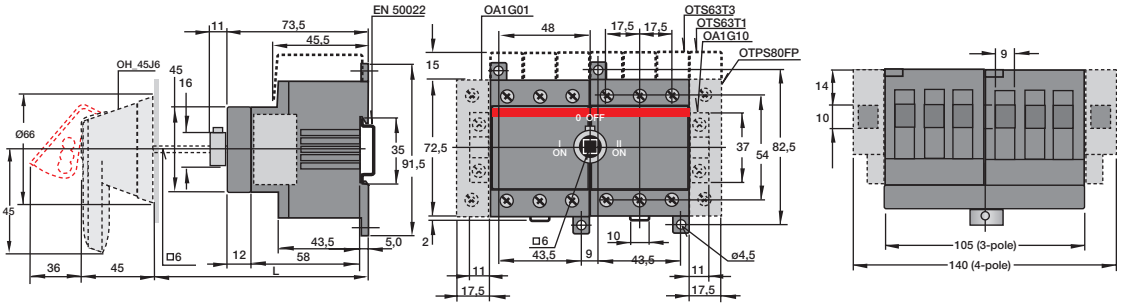
Modular change-over switches
Dimensional drawings



OT16...40F_C

Selector handle OH_S2AJE011	
Shaft OXS6X_	**Installation depth [mm]**
85	103...114
105	123...134
120	138...149
130	148...159

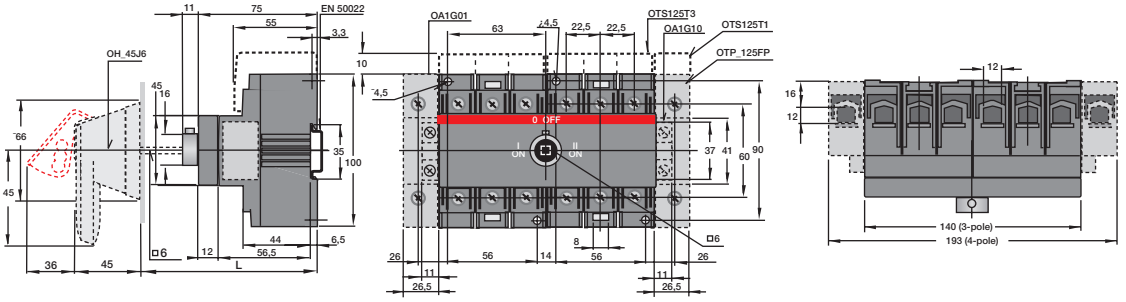
Pistol handle OH_45J6E311	
Shaft OXP6X_	**Installation depth [mm]**
150	164...175
170	184...195
265	279...290
400	414...425



OT63...80F_C

Selector handle OH_S2AJE011	
Shaft OXS6X_	**Installation depth [mm]**
85	121...131
105	141...151
120	156...166
130	166...176

Pistol handle OH_45J6E311	
Shaft OXP6X_	**Installation depth [mm]**
150	183...194
170	203...214
265	298...309
400	433...444



OT100F_C

Selector handle OH_S2AJE011	
Shaft OXS6X_	**Installation depth [mm]**
85	120...130
105	140...150
120	155...165
130	165...175

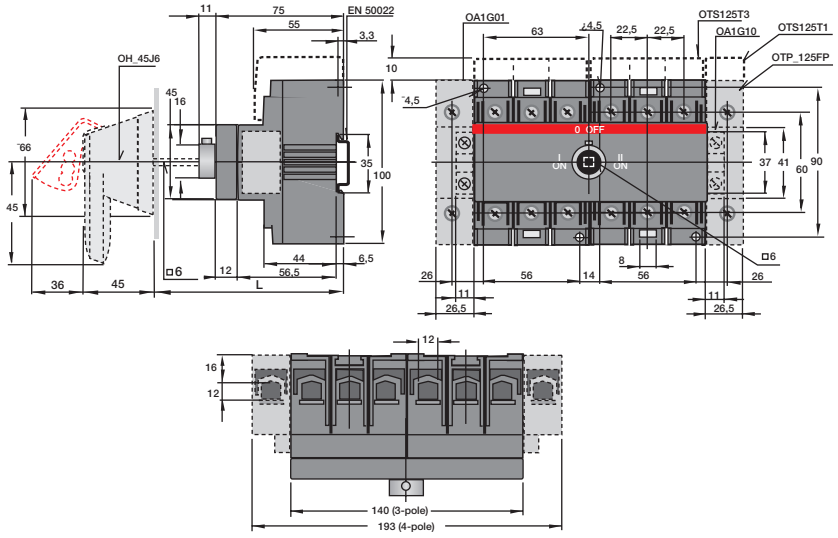
Pistol handle OH_45J6E311	
Shaft OXP6X_	**Installation depth [mm]**
150	192...206
170	212...226
265	307...321
400	442...456

Manual change-over switches

Dimensional drawings for UL/CSA - types

OT30...100_C

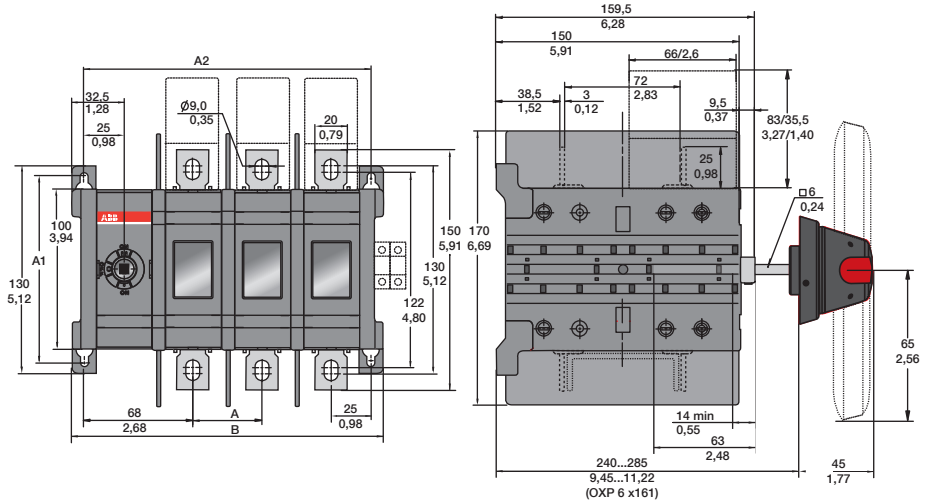
Selector handle OH_S2AJE011	
Shaft OXS6X_	**Installation depth [mm]**
85	120...130
105	140...150
120	155...165
130	165...175
Pistol handle OH_45J6E311	
Shaft OXP6X_	**Installation depth [mm]**
150	192...206
170	212...226
265	307...321
400	442...456



OT200U03/04CP

OT200_C_		
[mm/in]	**U03**	**U04**
A	43/1.69	43/1.69
A1	116/4.57	116/4.57
A2	179/7.05	222/8.74
B	194/7.64	237/9.33

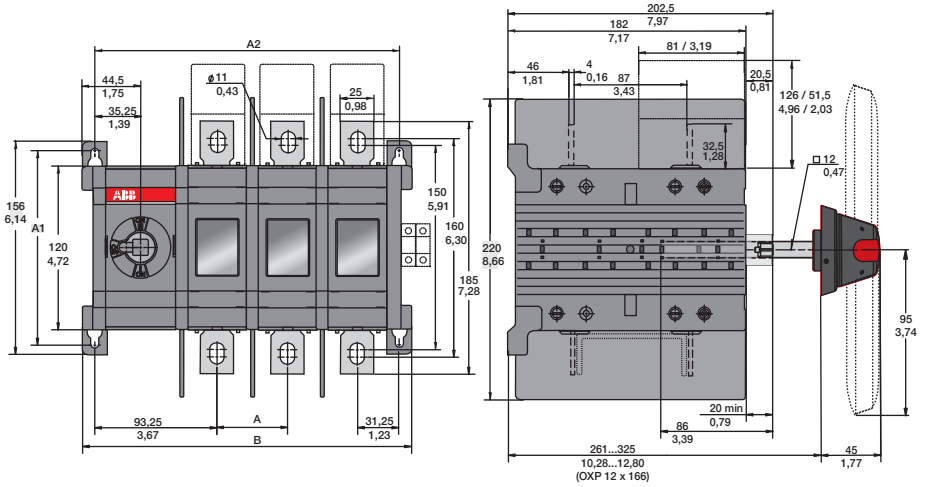
C000002 / OT200U02-04_C_ C/ES



OT400U03/04CP

OT400_C_		
[mm/in]	**U03**	**U04**
A	54/2.13	54/2.13
A1	142/5.59	142/5.59
A2	232.5/9.15	286.5/11.28
B	251/9.88	305/12.01

C000009 / OT400U02-04_C_ C/ES



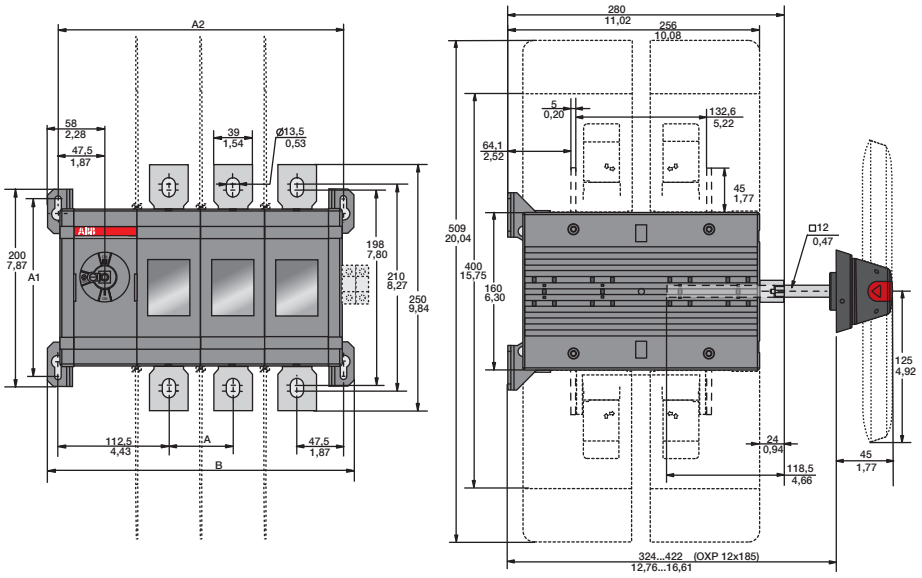
Manual change-over switches

Dimensional drawings for UL/CSA - types

OT600U03/04CP

OT600_C_		
[mm/in]	**U03**	**U04**
A	65/2.56	65/2.56
A1	180/7.09	180/7.09
A2	290/11.42	355/13.98
B	311/12.24	376/14.80

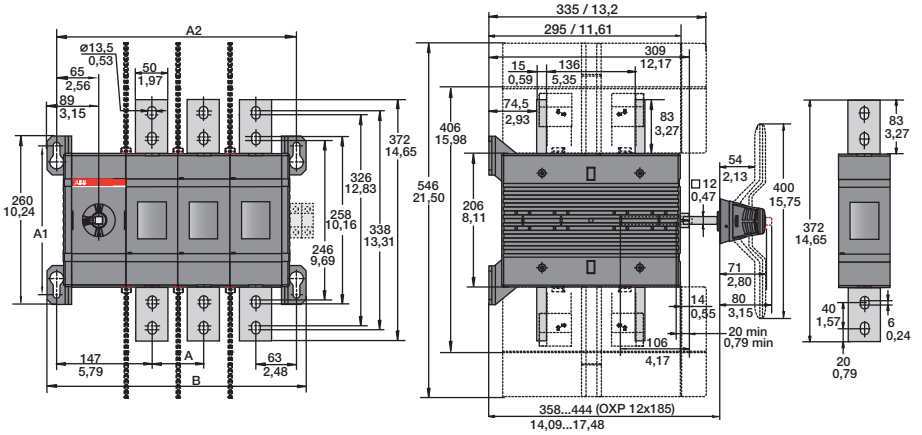
M00087 / OT600U02-04_C_ C/ES



OT800U03/04CP

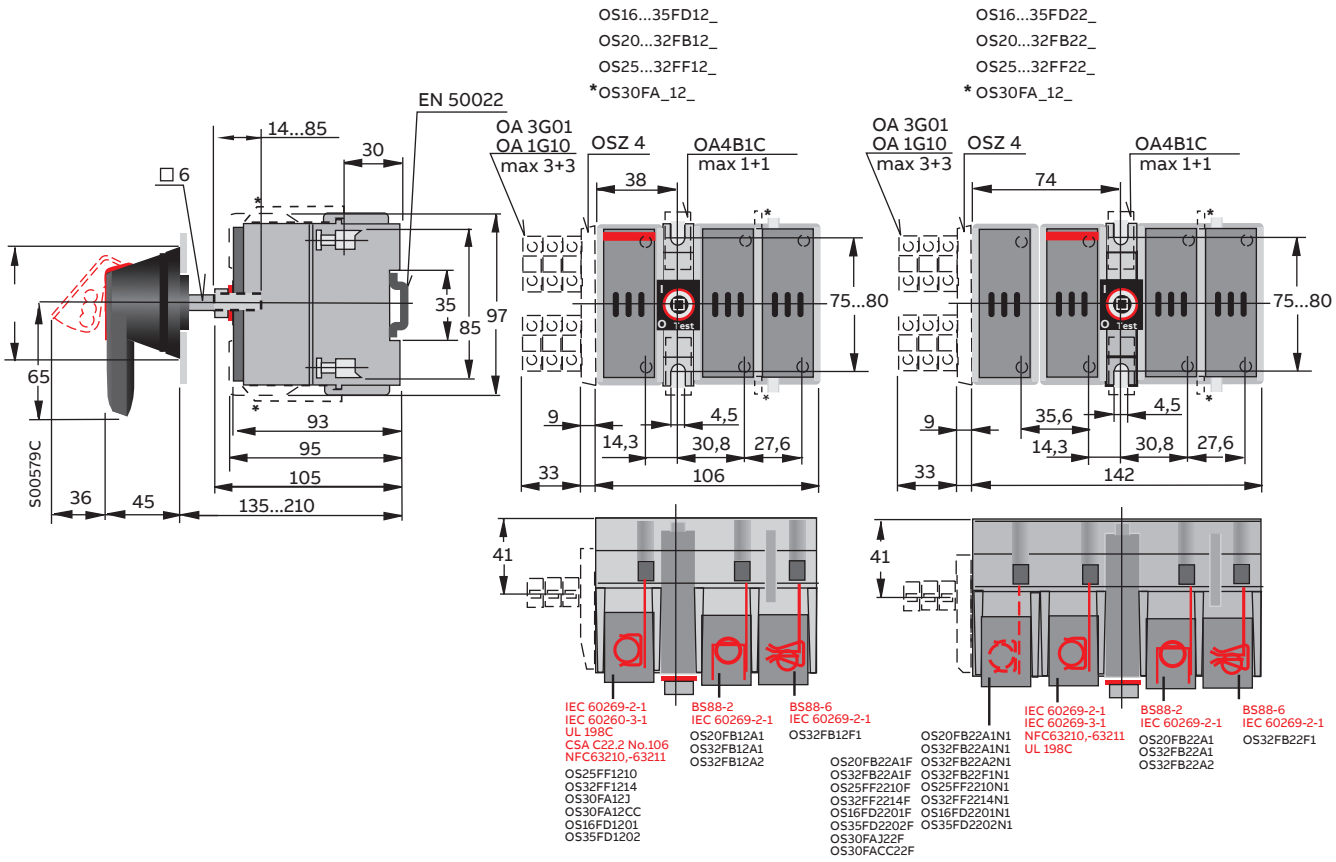
OT800_C_		
[mm/in]	**U03**	**U04**
A	80/3.15	80/3.15
A1	230/9.06	230/9.06
A2	370/14.56	450/17.72
B	400/15.75	480/18.90

M00156 / OT800-1200U_C-1 C/ES



Front operated fusible disconnect switches, IEC and UL/CSA
Dimensional drawings

OS30FA_

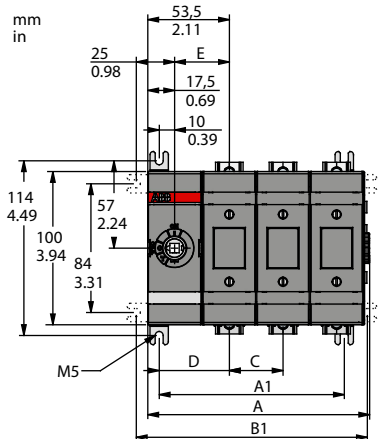


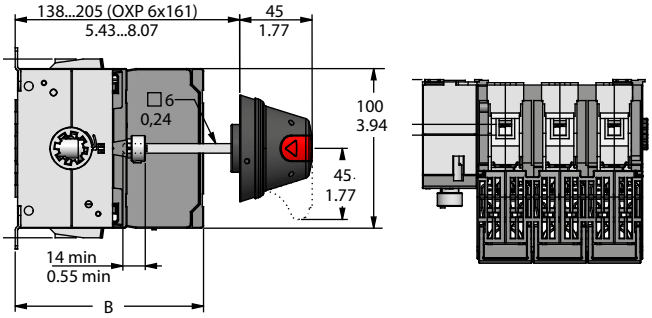
Front operated fusible disconnect switches, UL/CSA
Dimensional drawings

OS60GJ_
Mechanism at the end of the fusible disconnect switch

OS60G_

[mm/in]	J01	J02	J03	J04
A	75/2.95	110/4.33	145/5.71	180/7.09
B	118/4.65	118/4.65	118/4.65	118/4.65
C		35/1.38	35/1.38	35/1.38
D	46/1.81	46/1.81	46/1.81	46/1.81
E	36/1.42	36/1.42	36/1.42	36/1.42
A1	51/2.01	86/3.39	121/4.77	156/6.14
B1	81/3.19	116/4.57	151/5.95	186/7.33

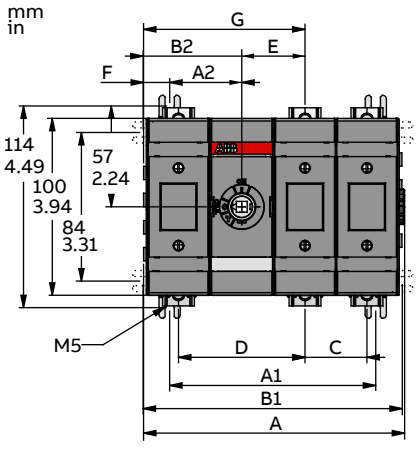


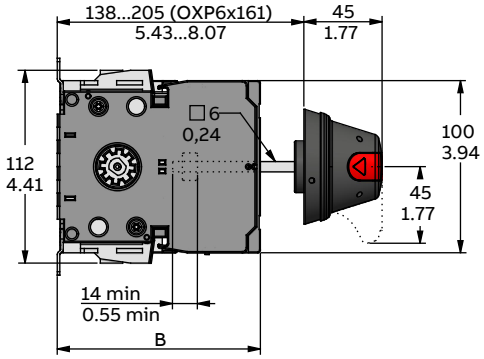


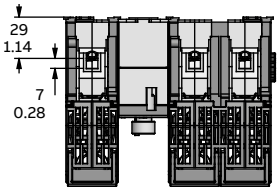
OS60GJ_
Mechanism between the poles

OS60G_

[mm/in]	J11	J12	J13	J22
A	112.5/4.43	147.5/5.81	182.5/7.19	182.6/7.19
B	118/4.65	118/4.65	118/4.65	118/4.65
C		35/1.38	35/1.38	35/1.38
D	71.5/2.82	71.5/2.82	71.5/2.82	71.5/2.82
E	36/1.42	36/1.42	36/1.42	36/1.42
F	55.5/2.19	55.5/2.19	55.5/2.19	90.5/3.56
G	91.5/3.60	91.5/3.60	91.5/3.60	91.5/3.60
A1	81.5/3.21	116.5/4.59	151.5/5.97	151.5/5.97
A2	41/1.61	41/1.61	41/1.61	76/2.99
B1	111.54/4.39	146.5/5.77	181.5/7.15	181.5/7.15
B2	56/2.20	56/2.20	56/2.20	91/3.58



