

PRODUCT CATALOG CANADA

# Disconnect Switches

## Fusible, Non-fusible, Enclosed, Cam switches



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



# Disconnect switches

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

## 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 switches from 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

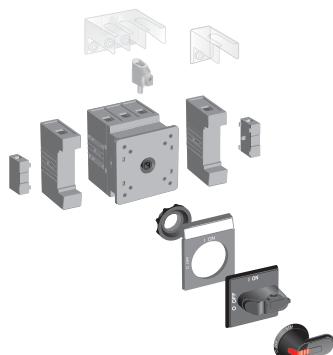
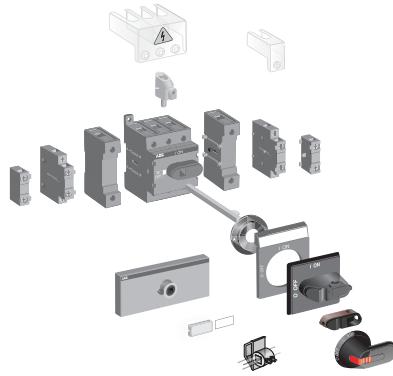
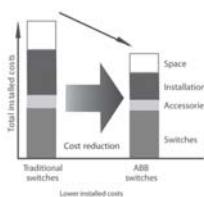
Flange: versions available in 30-1200 A sizes.

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



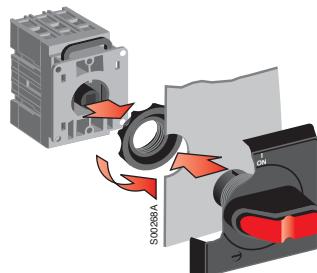
# General information

## 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



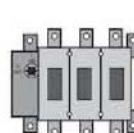
Base screw mounting



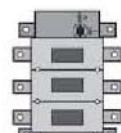
DIN rail mounting

### Mounting positions

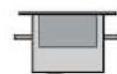
Disconnect switches offer several mounting possibilities:



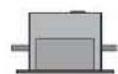
Horizontal



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.

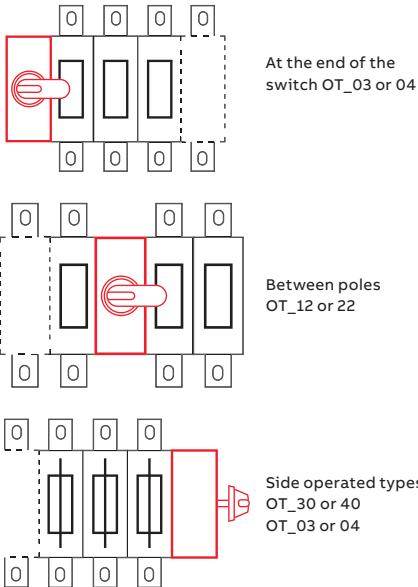


### Incoming power feed

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

# General information

## Open style fusible & non fusible disconnect switches



### Modular construction

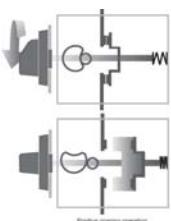
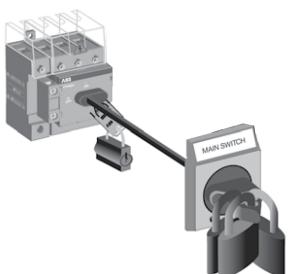
Different pole configurations make it easy to install the disconnect inside the enclosures as well as enhance the external operation through the pistol handles.

### 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.

### 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.

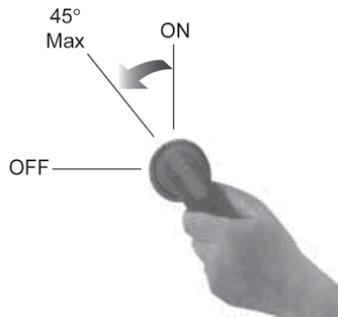


### Positive opening operation

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.

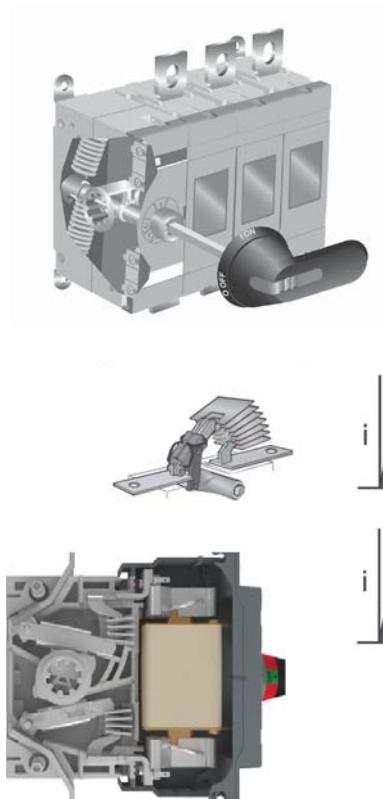


### Constant control for non-fusible disconnect switches

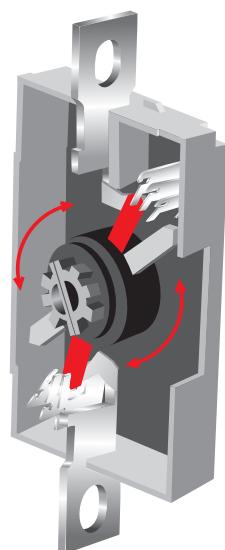
The OT16 to OT100 provide the user with constant control over the power circuit. Whether the enclosure door is open or closed, qualified personnel have the ability to manually operate the disconnect. This is most meaningful when qualified personnel are working with the enclosure door open: In case of 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



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,  $i^2t$ , 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

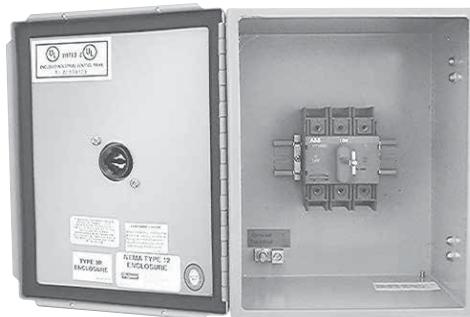
## Enclosed non fusible & fusible disconnect switches

### 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.

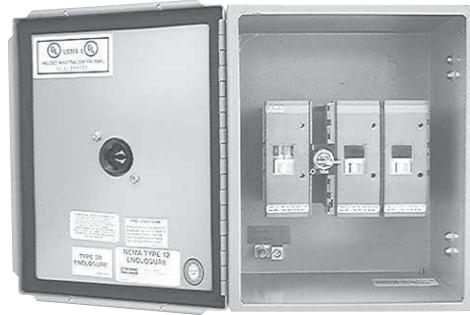
No hazardous exposed parts

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

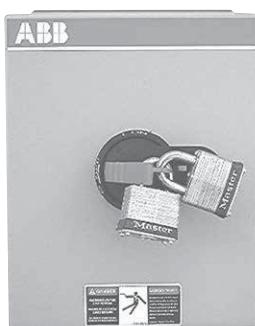
#### Lockable

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

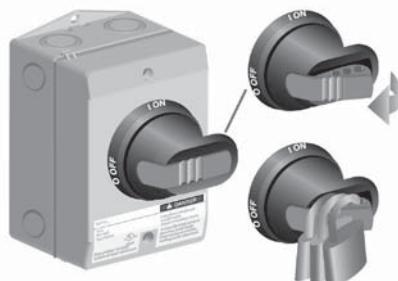
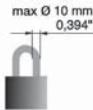
SafeLine compact, heavy duty enclosed disconnect switches

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.