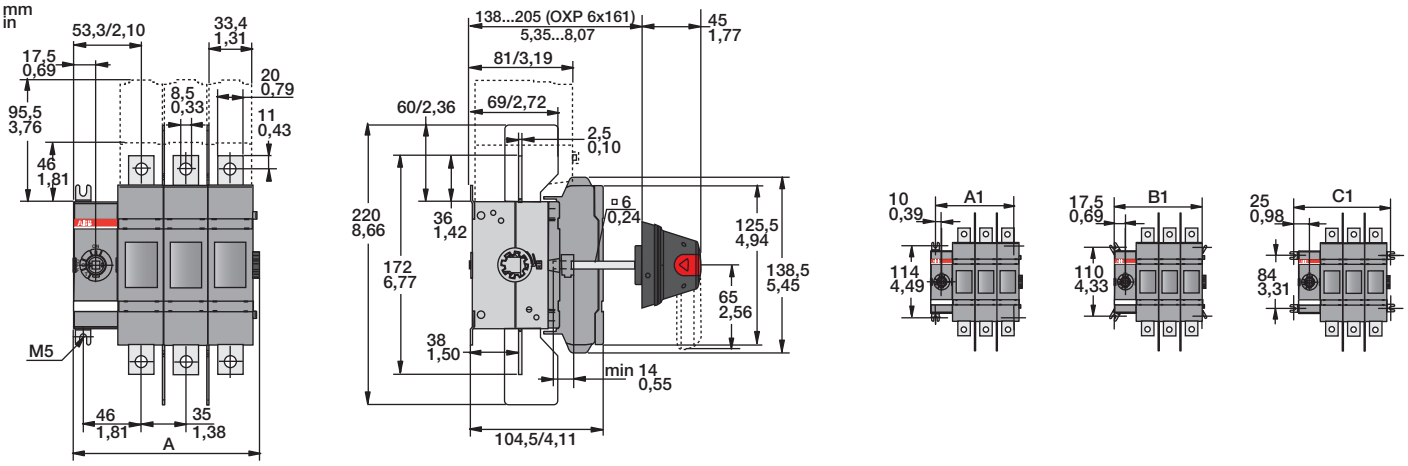




Front operated fusible disconnect switches, UL/CSA
Dimensional drawings

OS100GJ_

Mechanism at the end of the fusible disconnect switch

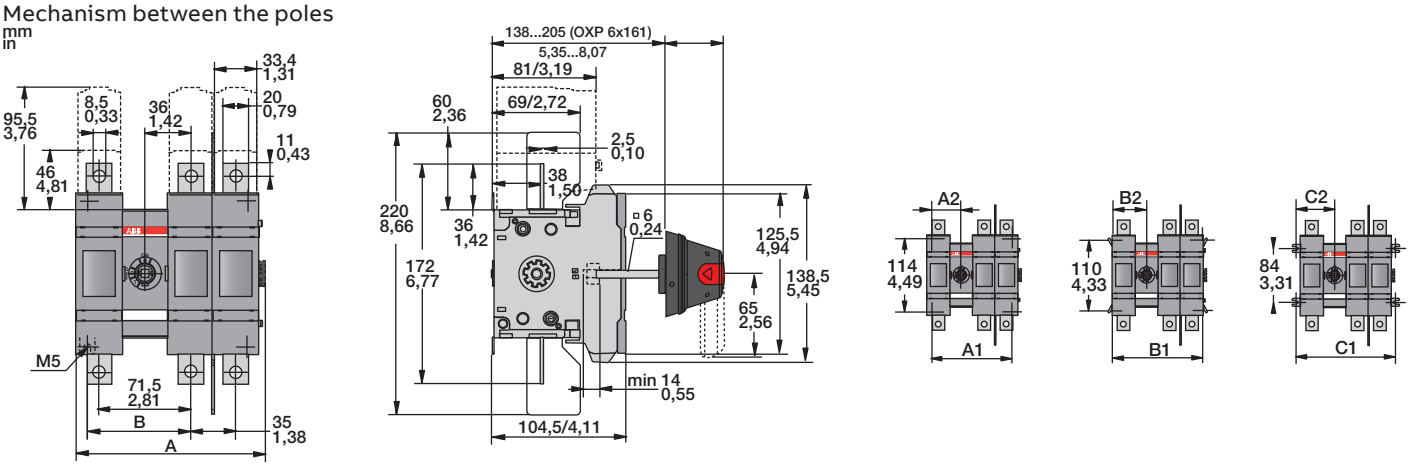


OS100G

[mm/in]	J01	J02	J03	J04
A	76,5/3,01	111,5/4,39	146,5/5,77	181,5/7,15
A1	55/2,17	90/3,54	125/4,92	160/6,30
B1	70/2,76	105/4,13	140/5,51	175/6,89
C1	85/3,35	120/4,72	155/6,10	190/7,48

M00291/OS100GJ01-04 B

Mechanism between the poles



OS100G

[mm/in]	J11	J12	J13	J22
A	113/4,45	148/5,83	183/7,20	183/7,20
B	81/3,19	81/3,19	81/3,19	116/4,57
A1	90/3,54	125/4,92	160/6,30	160/6,30
A2	45/1,77	45/1,77	45/1,77	80/3,15
B1	105/4,13	140/5,51	175/6,89	175/6,89
B2	52,5/2,07	52,5/2,07	52,5/2,07	160/3,44
C1	120/4,72	155/6,10	190/7,48	190/7,48
C2	60/2,36	60/2,36	60/2,36	95/3,74

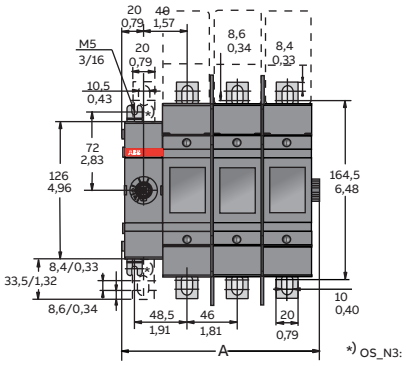
M00292/OS100GJ11-22 B

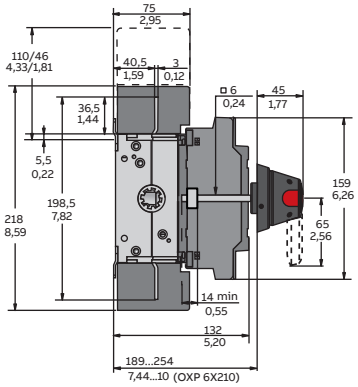
Front operated fusible disconnect switches, UL/CSA
Dimensional drawings

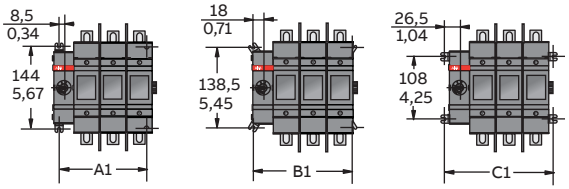
OS200J_
Mechanism at the end of the fusible disconnect switch

OS200_

[mm/in]	J01	J02	J03	J04
A	89.5/3.52	135.5/5.34	181.5/7.15	227.5/8.96
A1	60.5/2.38	106.5/4.19	152.5/6.00	198.5/7.82
B1	79.5/3.13	125.5/4.94	171.5/6.75	217.5/8.56
C1	96.5/3.80	142.5/5.61	188.5/7.42	234.5/9.23



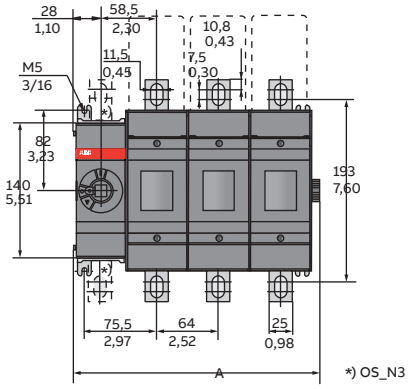


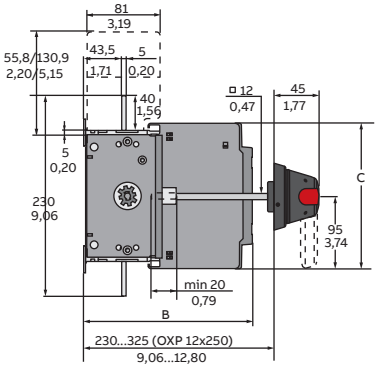


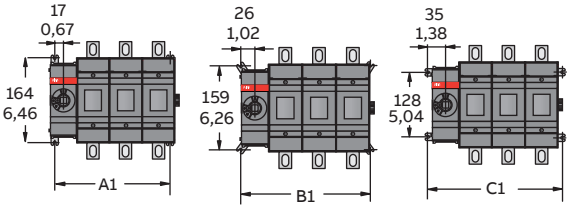
OS400J_
Mechanism at the end of the fusible disconnect switch

OS400

[mm/in]	J01	J02	J03	J04
A	127/5.00	191/7.52	255/10.04	319/12.56
B	176/6.93	176/6.93	176/6.93	176/6.93
C	194/7.64	194/7.64	194/7.64	194/7.64





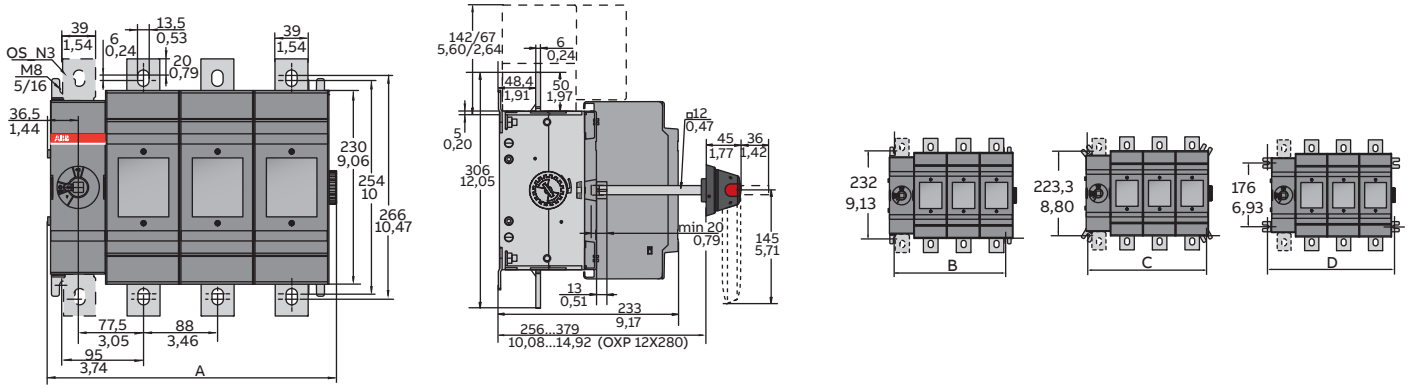


Front operated fusible disconnect switches, UL/CSA
Dimensional drawings

OS600J and OS800L
Mechanism at the end of the fusible disconnect switch

OS600-800

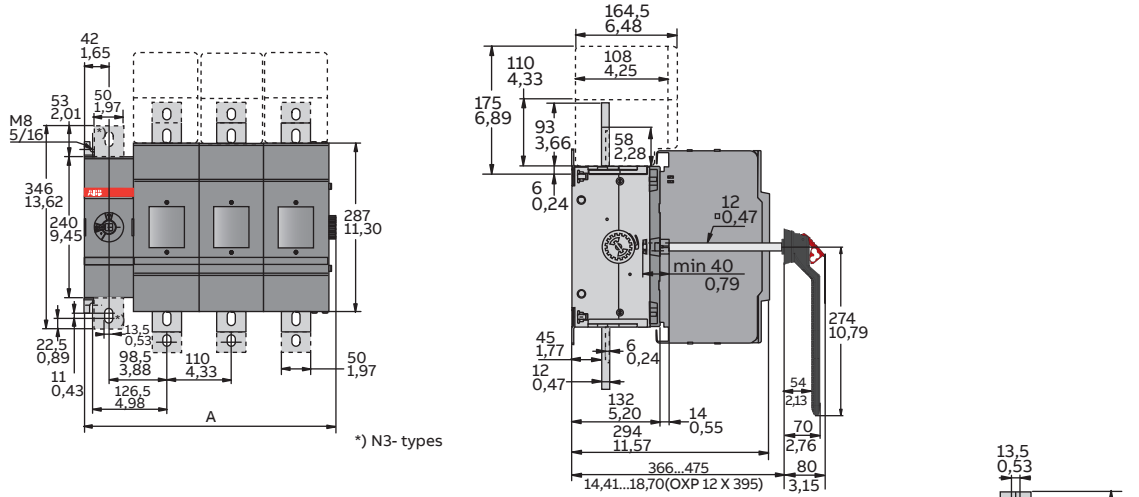
[mm/in]	J/L01	J/L02	J/L03	J/L04
A	167/6.57	255/10.04	343/13.50	431/16.97
B	120/4.72	208/8.19	296/11.65	384/15.12
C	150/5.91	238/9.37	326/12.83	414/16.30
D	176/6.93	264/10.39	352/13.86	440/17.32

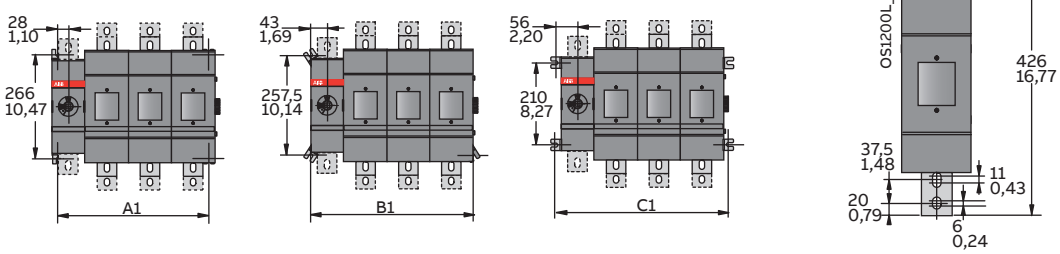


OS1200L

OS1200

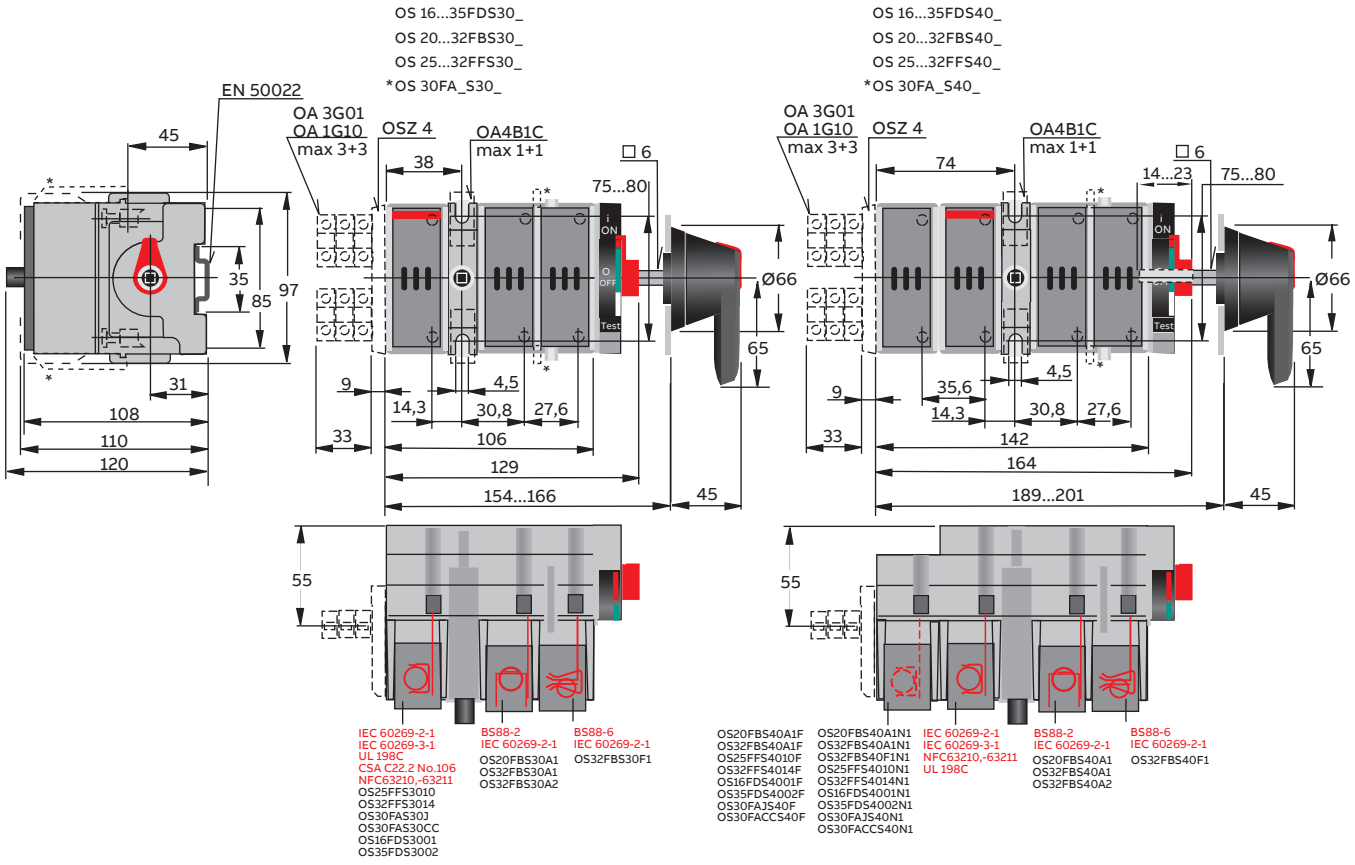
[mm/in]	L01	L02	L03	L04
A	209/8.23	319/12.56	429/16.89	539/21.22
A1	166/6.54	276/10.87	386/15.20	496/19.53
B1	196/7.72	306/12.05	416/16.38	526/20.71
C1	222/8.74	332/13.07	442/17.40	552/21.73





Side operated fusible disconnect switches, IEC and UL/CSA
Dimensional drawings

OS 30FA_S_

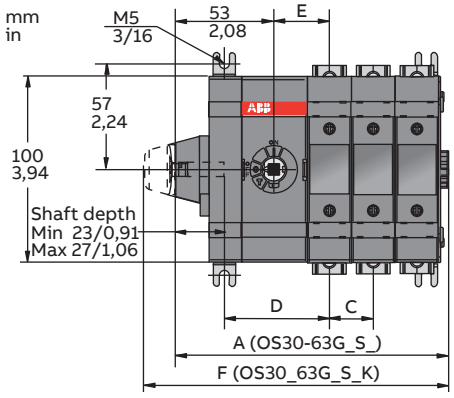


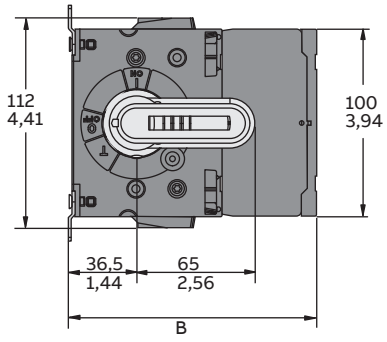
Side operated fusible disconnect switches, IEC and UL/CSA
Dimensional drawings

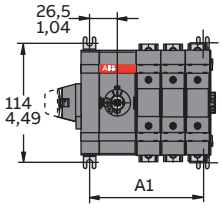
OS60G_S_

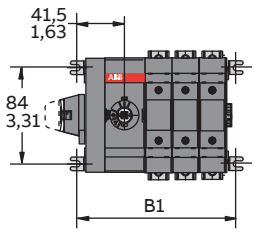
OS60G

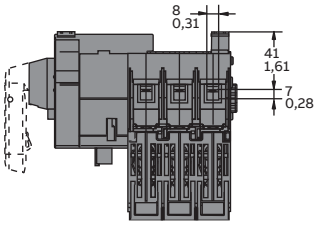
[mm/in]	JS01	JS02	JS03	JS04
A	109.5/4.31	144.5/5.69	179.5/7.07	214.5/8.44
B	130/5.12	130/5.12	130/5.12	130/5.12
C		35/1.38	35/1.38	35/1.38
D	62/2.44	62/2.44	62/2.44	62/2.44
E	36/1.41	36/1.41	36/1.41	36/1.41
F	126.5/4.98	161.5/6.36	196.5/7.74	231.5/9.11
A1	67.5/2.66	102.5/4.04	137.5/5.41	172.5/6.79
B1	37.5/1.48	72.5/2.85	107.5/4.23	142.5/5.61







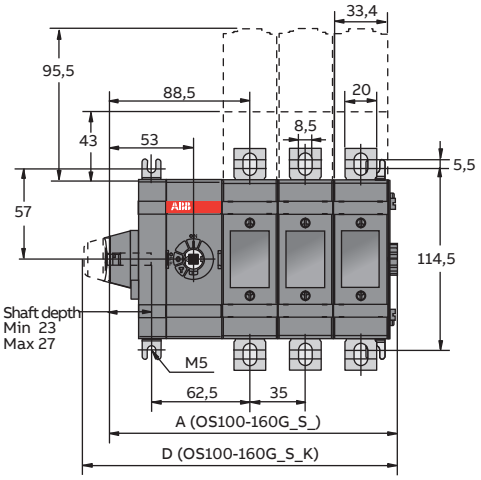


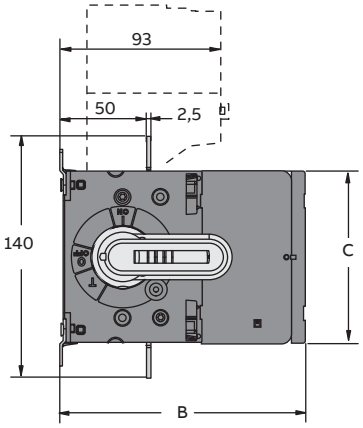


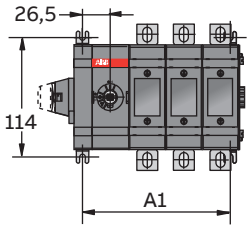
Side operated fusible disconnect switches, IEC and UL/CSA
Dimensional drawings

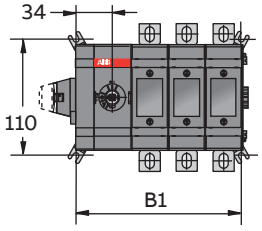
OS100G_S_

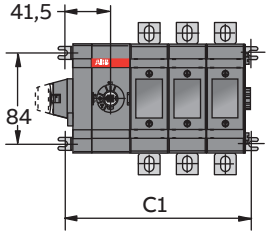
[mm/in]	JS01	JS02	JS03	JS04
A	111.5/4.39	146.5/5.77	181.5/7.15	216.5/8.52
B	128.5/5.06	163.5/6.44	198.5/7.91	233.5/9.19
A1	71.5/2.81	106.5/4.19	141.5/5.57	176.5/6.95
B1	86.5/3.41	121.5/4.78	156.5/6.16	191.5/7.54
C1	101.5/4.00	136.5/5.37	171.5/6.75	206.5/8.13









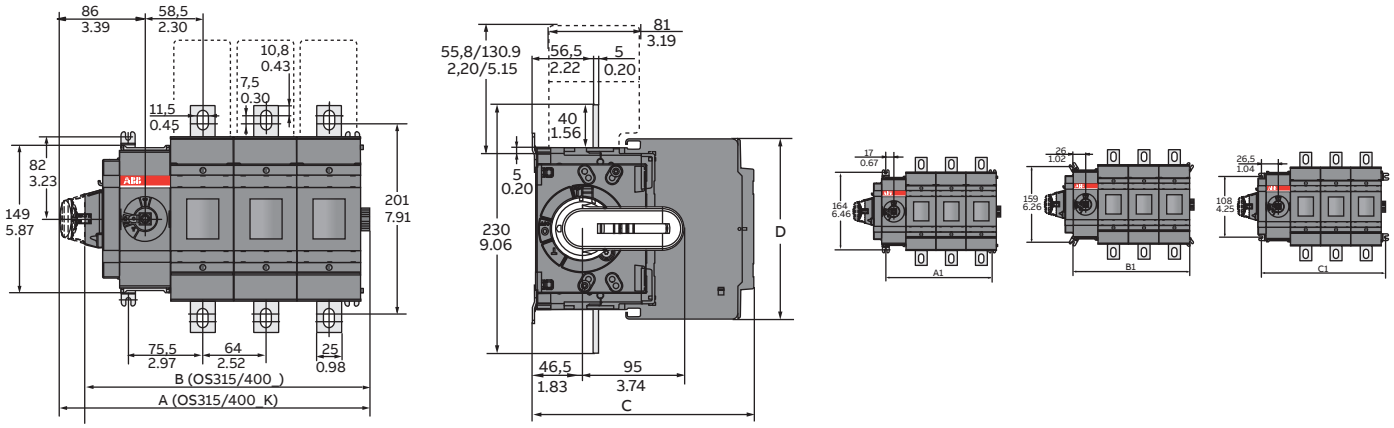


Side operated fusible disconnect switches, IEC and UL/CSA
Dimensional drawings

OS400_S_

OS400, OS400_K

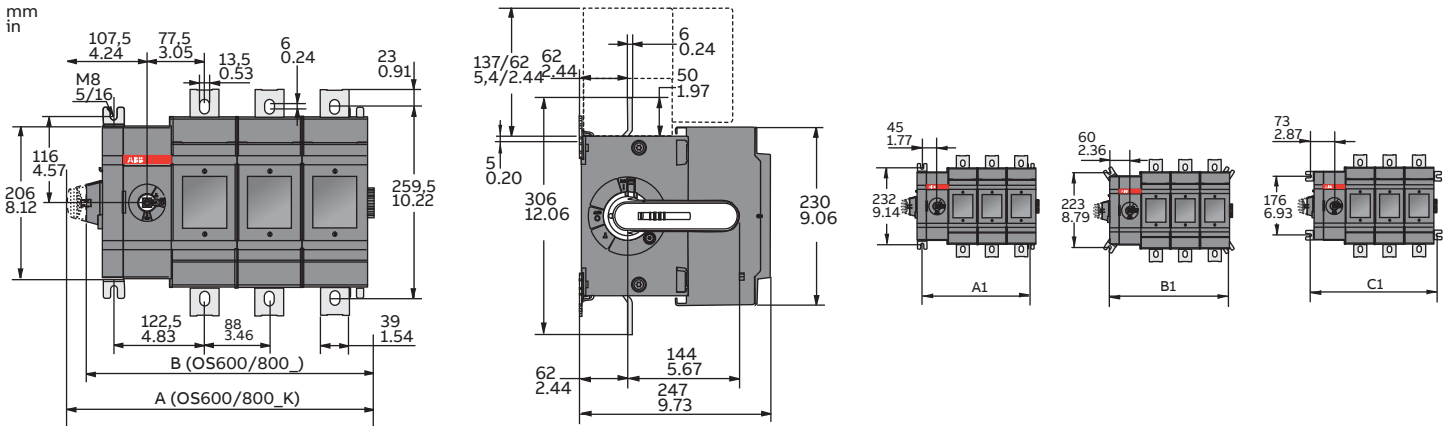
[mm/in]	JS01	JS02	JS03	JS04
A	185.0/7.28	249.0/9.80	313.0/12.32	377.0/14.84
B	160.0/6.30	224.0/8.82	288.0/11.34	352.0/13.86
C	189.0/7.44	189.0/7.44	189.0/7.44	189.0/7.44
D	194.0/7.64	194.0/7.64	194.0/7.64	194.0/7.64
A1	98.5/3.88	162.5/6.40	226.5/8.92	290.5/11.44
B1	116.5/4.59	180.5/7.11	244.5/9.63	308.5/12.15
C1	134.5/5.30	198.5/7.81	262.5/10.33	326.5/12.85



OS600_OS800_S_

OS600, OS600_K

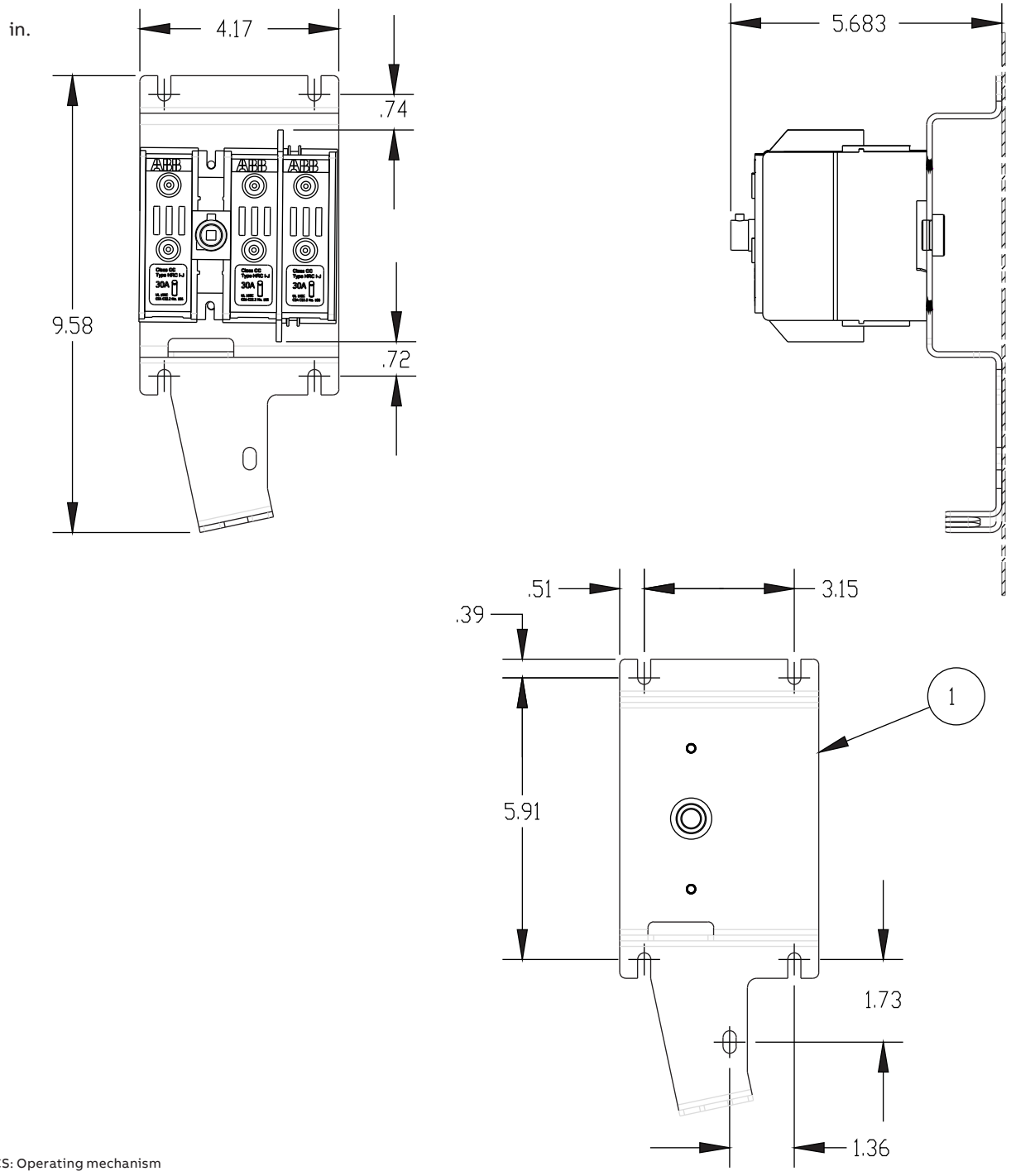
[mm/in]	JS01	JS02	JS03	JS04
A	238.0/9.38	326.0/12.84	414.0/16.31	502.0/19.78
B	213.0/8.39	301.0/11.86	389.0/15.32	477.0/18.79
A1	147.5/5.81	235.5/9.28	323.5/12.75	411.5/16.21
B1	177.5/6.99	265.5/10.46	353.5/13.93	441.5/17.39
C1	203.5/8.02	291.5/11.48	379.5/14.95	467.5/18.42



Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS30FACC12



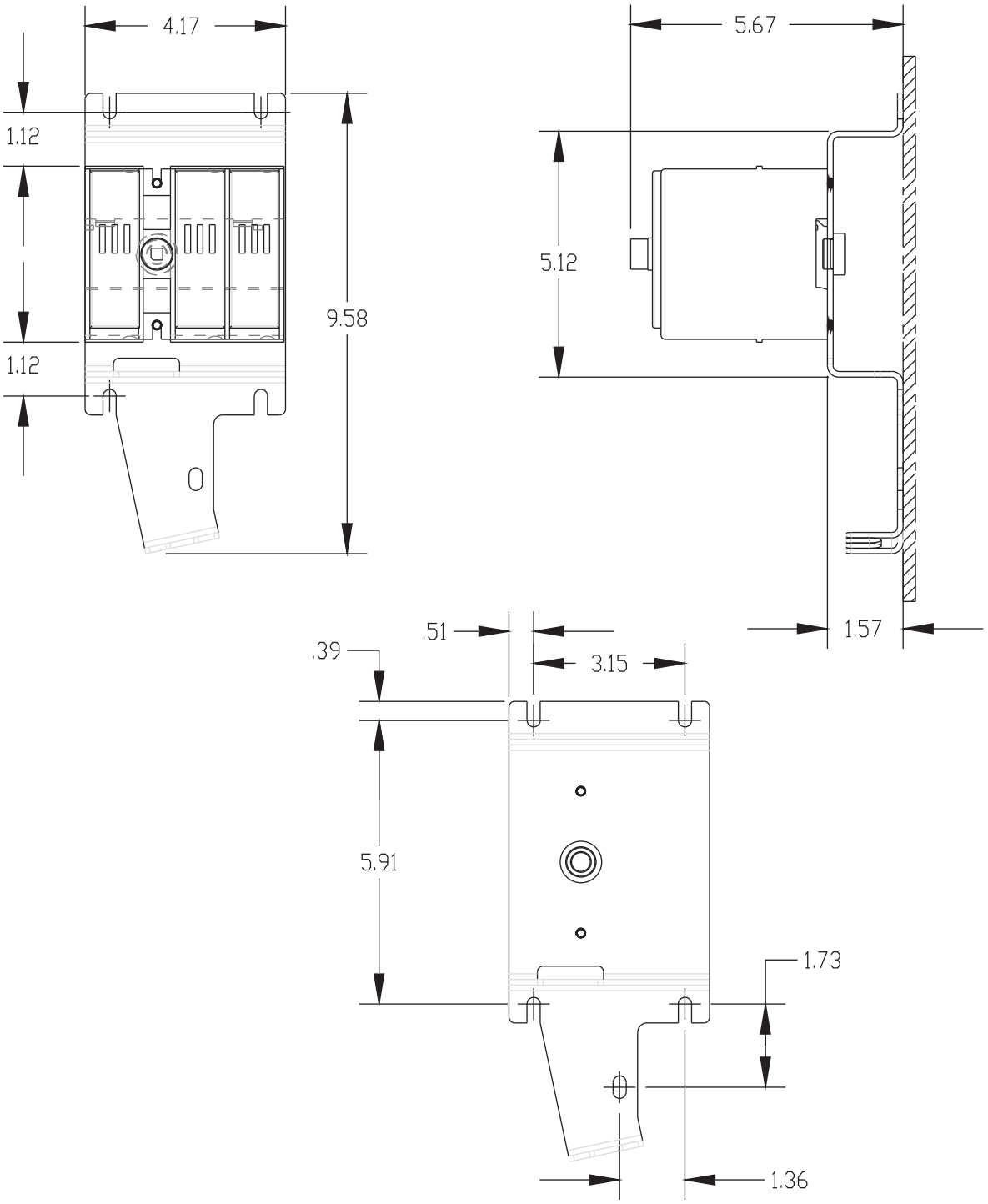
① MKCS: Operating mechanism

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS30FAJ12

in.

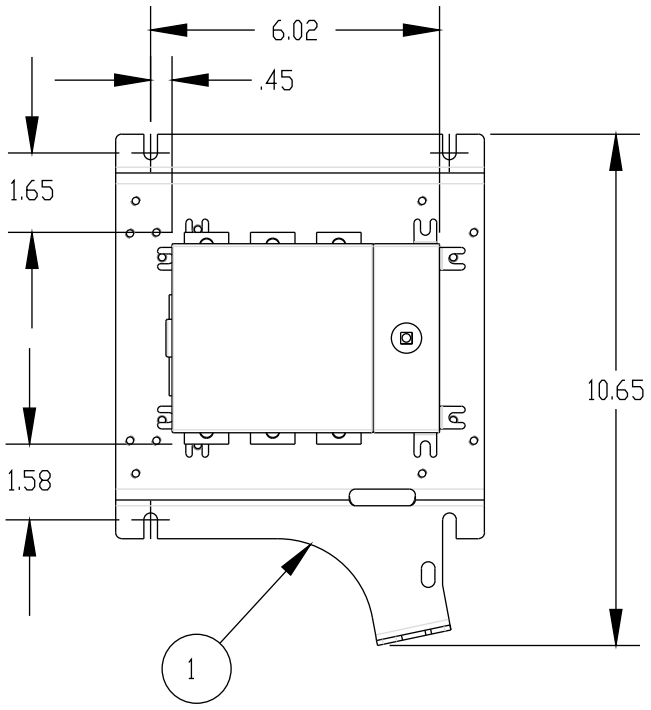


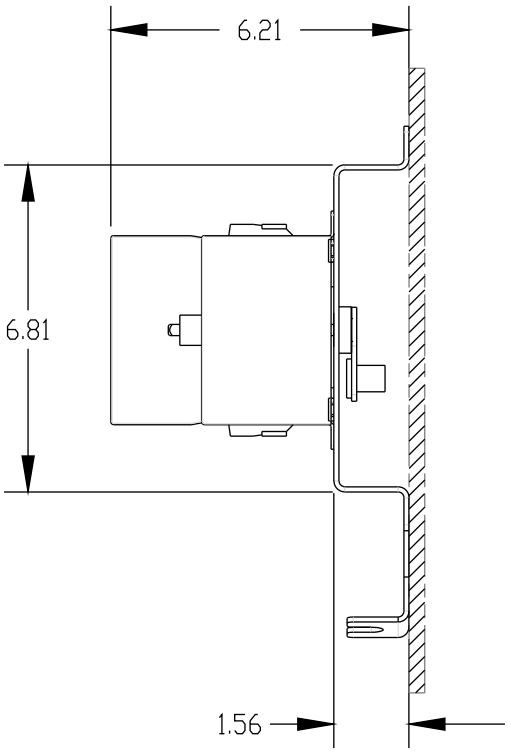
Flange operated disconnect switch cable operated fusible

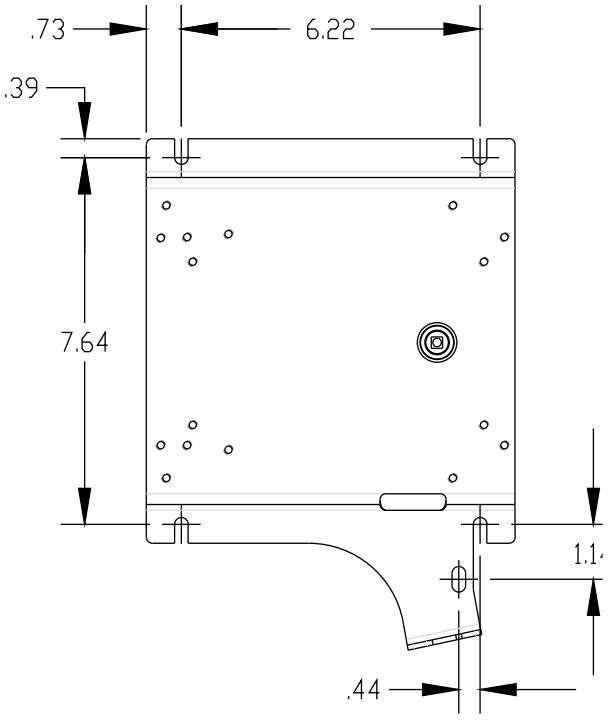
Dimensional drawings

OS60GJ30

in.