<b>Disconnect switch type</b>	NF	16	1	- 3P	11	<b>Accessories</b>
NF = Non-fusible						10 = 1 N.O. auxiliary contact
FJ = Fused Class J, (30A – 600A)						01 = 1 N.C. auxiliary contact
FL = Fused Class L, (800A)						11 = 1 N.O. & 1 N.C. auxiliary contacts
						22 = 2 N.O. & 2 N.C. auxiliary contacts
						N = Neutral terminal
<b>Disconnect switch frame size</b>						
16	32	45	63			
30	60	100	200			
400	600	800	1200			
<b>Environmental rating</b>						
1 = Type 1						
2 = Type 12						
4 = Type 4						
3 = Type 3R						
X = Type 4X stainless steel						



### 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

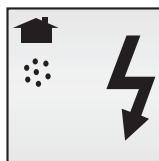
An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

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



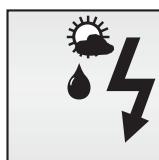
#### Type 1

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



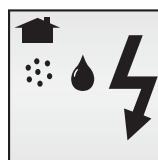
#### Type 4X

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.



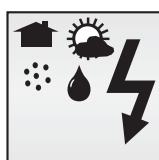
#### Type 3R

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



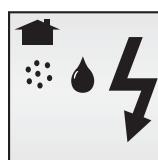
#### Type 12

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.

Legend	
	- Indoors
	- Outdoors
	- Water
	- Dirt/dust
	- Corrosion

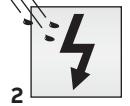
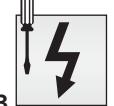
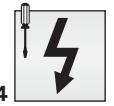
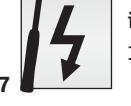
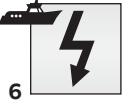
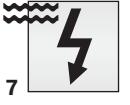
# General information

## 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
1  protected against solid objects over 50mm (e.g. accidental touch by hands.)	1  protected against vertically falling rain or condensation	1  impact 0.225 joule 150g falling from 15 cm
2  protected against solid objects over 12 mm (e.g. fingers)	2  protected against direct sprays of water up to 15° from vertical	2  impact 0.375 joule 250g falling from 15 cm
3  protected against solid objects over 2.5 mm (tools & wires)	3  protected against sprays to 60° from vertical	3  impact 0.50 joule 250g falling from 20cm
4  protected against solid objects over 1mm (small tools & small wires)	4  protected against water sprayed from all directions	5  impact 2.00 joule 500g falling from 40 cm
5  protected against dust (no harmful deposit)	5  protected against low pressure jets of water from all directions	7  impact 6.00 joule 1.5kg falling from 40 cm
6  totally protected against dust	6  protected from strong jets of water (e.g. for use on ship decks)	9  impact 20.00 joule 5 kg falling from 40 cm
7 	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 temperature**

Temperature of the air surrounding the unit.

### **Amp rating**

The basic unit of measurement for electric current (coulombs / 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 standards.

### **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 voltage, 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 no 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 resistance:  $L/R=mH/\Omega\cdot ms$ .

### **Torque**

The force that produces rotation. It is commonly measured in pound-feet (lbf-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 circuit under 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