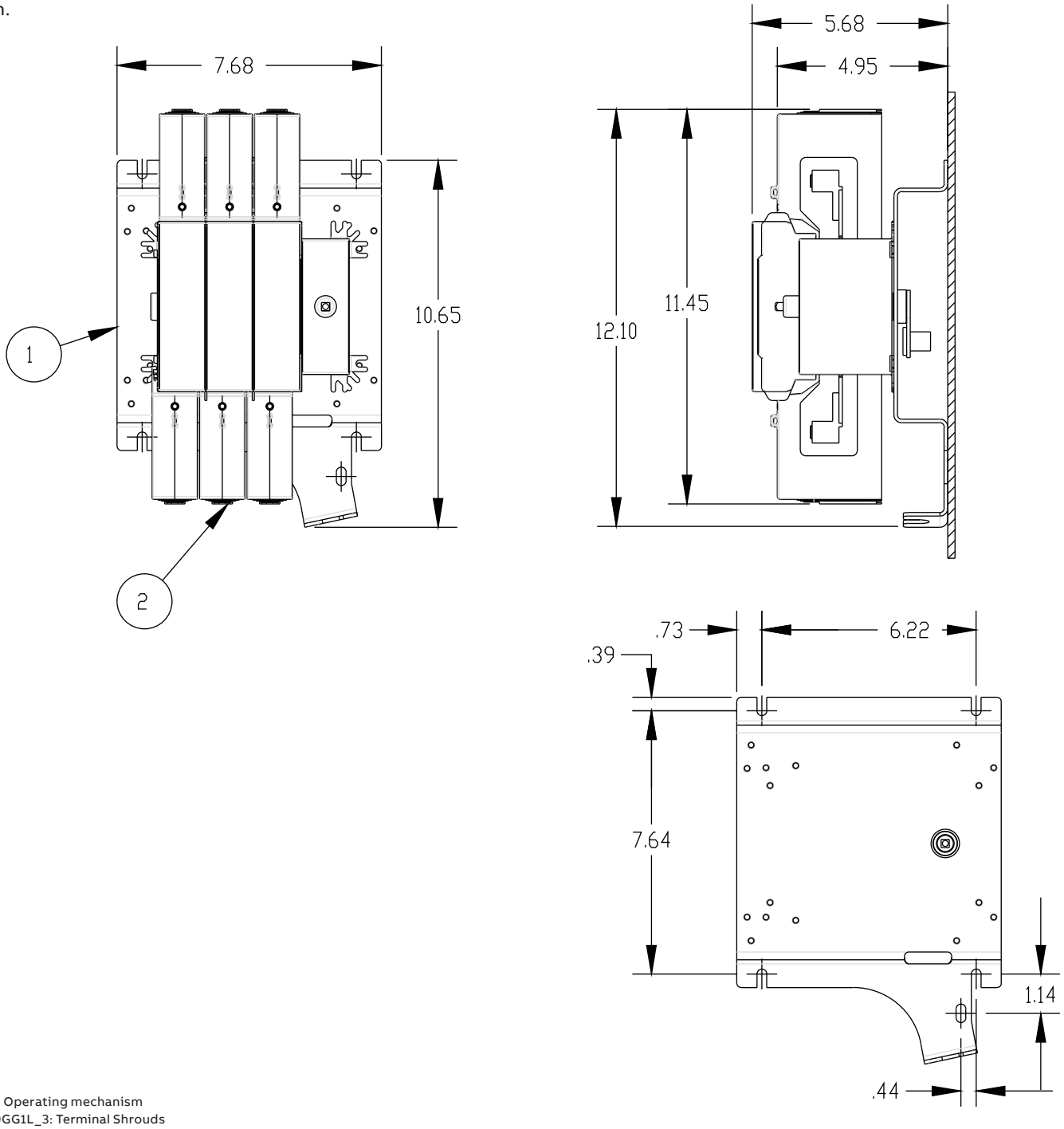
① MKCS2: Operating mechanism

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS100GJ30

in.

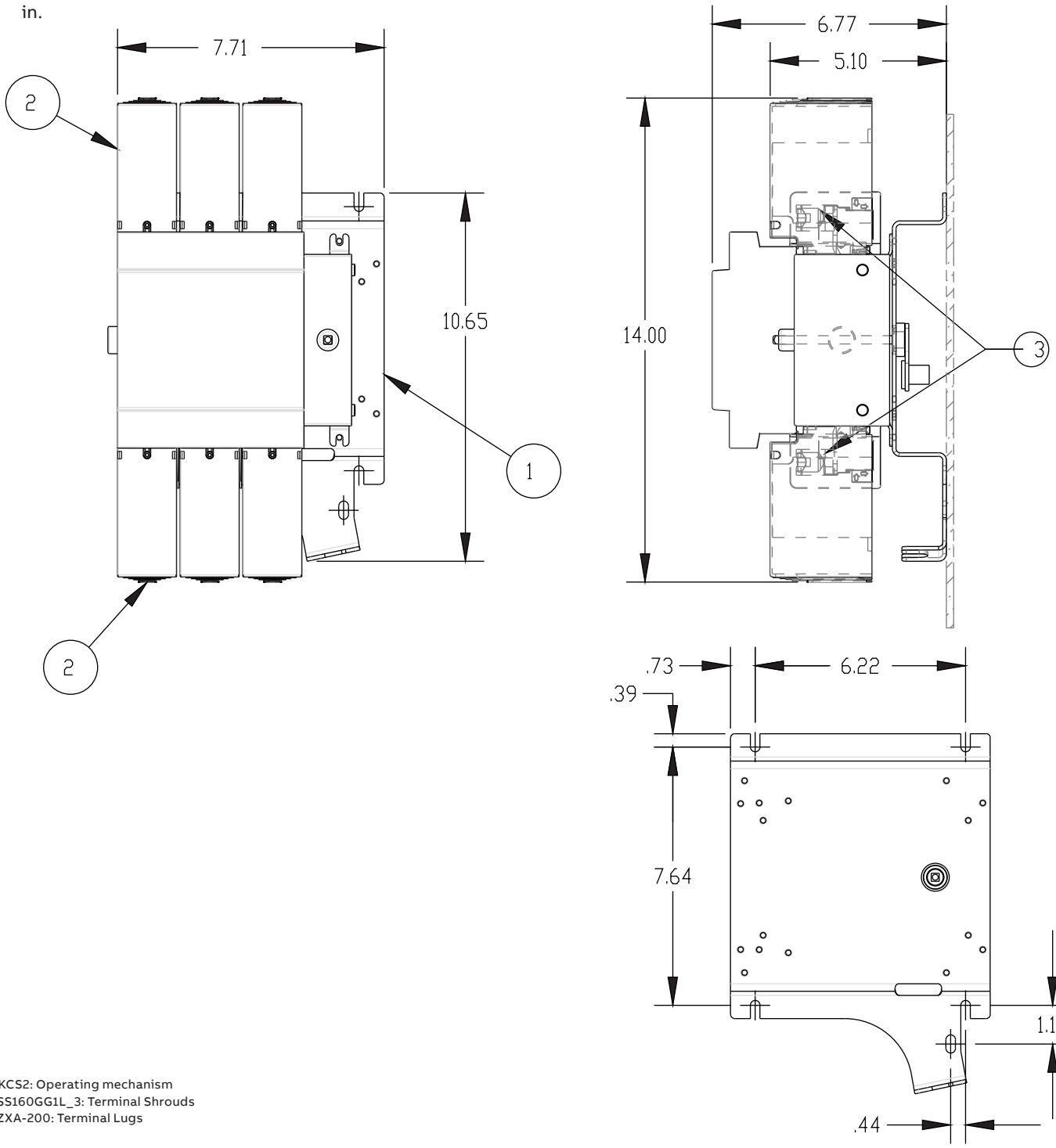


① MKCS2: Operating mechanism
② OSS160GG1L_3: Terminal Shrouds

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS200J30



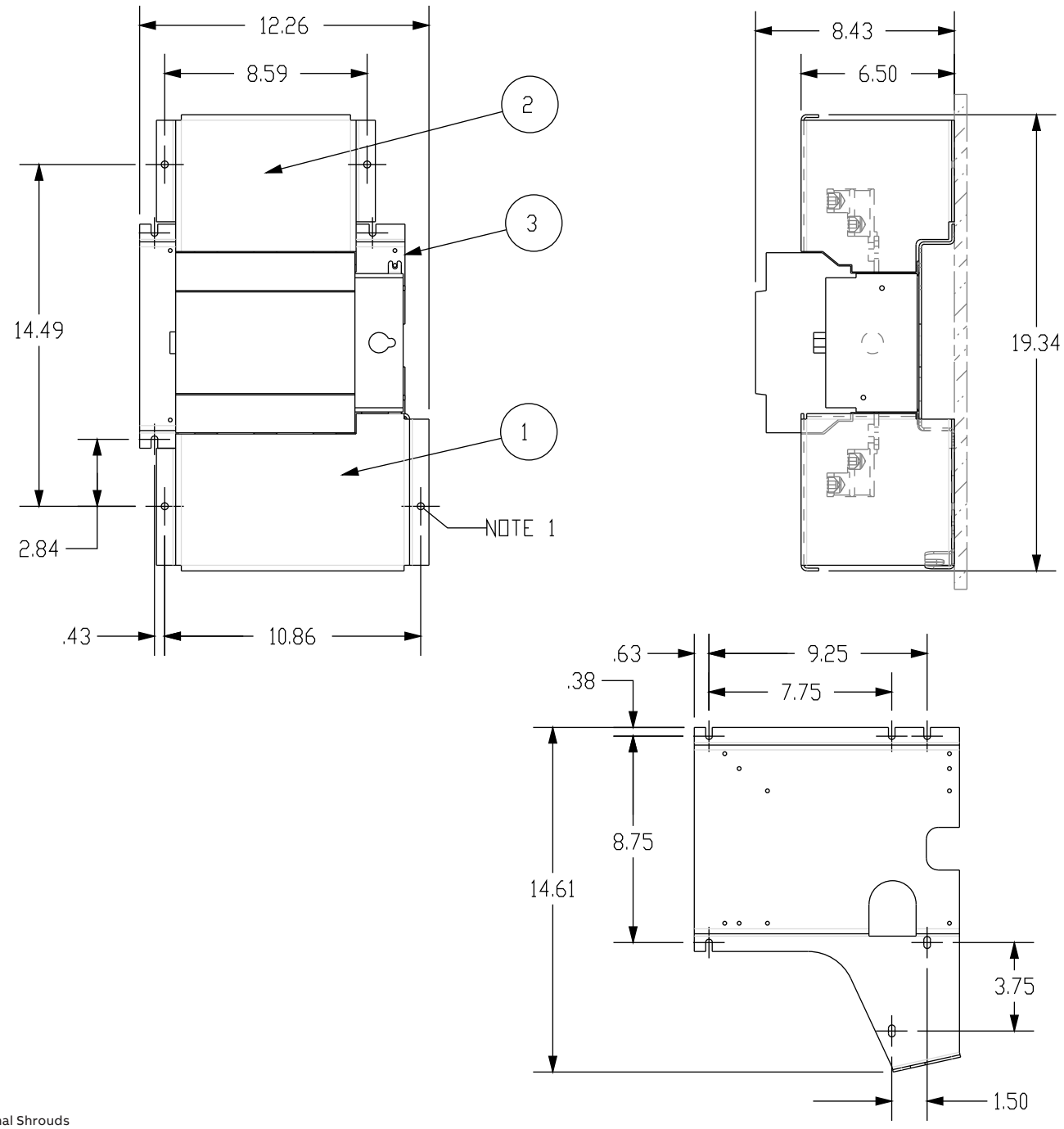
① MKCS2: Operating mechanism
② OSS160GG1L_3: Terminal Shrouds
③ OZXA-200: Terminal Lugs

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS400J30-FC

in.

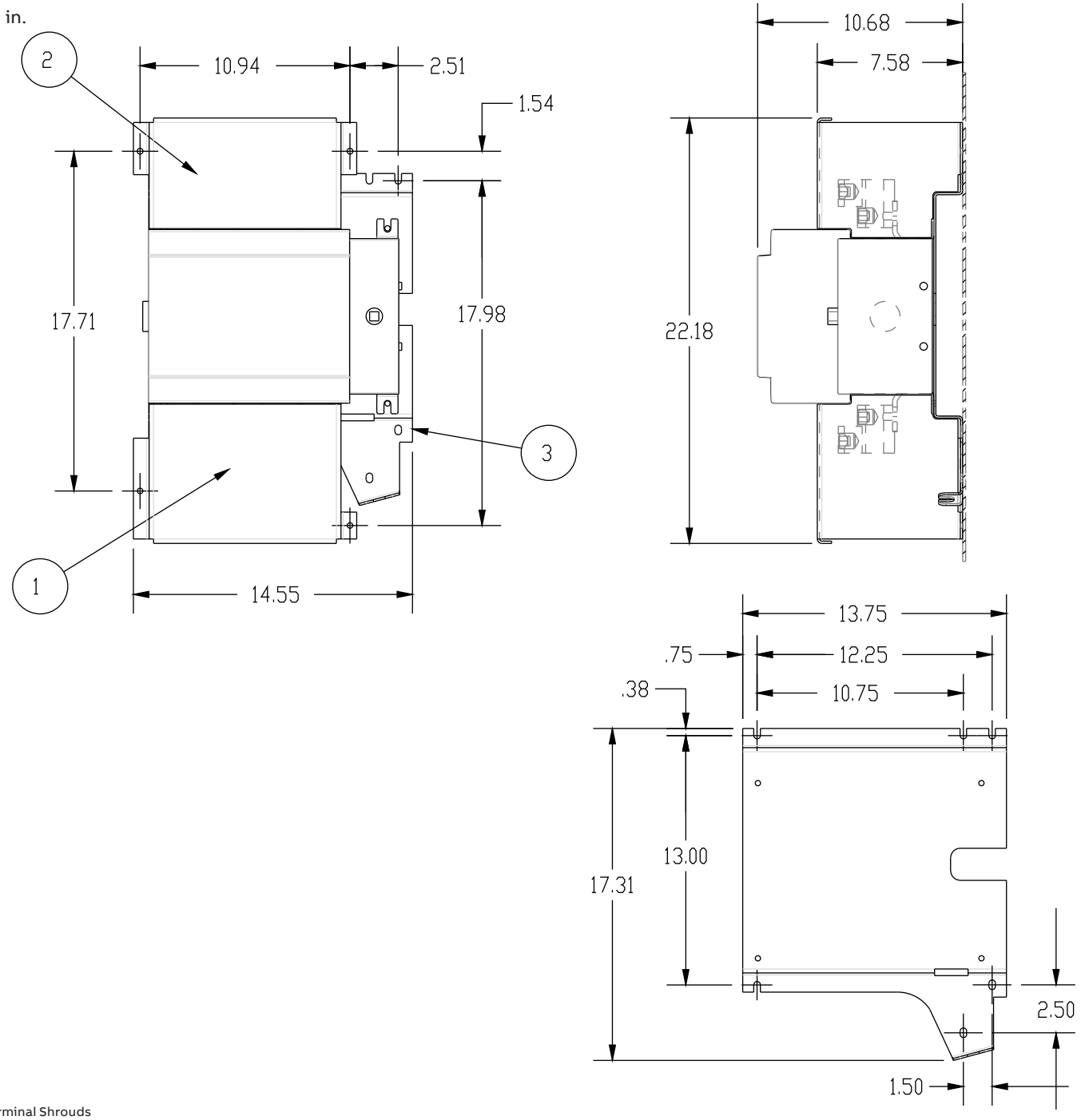


①② Terminal Shrouds
③ Flange switch base plate
Note 1: Mount Shrouds with 1/4" screws 4 places (provided with shroud kit)

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS600J30-FC

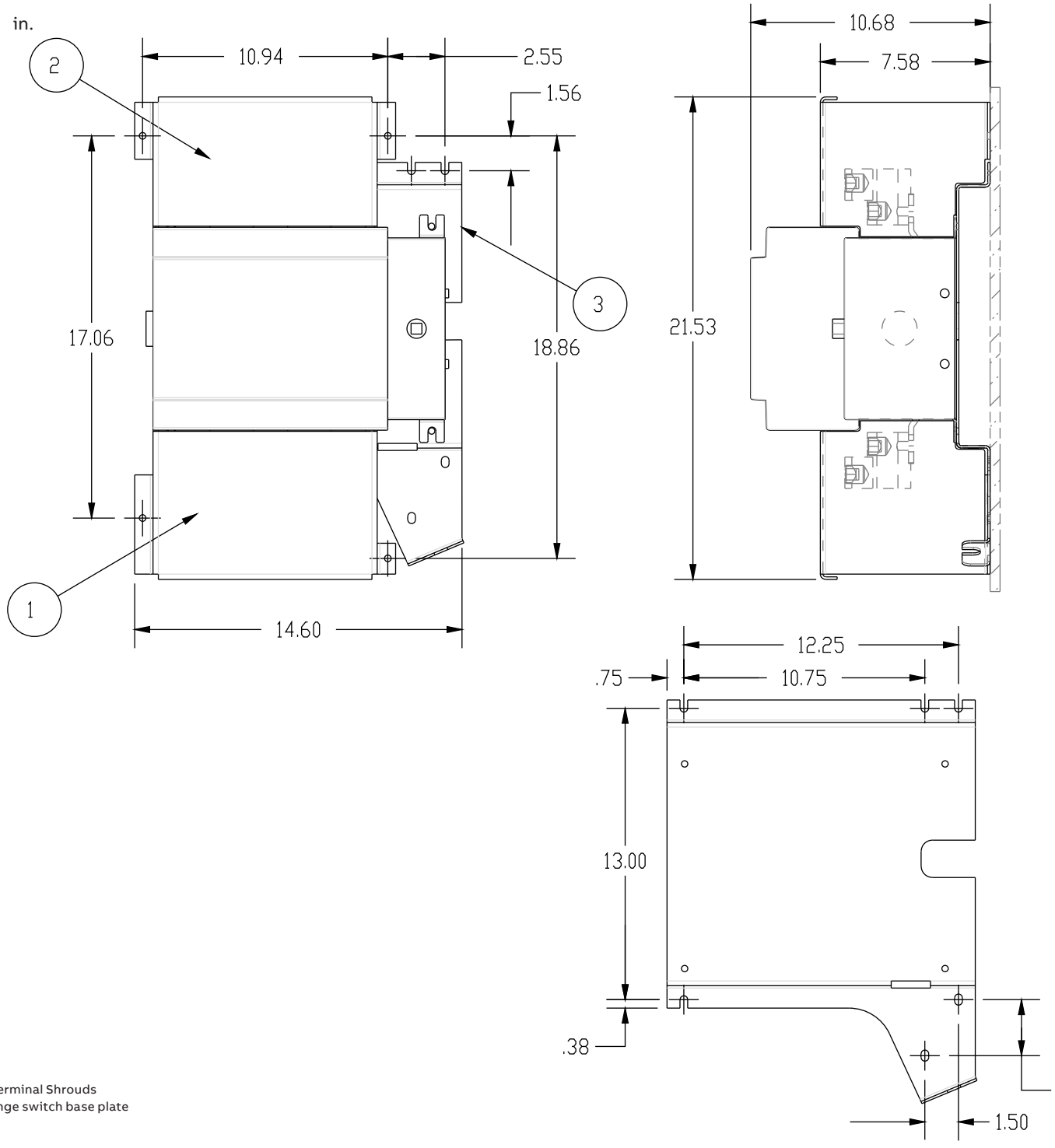


①②Terminal Shrouds
③Flange switch base plate

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS800L30-FC

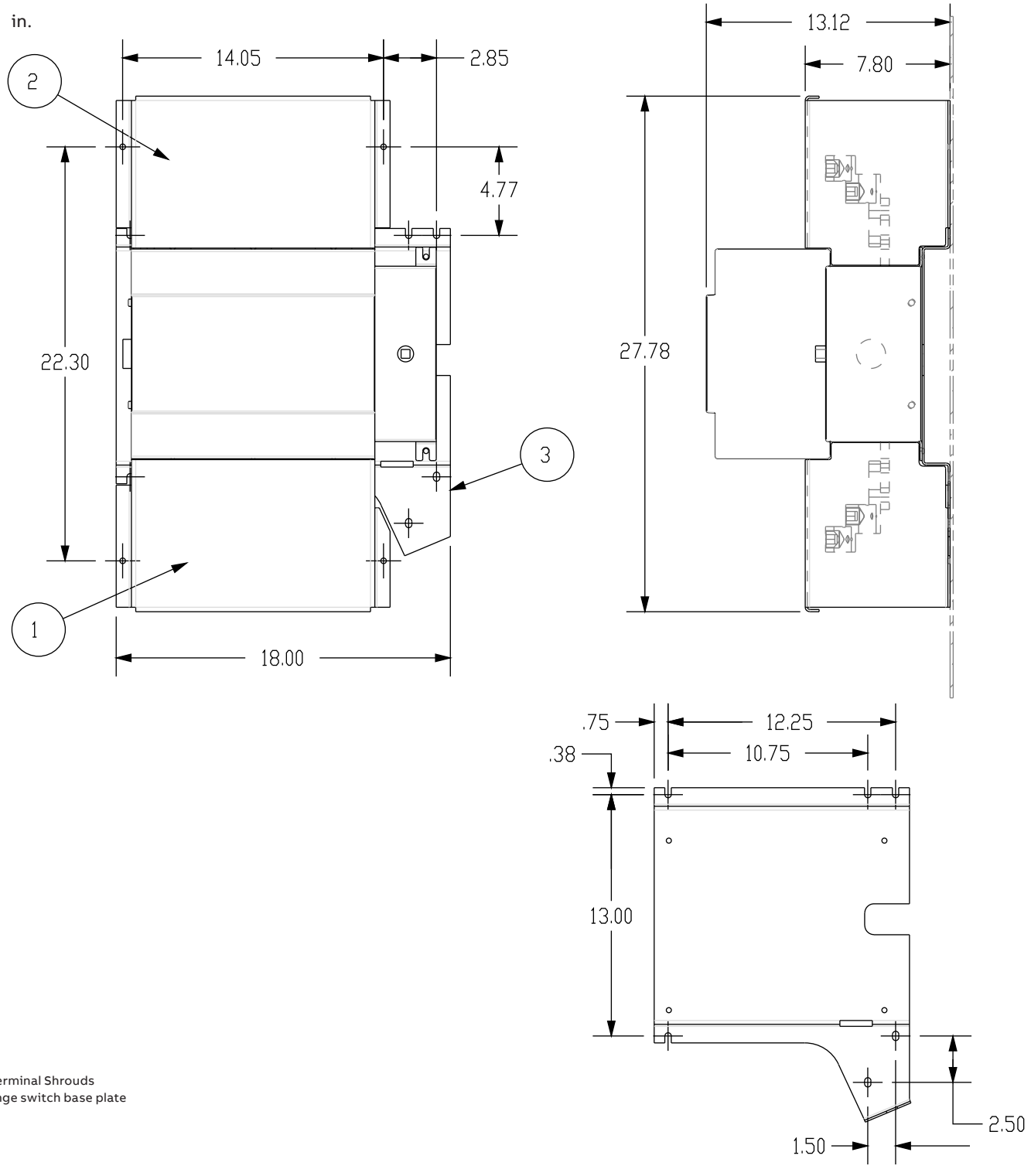


①②Terminal Shrouds
③Flange switch base plate

Flange operated disconnect switch cable operated fusible

Dimensional drawings

OS1200L30-FC



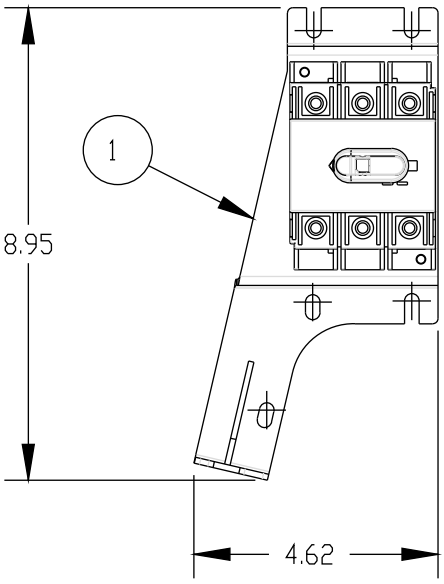
①②Terminal Shrouds
③ Flange switch base plate

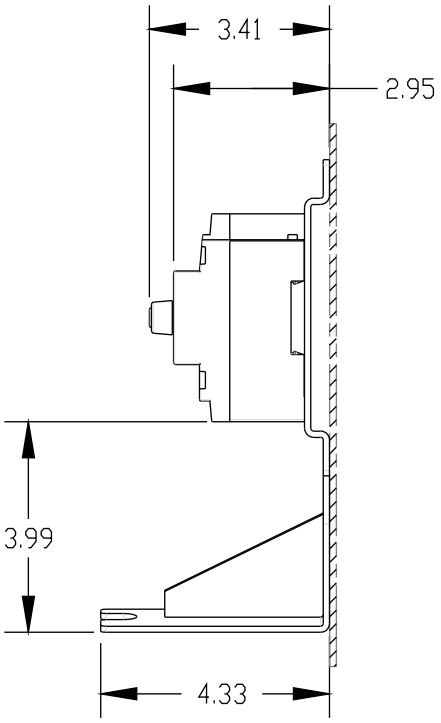
Flange operated disconnect switch cable operated non-fusible

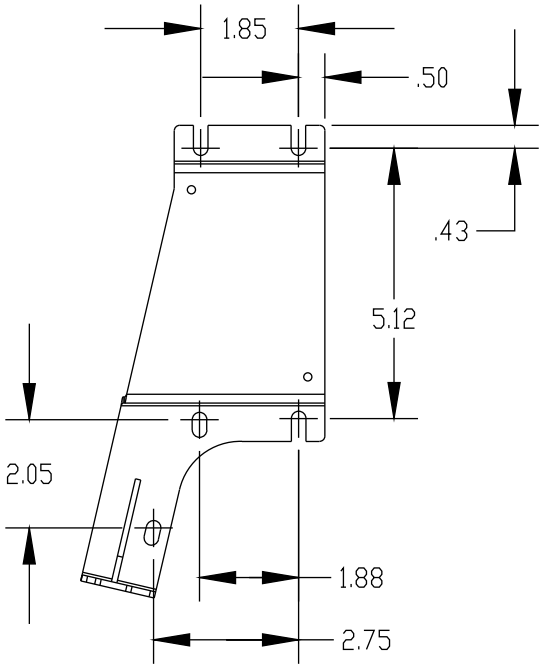
Dimensional drawings

OT30F3

in.







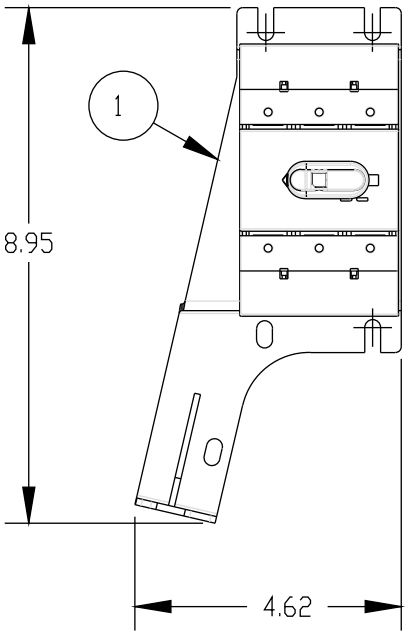
① MKCS1: Operating mechanism

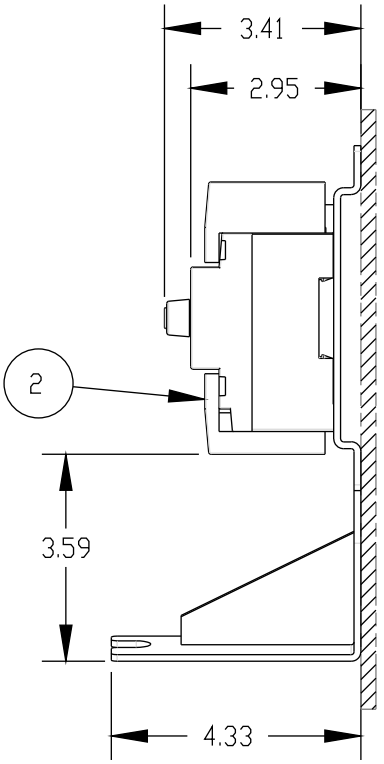
Flange operated disconnect switch cable operated non-fusible

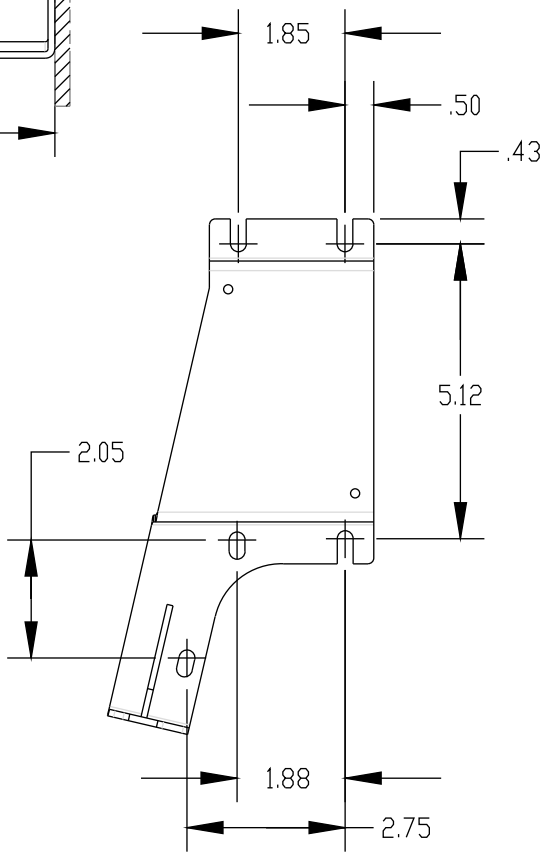
Dimensional drawings

OT60F3

in.







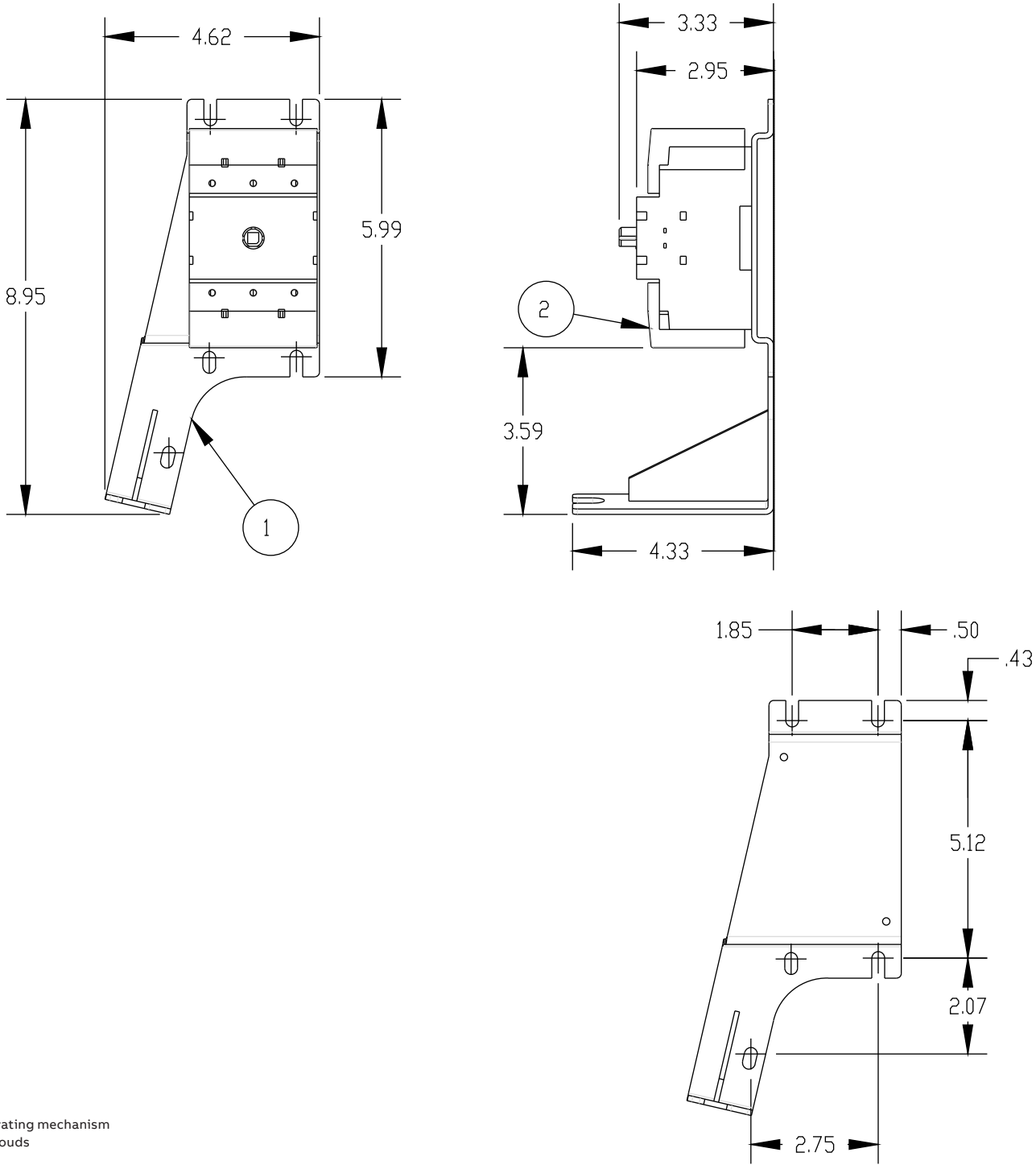
① MKCS1: Operating mechanism
② Terminal Shrouds

Flange operated disconnect switch cable operated non-fusible

Dimensional drawings

OT100F3

in.



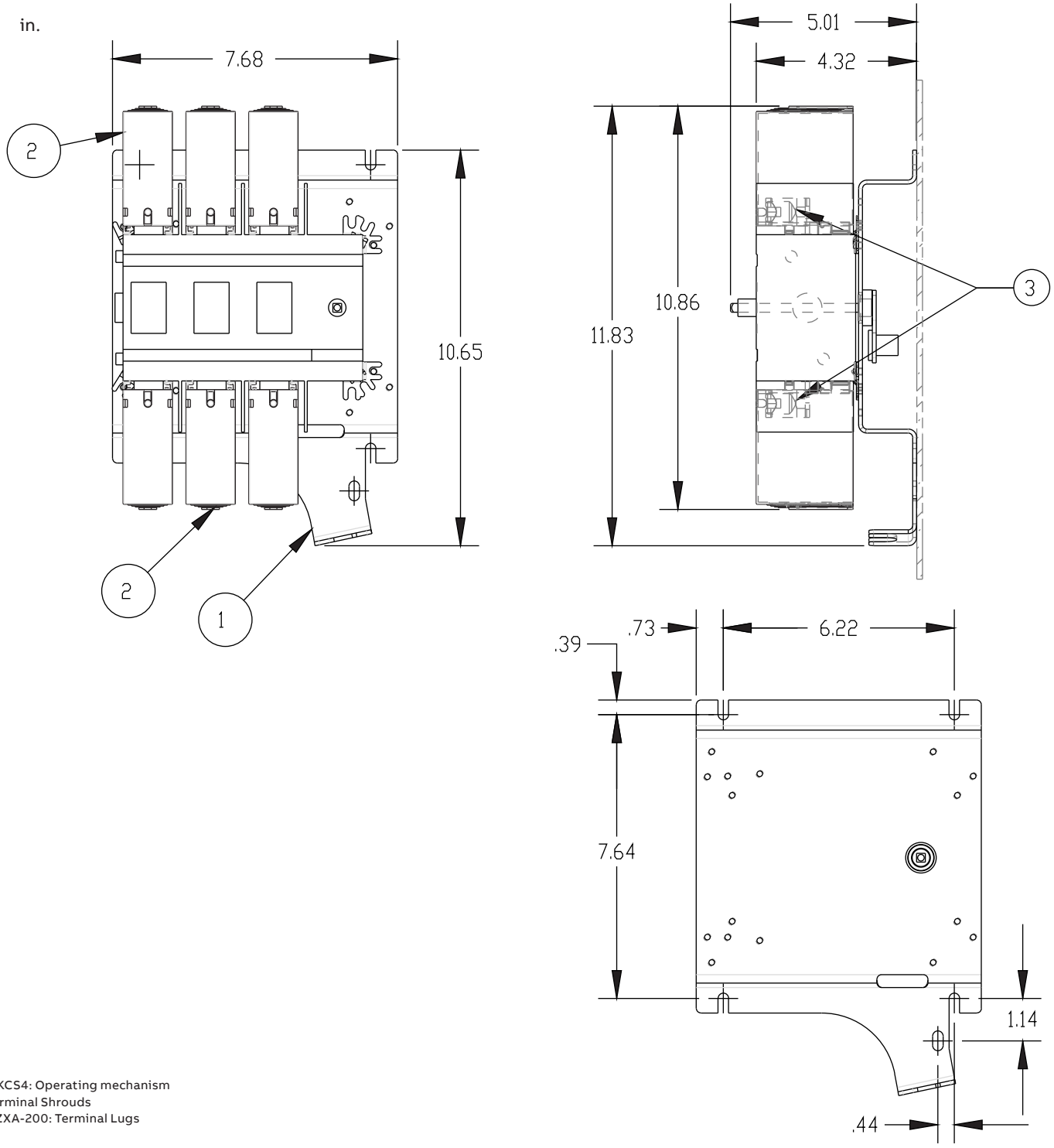
① MKCS1: Operating mechanism
② Terminal Shrouds

Flange operated disconnect switch cable operated non-fusible

Dimensional drawings

OT200U30

in.