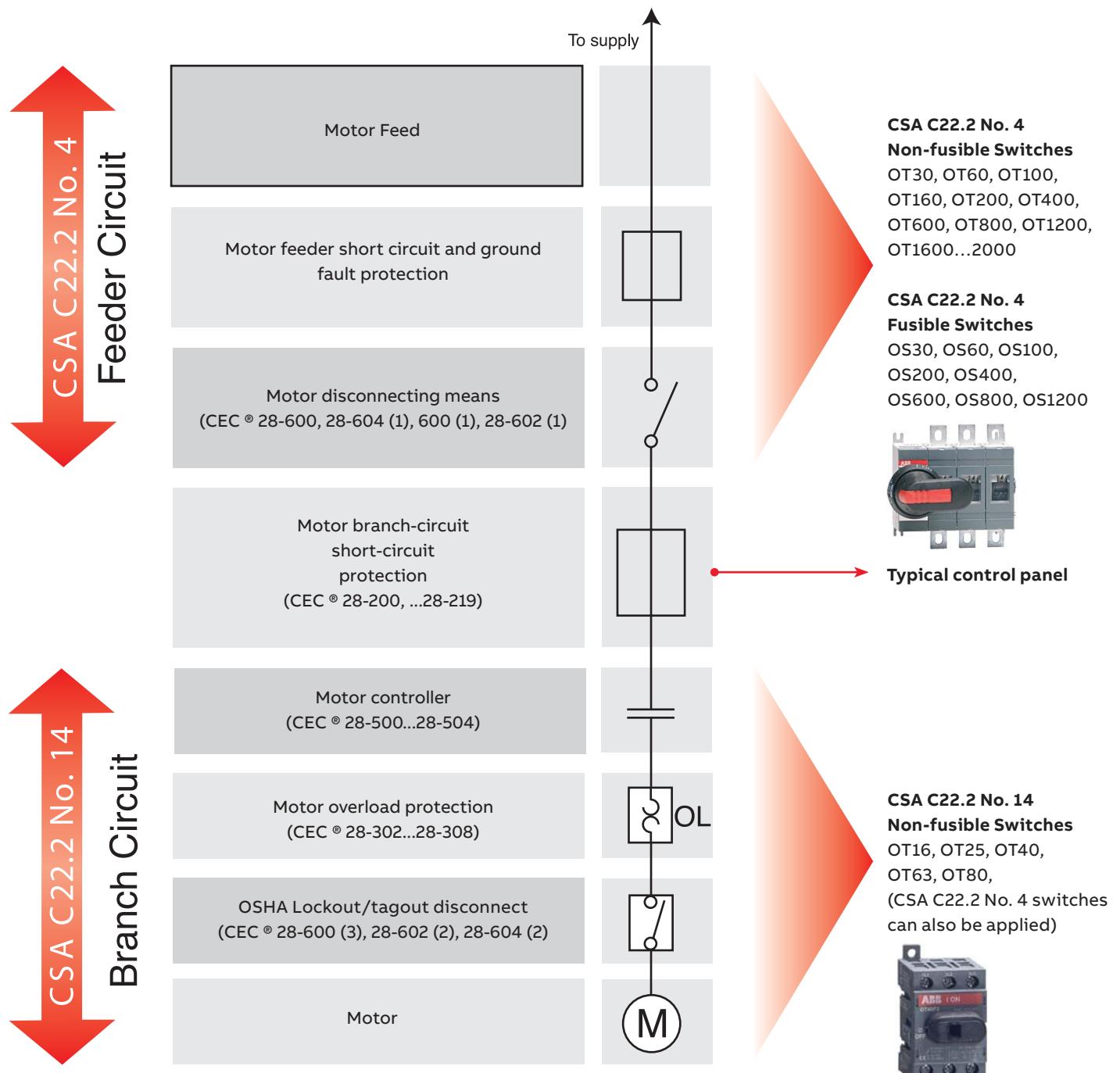
#### Utilization categories

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
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## Ordering information:

Manual disconnect switches OT16-160	2/10
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# 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 <sup>1)</sup>	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 UL98				
	4 pole	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL508	cULus Listed UL98				
Technical ratings - UL,CSA <sup>2)</sup>	V	600	600	600	600	600	600	600	600	600
Max operating voltage	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 <sup>2)</sup>	V	750	750	750	750	750	750	750	750	1000
Rated insulation and operational voltage. AC20 and DC20										
Rated thermal current, I	A	25	32	40	63	80	40	63	115	160
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	A	16	25	40	63	80	40	63	100	160
≤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 <sup>3)</sup>	3 pole	kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36
Dimension	3 pole	H mm	68	68	68	91	91	100	100	100
		W mm	35	35	35	53	53	70	70	70
		D mm	56	56	56	72	72	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		—	—	—	—	—	—	—	—	—