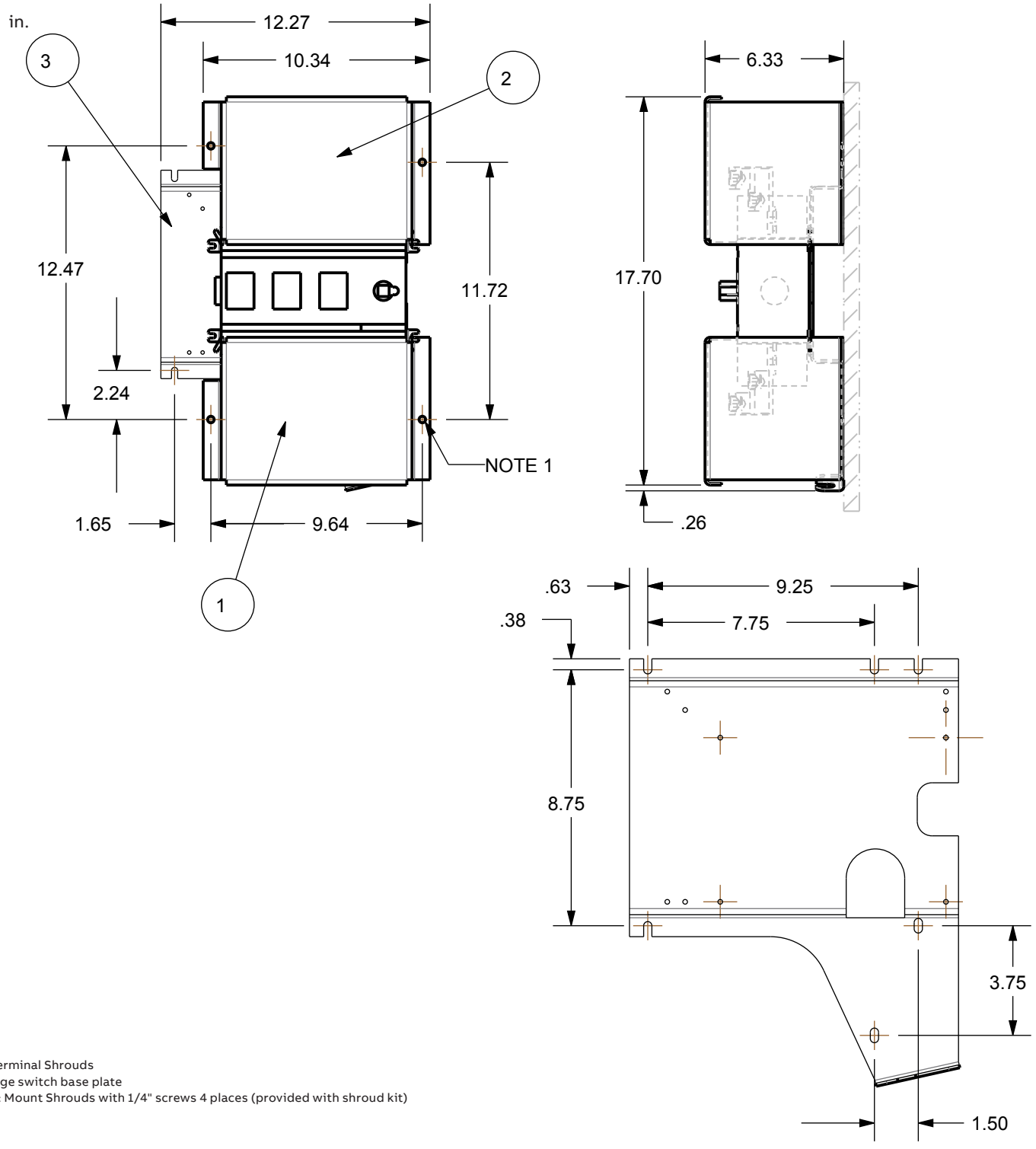


① MKCS4: Operating mechanism
② Terminal Shrouds
③ OZXA-200: Terminal Lugs

Flange operated disconnect switch cable operated non-fusible

Dimensional drawings

OT400U30-FC

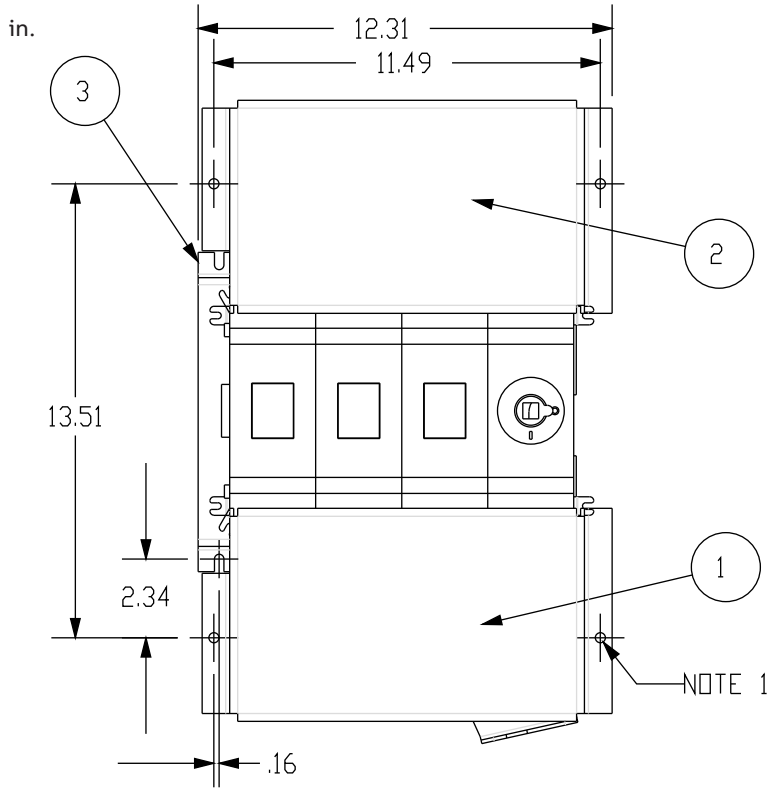


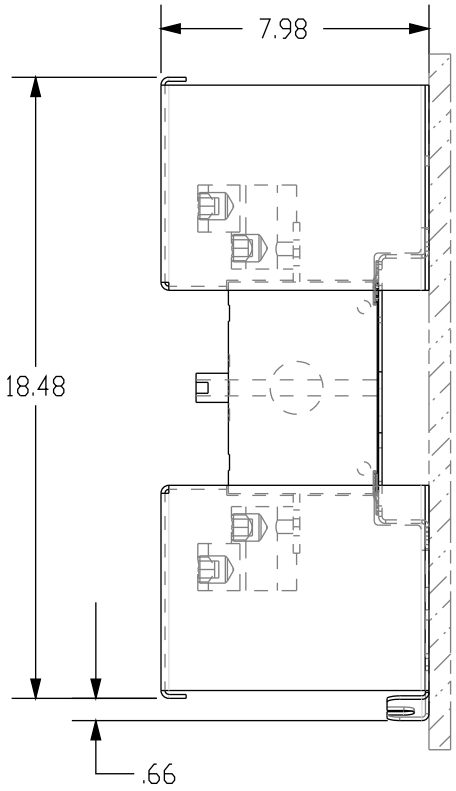
①② Terminal Shrouds
③ Flange switch base plate
Note 1: Mount Shrouds with 1/4" screws 4 places (provided with shroud kit)

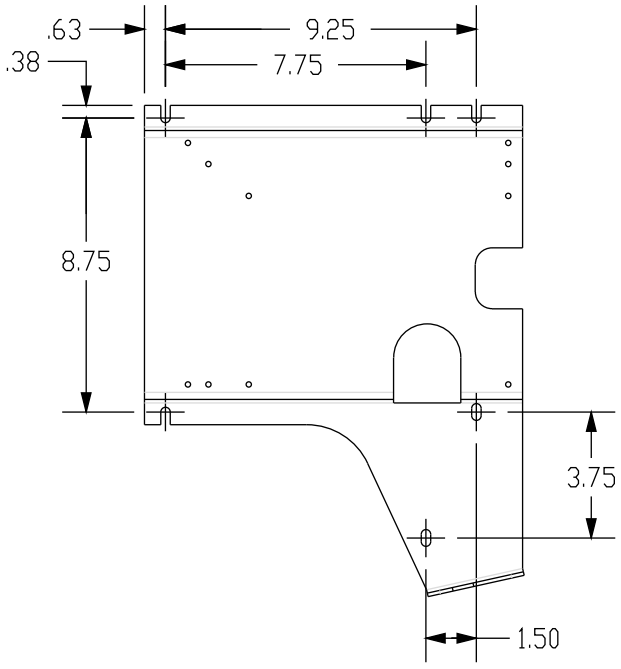
Flange operated disconnect switch cable operated non-fusible

Dimensional drawings

OT600U30-FC







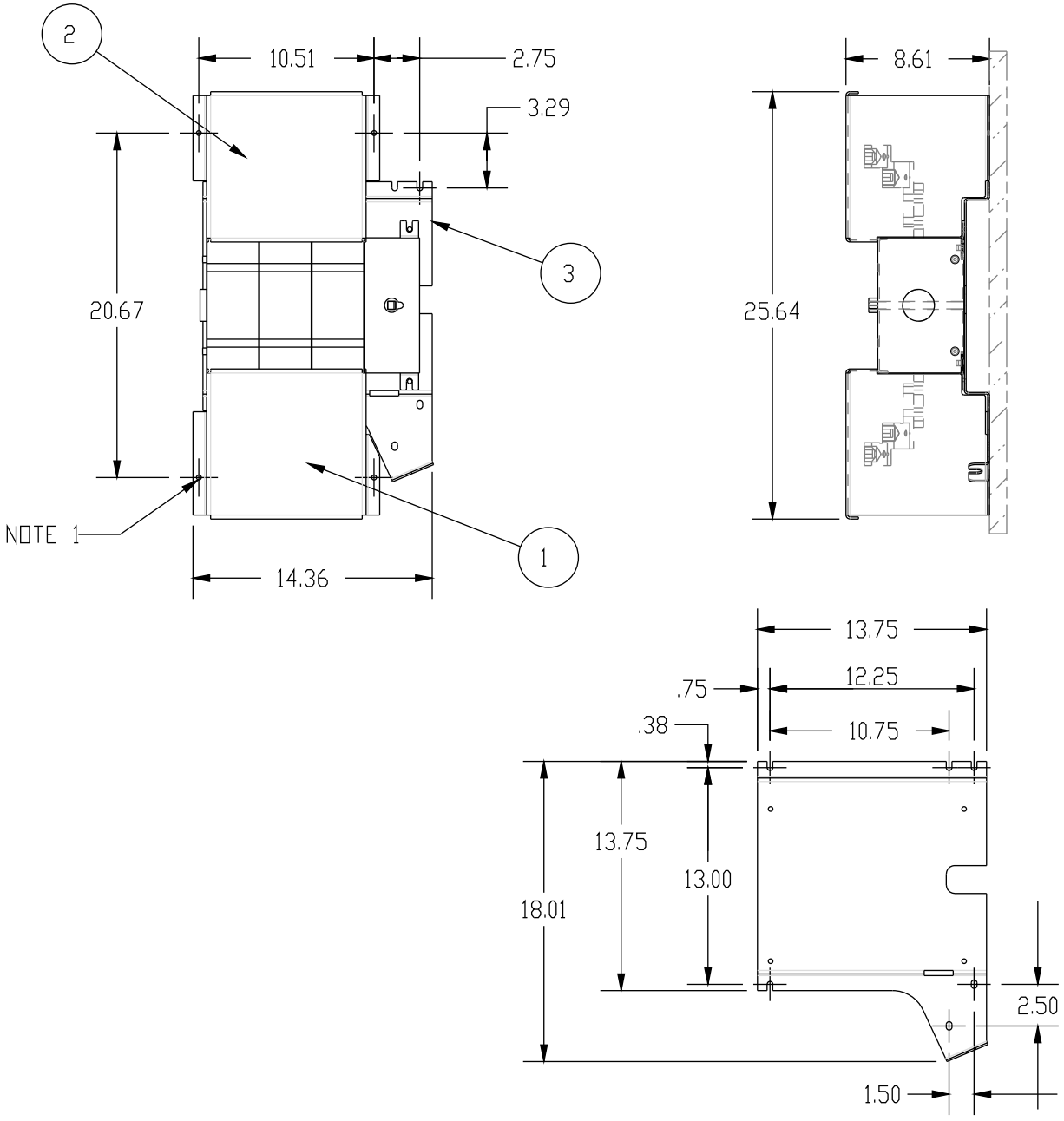
①② Terminal Shrouds
③ Flange switch base plate
Note 1: Mount Shrouds with 1/4" screws 4 places (provided with shroud kit)

Flange operated disconnect switch cable operated non-fusible

Dimensional drawings

OT800U30-FC

in.

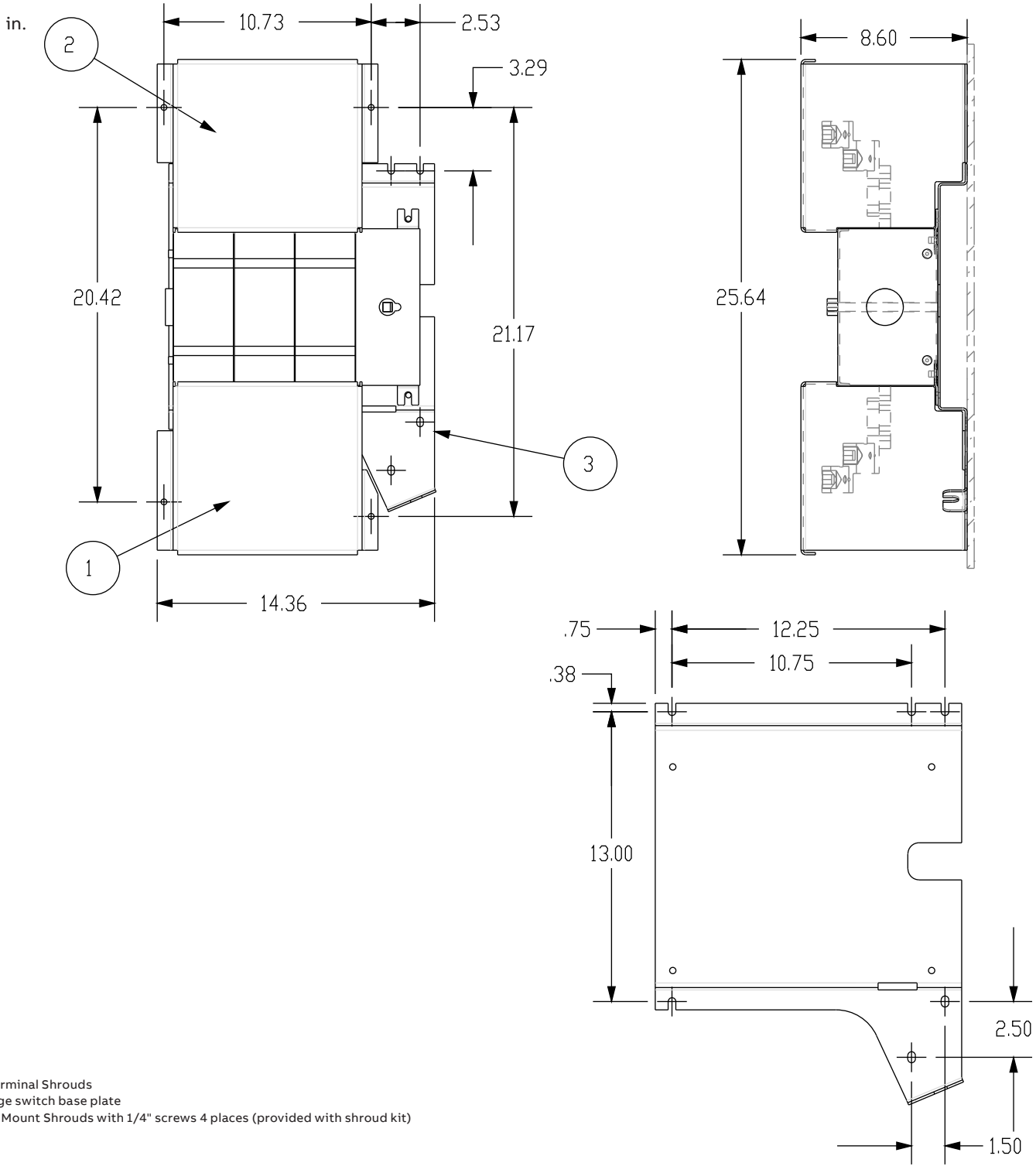


①② Terminal Shrouds
③ Flange switch base plate
Note 1: Mount Shrouds with 1/4" screws 4 places (provided with shroud kit)

Flange operated disconnect switch cable operated non-fusible

Dimensional drawings

OT1200U30-FC



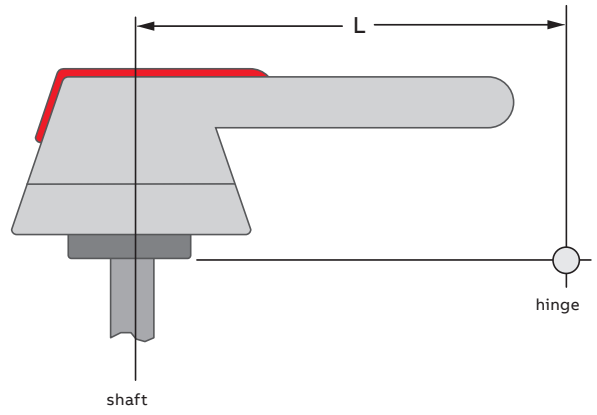
①② Terminal Shrouds
③ Flange switch base plate
Note 1: Mount Shrouds with 1/4" screws 4 places (provided with shroud kit)

Accessories for manual disconnect switches OT16...160

Dimensional drawings for handles

Minimum distance L between the hinge, handle and shaft

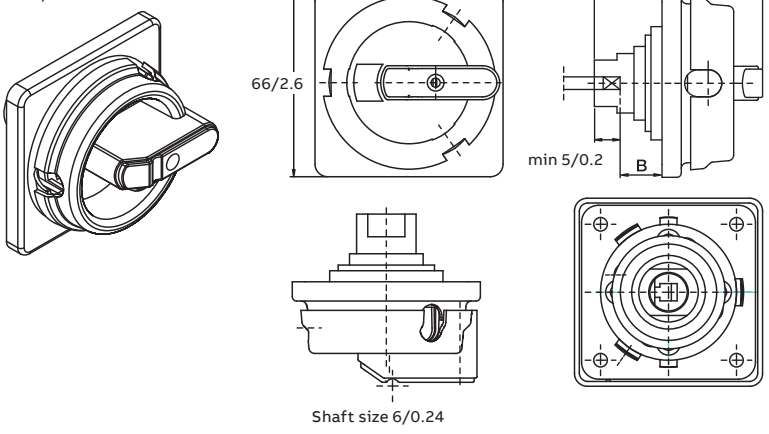
Sizes [A]	Length L [mm/in]	Handle type
OT16...100F	75/2.95	OH_1, OH_2, OH_3



Round padlockable handle types OZ331P_ and OZ371P_

Handle type [mm/in]	OZ331P_	OZ371_
A	24/0.94	21/0.83
B	3-10/0.12-0.39	4-5/0.16-0.20

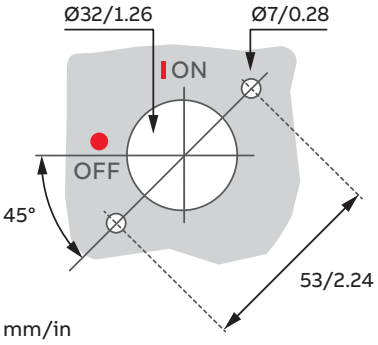
mm/in



Pistol handle

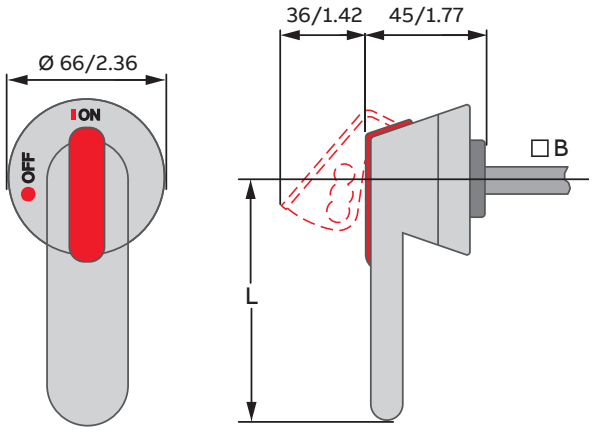
Handle type [mm/in]	Shaft diameter B	Length L
OH_45J6	6/0.24	45/1.77

Door drilling for OH_ handles:



mm/in

mm/in

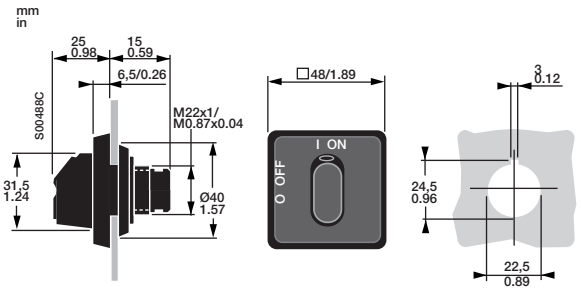


Accessories for manual disconnect switches OT16...160

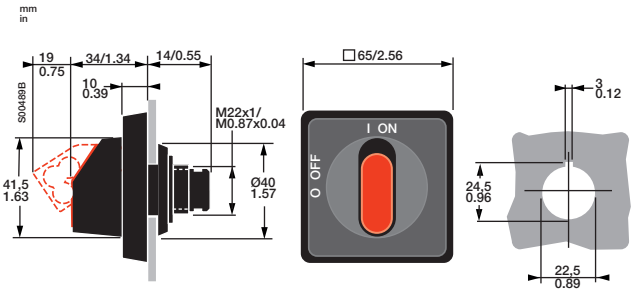
Dimensional drawings for handles

Handles for base and DIN-rail mounted switches

OH_S1A_, OH_S3A_



OH_S2A_

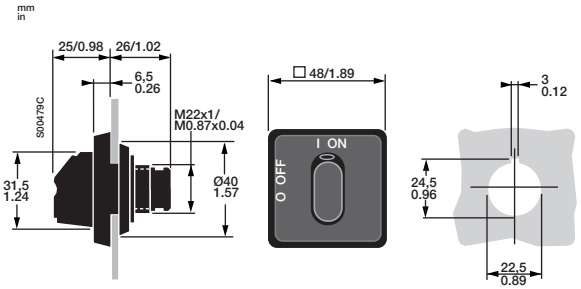


OH_

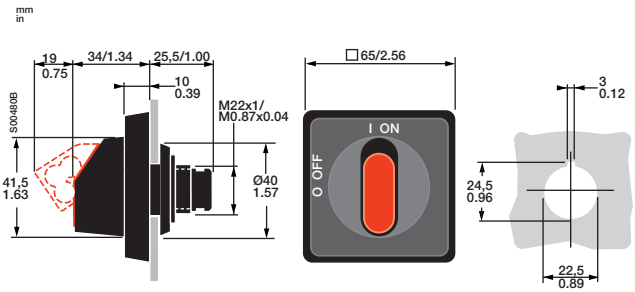
Handle type	Length [mm/in]
OH_S1A_	31,5/1.24
OH_S3A_	37,5/1.48

Handles for door mounted switches (snap-on mounting)

OH_S1P_, OH_S3P_



OH_S2P_

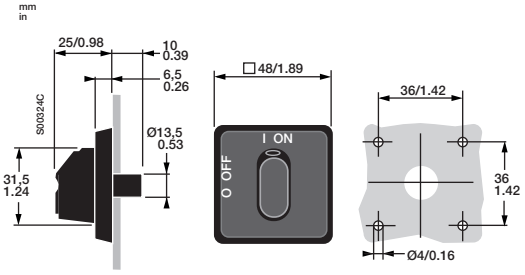


OH_

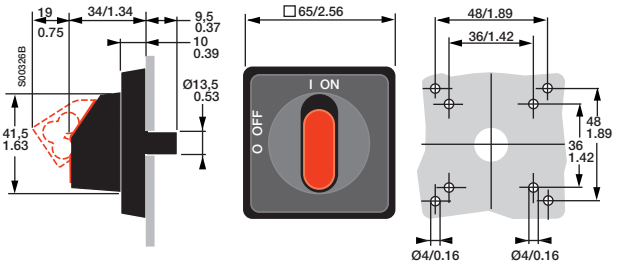
Handle type	Length [mm/in]
OH_S1P_	31,5/1.24
OH_S3P_	37,5/1.48

Handles for door mounted switches (screw-mounting)

OH_S1R_, OH_S3R_



OH_S2R_



OH_

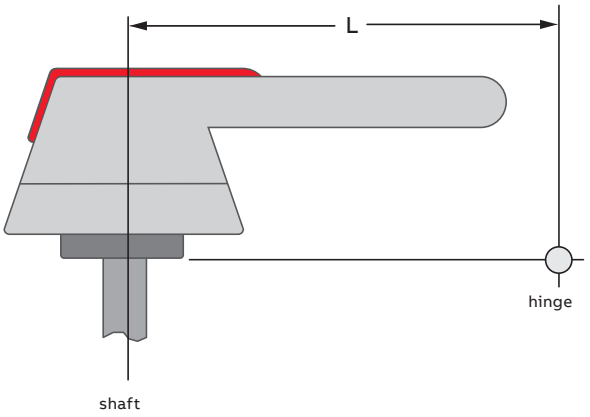
Handle type	Length [mm/in]
OH_S1P_	31,5/1.24
OH_S3P_	37,5/1.48

Accessories for manual disconnect switches OT200...2000

Dimensional drawings for handles

Minimum distance L between the hinge and the rotating shaft

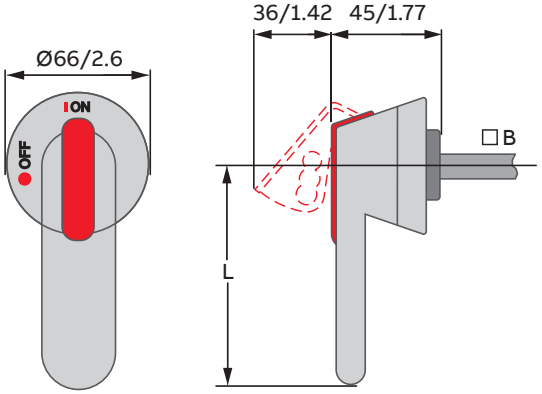
Sizes [A]	Length L [mm]	Length L [in]	Handle type
OT200_P	60	2,36	OH_65J_
OT400_P	95	3,74	OH_95J_
OT600...800_P	150	5,91	OH_125J_
OT1200...2000_P	274	10,79	OH_274J_
OT1200...2000_P	330	12,99	OH_330J_



Plastic handles, type OH

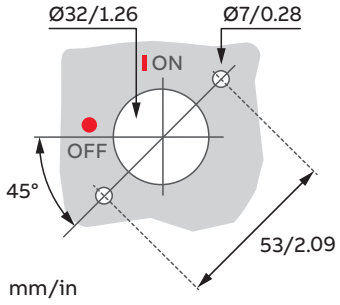
Handle type	Shaft diameter B	Length L [mm]	Length L [in]
OH_65J6	6	65	2,56
OH_80J6	6	80	3,15
OH_95J12	12	95	3,74
OH_125J12	12	125	4,92
OH_145J12	12	145	5,71
OH_175J12	12	175	6,89
OH_275J12	12	275	10,83

mm/in

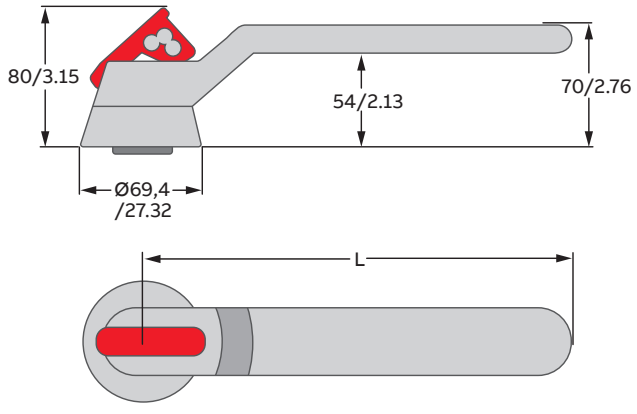


Door drilling for OH_ handles:

Handle type	Length L [mm]	Length L [in]
OH_274J12	274	10,79
OH_330J12	330	12,99



mm/in



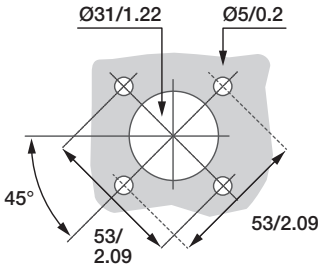
Accessories for manual disconnect switches OT200...2000

Dimensional drawings for pistol handles

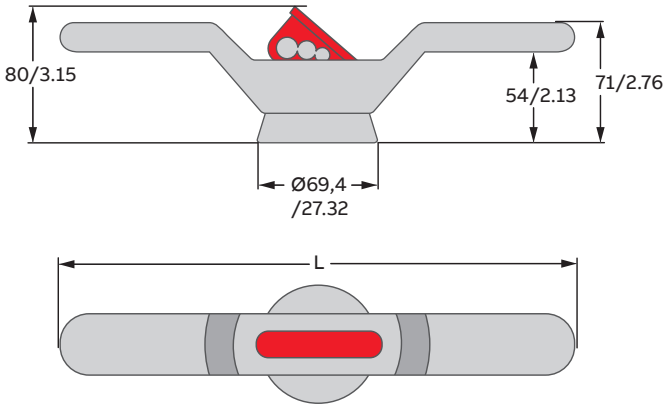
Plastic handles, type OHB

Handle type	Length L [mm]	Length L [in]
OHB150J12P	300	11,81
OHB200J12P	400	15,75

Door drilling for OHB_ handles:



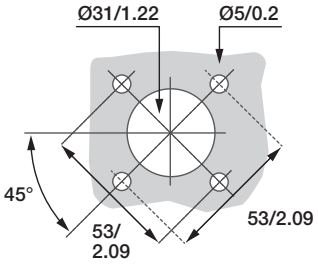
mm/in



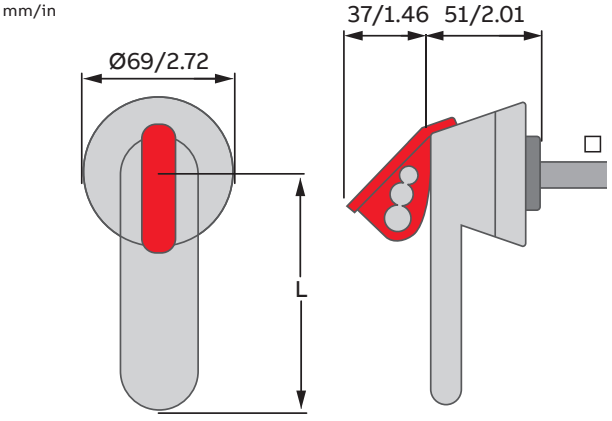
Stainless steel handles

Handle type [mm]	Shaft diameter B	Length L [mm]	Length L [in]
OHM65L6	6	65	2,56
OHM125L12	12	125	4,92
OHM175L12	12	175	6,89
OHM275L12	12	275	10,83

Door drilling for OHM_ handles:



mm/in

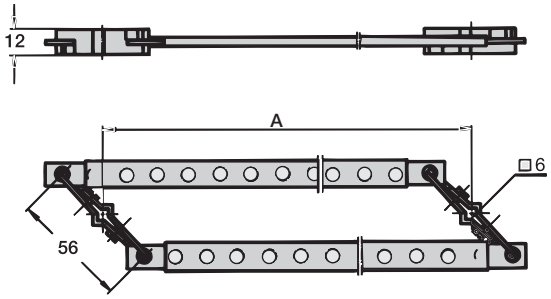


Accessories for manual disconnect switches OT16...160

Dimensional drawings for conversion kits

6 and 8-pole switches

OTZW8

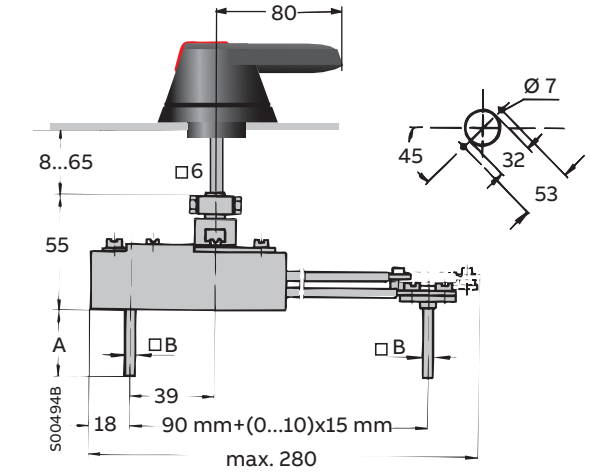


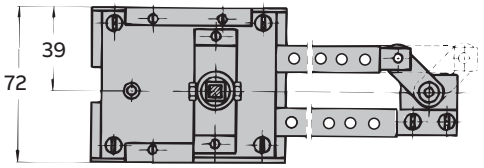
OTZW8

[mm]	A (min)
OT16...40F	45+(0...12)x15
OT63...80F	60+(0...11)x15
OT100...125F	75+(0...10)x15

Change-over switches

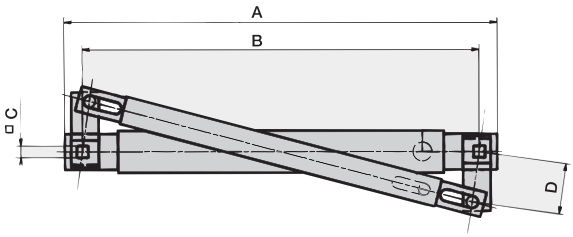
OESAZW1





Mechanical interlock

OTZW10



OTZW10

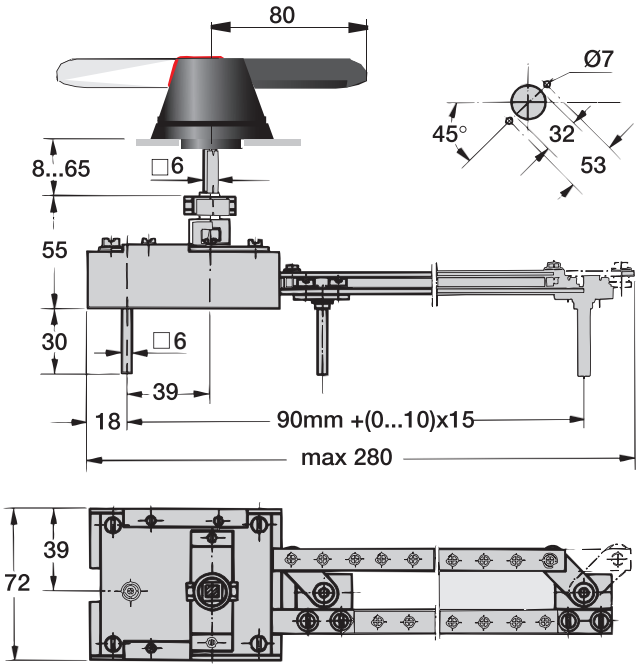
	OTZW10
A	206
B	190
C	6
D	30

Accessories for manual disconnect switches OT16...160

Dimensional drawings for conversion kits

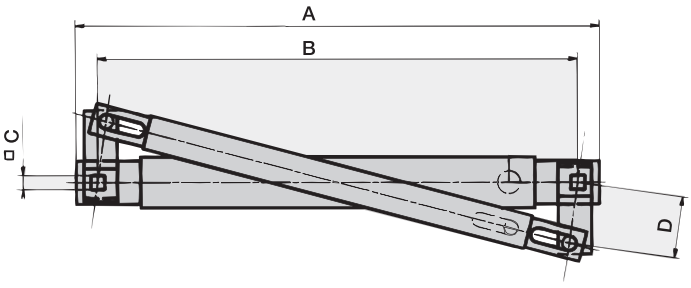
By-pass switches

OTZW17



Mechanical interlock

OTZW10, OTZW24



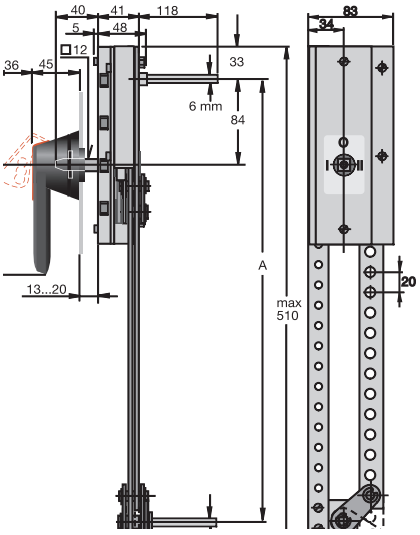
OTZW_		
[mm]	OTZW10	OTZW24
A	206	114
B	190	100
C	6	6
D	30	15

Accessories for manual disconnect switches OT200...2000

Dimensional drawings for conversion kits

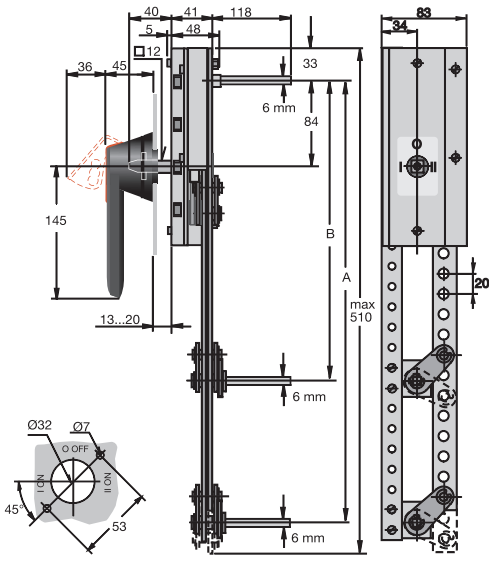
Change-over and by-pass switches

OTZW25



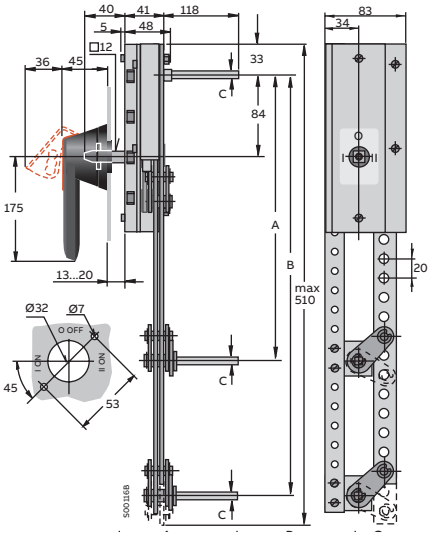
OTZW25	
A	210+(0...18)x20mm

OTZW26



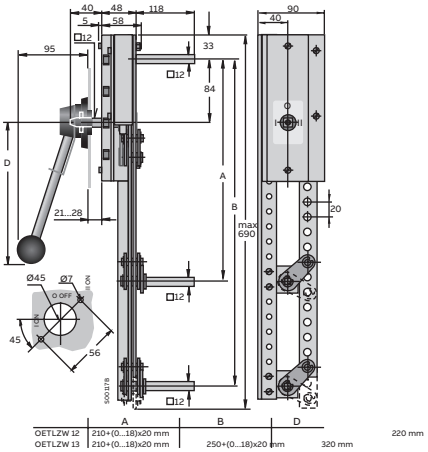
OTZW26	
A	210+(0...18)x20mm
B	210+(0...18)x20mm