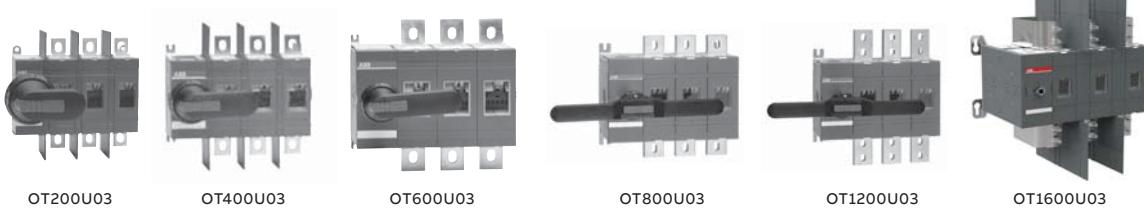
1) cULus Listed, UL508 CSA C22.2 No.14 File No E63822, UL98 CSA C22.2 No.4 File No E101914

2) For complete technical information please see pages 2/26 - 2/31

3) Disconnect only

# General information

## Selection guide, OT200 - 2000



Catalog number	3pole	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OT1600U03	OT2000U03
General purpose amp rating	A	200	400	600	800	1200	1600	2000
Approvals <sup>1)</sup>								
2 pole	cULus Listed UL98	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	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	cULus Listed UL98
Technical ratings - UL,CSA <sup>2)</sup>	V	600	600	600	600	600	600	600
Max operating voltage								
Max horsepower rating	HP	75	125	200	200	—	—	—
Three phase								
240V	HP	150	250	450	500	—	—	—
480V	HP	200	350	500	500	—	—	—
600V	HP	—	—	—	—	—	—	—
Single phase								
120V	HP	—	—	—	—	—	—	—
240V	HP	—	—	—	—	—	—	—
Technical ratings - IEC <sup>2)</sup>	V	1000	1000	1000	1000	1000	—	—
Rated insulation and operational voltage. AC20 and DC20								
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 <sup>3)</sup>								
Weight	3 pole	kg	1.2	2.2	5.2	15.2	49	49
Dimension	3 pole	H mm	508	600	600	1220	700	546
		W mm	407	350	700	610	900	490
		D mm	178	200	300	305	400	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"					
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					
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 <sup>1)</sup>

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)

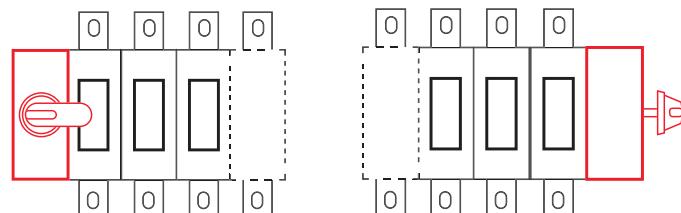
### Pole configuration table, OT160G

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<sup>1)</sup>

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

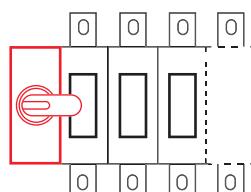
### Pole configuration table

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.

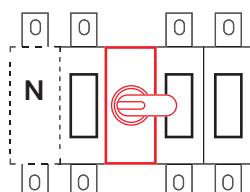
#### Front operated

Configuration 03, 04:



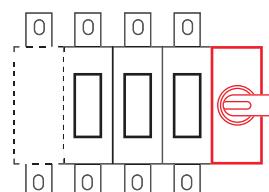
#### Front operated

Configuration 12, 22:



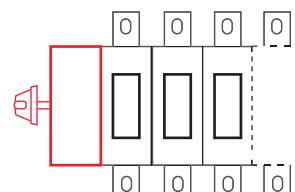
#### Front operated

Configuration 30, 40:



#### Side operated

Configuration 03, 04:



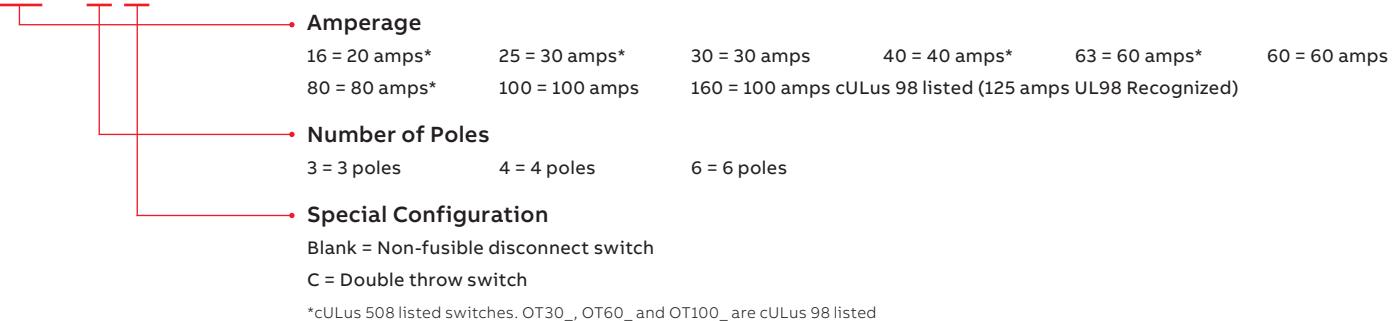
<sup>1)</sup> Some switches are not available in all configurations. Please consult ABB sales office for additional information.

# Selection information

## Standard part number designation

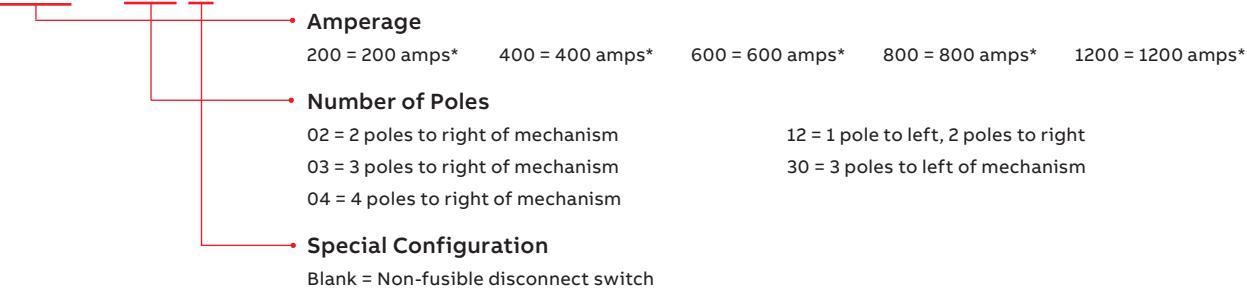
Non-Fusible OT Switches (16 to 100A)

### OT 16 F 3 C



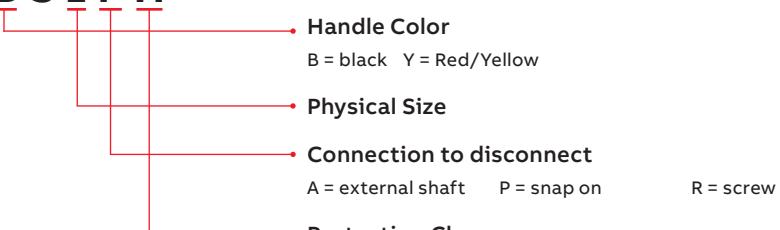
Non-Fusible OT Switches (200A and above)