OETLZW11



OETLZW11	
A	210+(0...11)x20mm

OETLZW12, OETLZW13

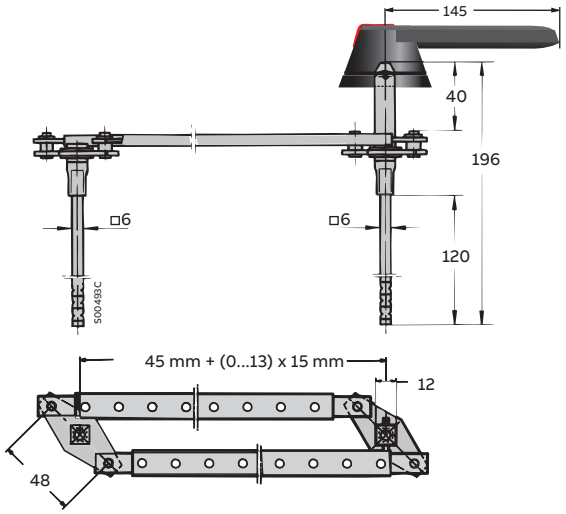


OETLZW12, OETLZW13		
	OETLZW12	**OETLZW13**
A	210+(0...18)x20mm	210+(0...18)x20mm
B		250+(0...18)x20mm
C	220 mm	320 mm

Accessories for manual disconnect switches OT200...2000

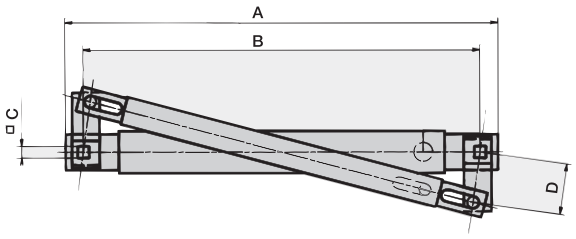
Dimensional drawings for conversion kits

6 and 8-pole switches
OESAZW2



Mechanical interlock

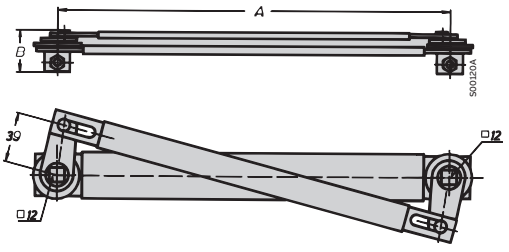
OTZW10



OTZW10

	OTZW10
A	206
B	190
C	6
D	30

OETLZW3, OETLZW14, OETLZW15

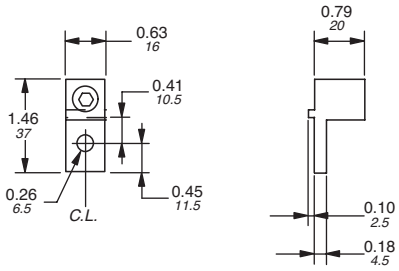


OETLZW3, OETLZW14, OETLZW15

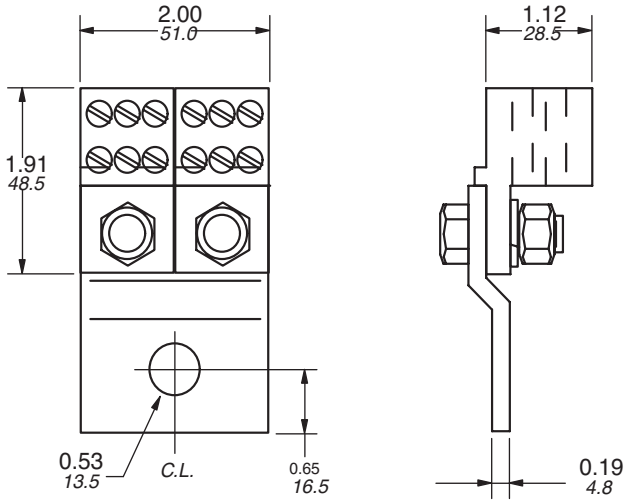
	OETLZW3	OETLZW14	OETLZW15
A	300	250	500
B	31	31	36

Approximate dimensions
For Terminal lugs

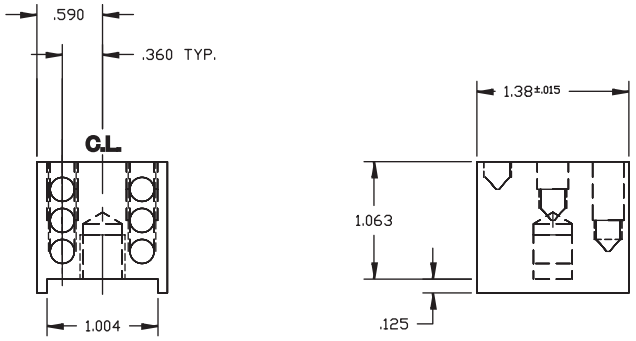
OZXA-24 — for use with OS100GJ_ switches



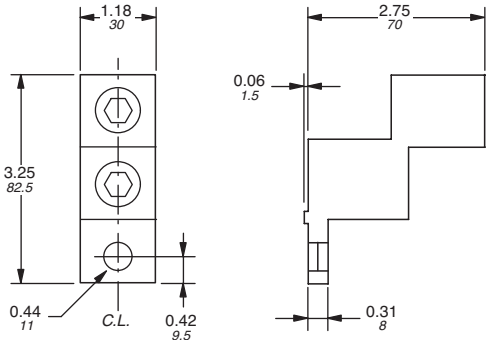
OZXA-175 — for use with OT200U_, OS200J_switches



OZXA-406 — for use with OT400U_ switches

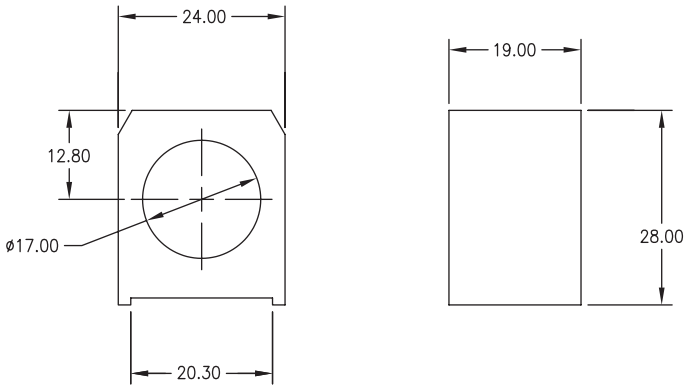


OZXA-33 — for use with OT400U_, OS400J_ switches

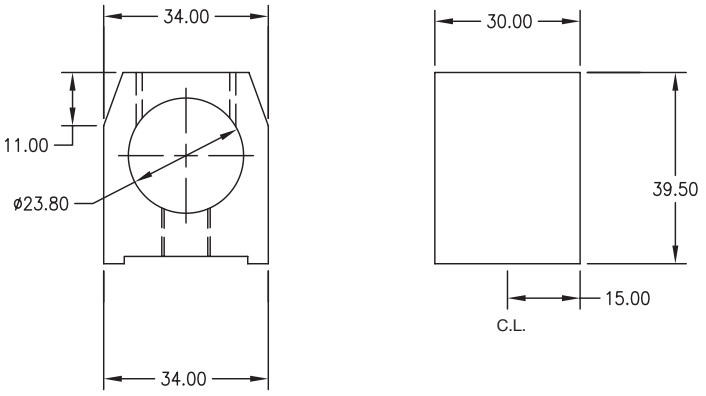


Approximate dimensions
Terminal lugs

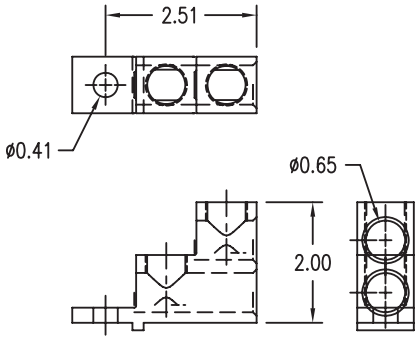
OZXA-200 — for use with OT200U_, OS200J_switches



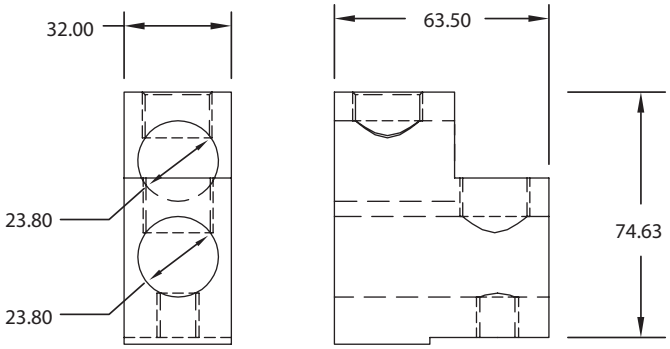
OZXA-400 — for use with OT400U_, OS400J_switches



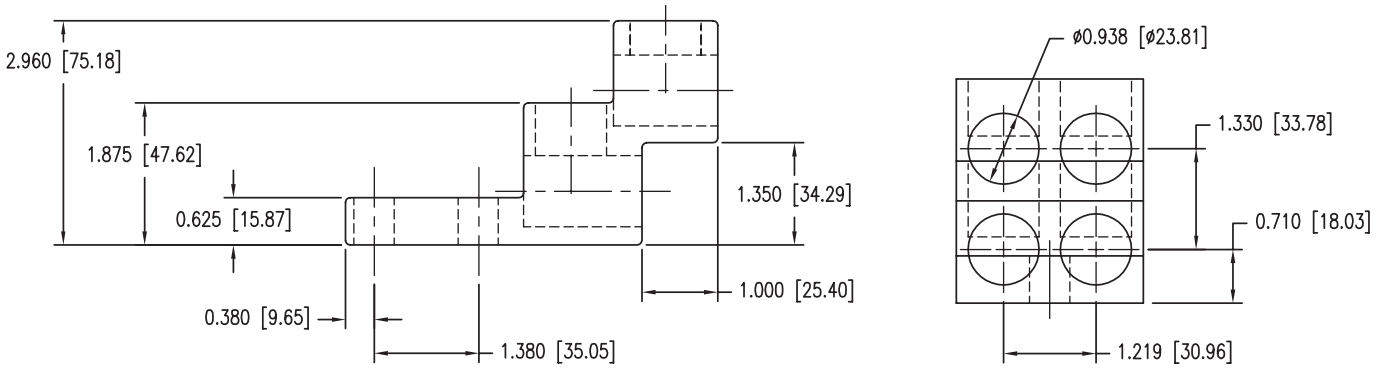
OZXA-402 — for use with OT400U_, OS400J_switches



OZXA-800 — for use with OT600U_, OS600J_, OS800L_switches

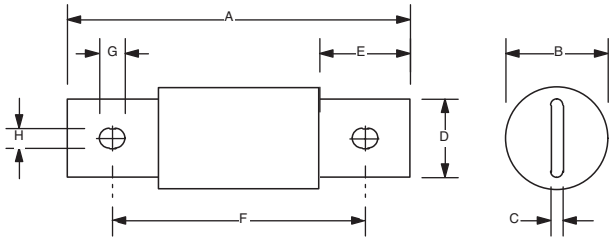


OZXA-1200 — for use with OT800U_, OT1200U_, OT1600U_, OT2000U_ OS1200L_switches



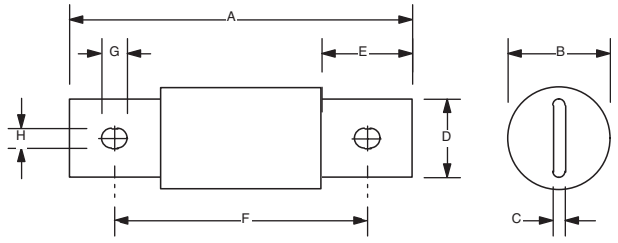
Approximate dimensions
For Fuses

Class J (600V)



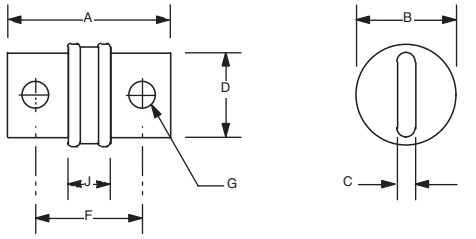
Ampere rating	A	B	C	D	E	F	G	H
1 – 30	2.25	.81	—	—	—	—	—	—
31 – 60	2.38	1.06	—	—	—	—	—	—
61 – 100	4.62	1.12	.12	.75	1	3.62	.38	.28
101 - 200	5.75	1.62	.19	1.12	1.38	4.38	.38	.28
201 - 400	7.12	2.12	.25	1.62	1.88	5.25	.53	.41
401 - 600	8.00	2.5	.38	2.00	2.12	6.00	.69	.53

Class L (600V)



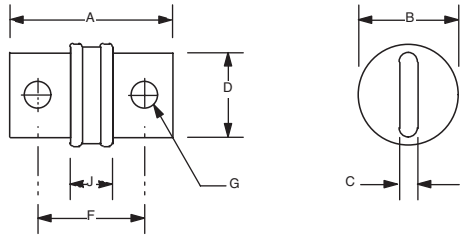
Ampere rating	A	B	C	D	E	F	G	H
200 - 600	8.62	2.00	.31	1.62	2.41	6.25	1.12	.62
601 - 800	8.62	2.50	.38	2.00	2.41	6.25	1.12	.62

Class T (600V)



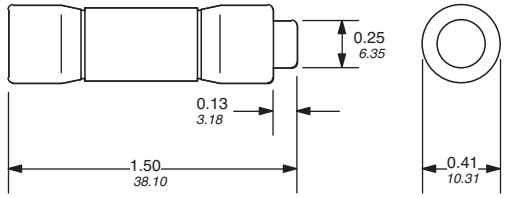
Ampere rating	A	B	C	D	F	G	J
1 – 30	.88	.41	—	—	—	—	—
31 – 60	.88	.56	—	—	—	—	—
61 – 100	2.16	.81	.12	.75	1	3.62	.38
101 - 200	2.45	1.06	.19	1.12	1.38	4.38	.38
201 - 400	2.75	1.33	.25	1.62	1.88	5.25	.53
401 - 600	3.06	1.62	.31	2.00	2.12	6.00	.69
601 - 800	3.38	2.08	.38	1.75	2.22	.55	.88

Class T (300V)

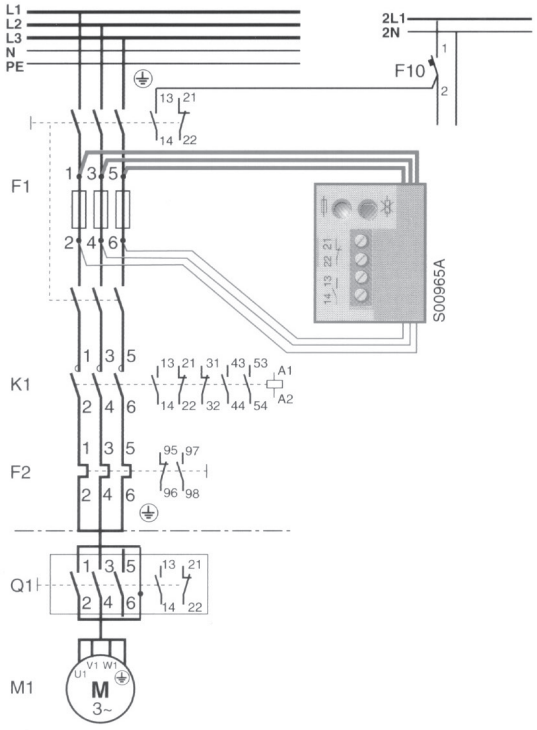


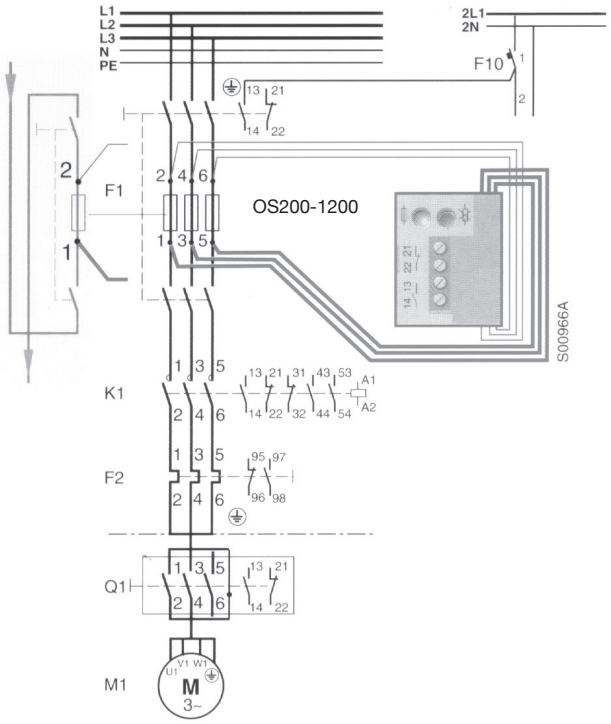
Ampere rating	A	B	C	D	F	G	J
1 – 30	1.50	.56	—	—	—	—	—
35 – 60	1.56	.81	—	—	—	—	—
70 – 100	2.95	—	.12	.75	2.36	.28	1.64
110 - 200	3.25	—	.19	.88	2.50	.34	1.66
225 - 400	3.62	—	.25	1.00	2.69	.41	1.64
450 - 600	3.98	—	.31	1.25	2.95	.48	1.78
601 - 800	4.37	—	.38	1.75	3.17	.55	1.88

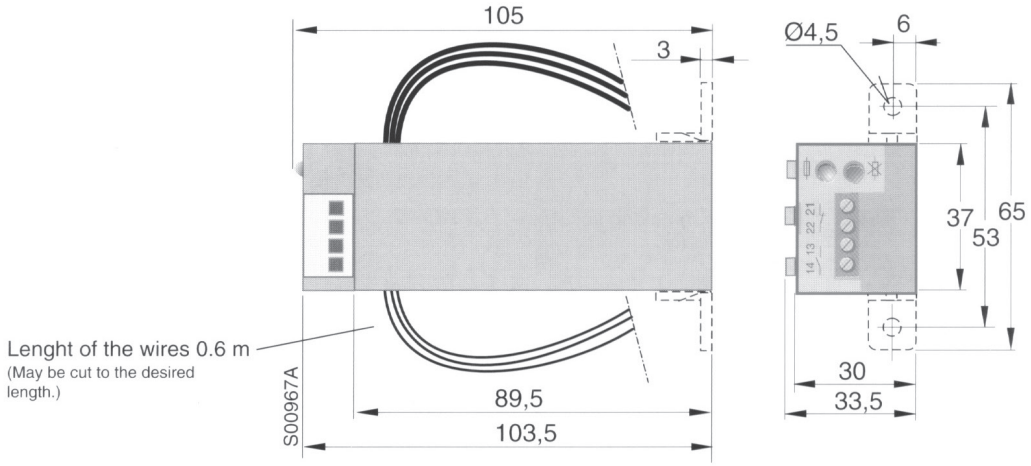
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PDAL2/110DC	Electrical interlock	6/38, 6/65
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ST	Accessory	6/9
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