### OT 200 U 03 C



## Selector Handles

### OHB S 1 P H



## Pistol Handles

### O H B 65 J 6 E011



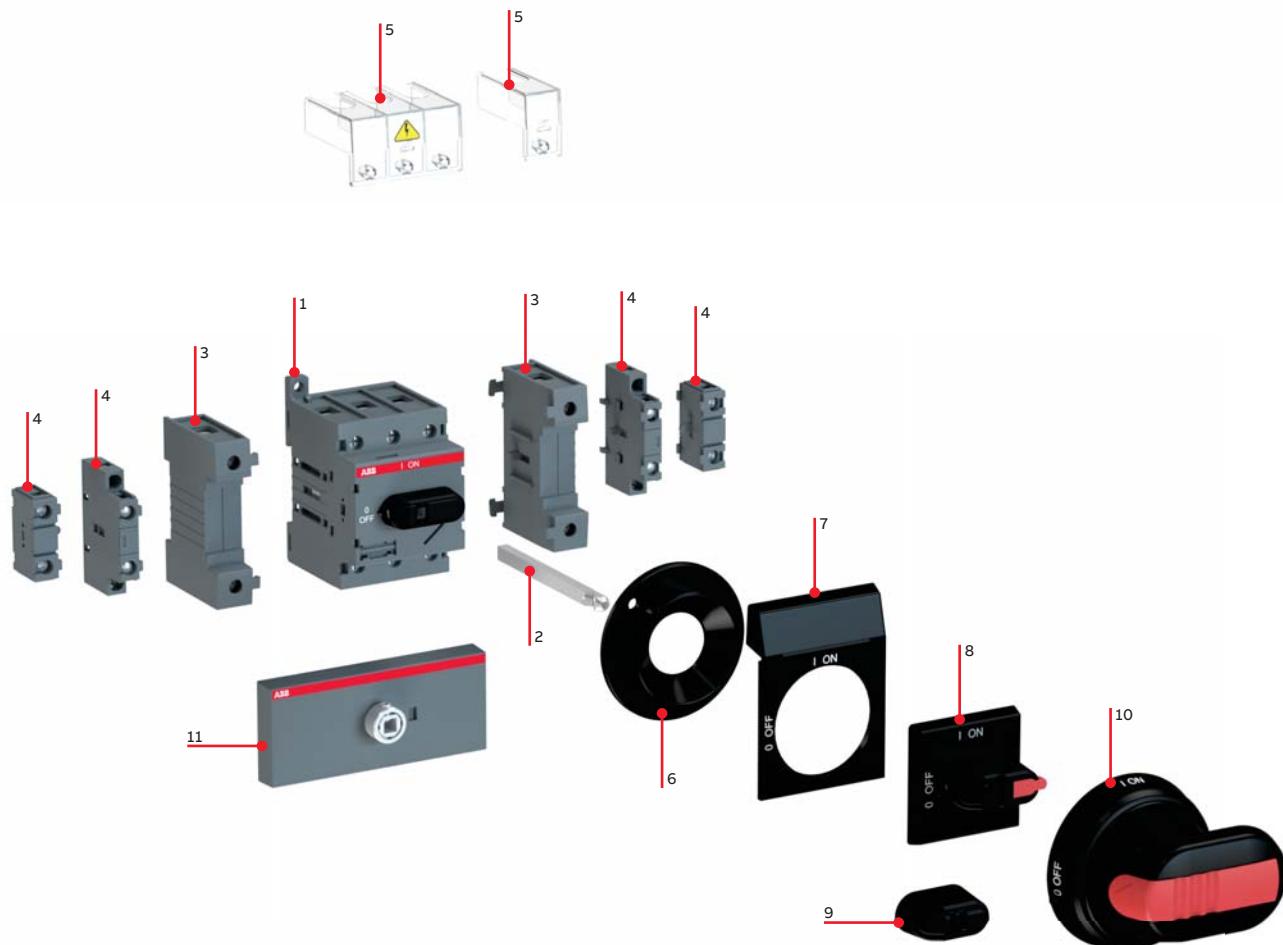
# Manual disconnect switches OT16...160

## Ordering information

<sup>1)</sup>Accessory guide for OT16F...100F  
(base and DIN-rail mounted disconnect switches)

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

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



<sup>1)</sup> Lugs are integral in OT16F...OT160G switches.

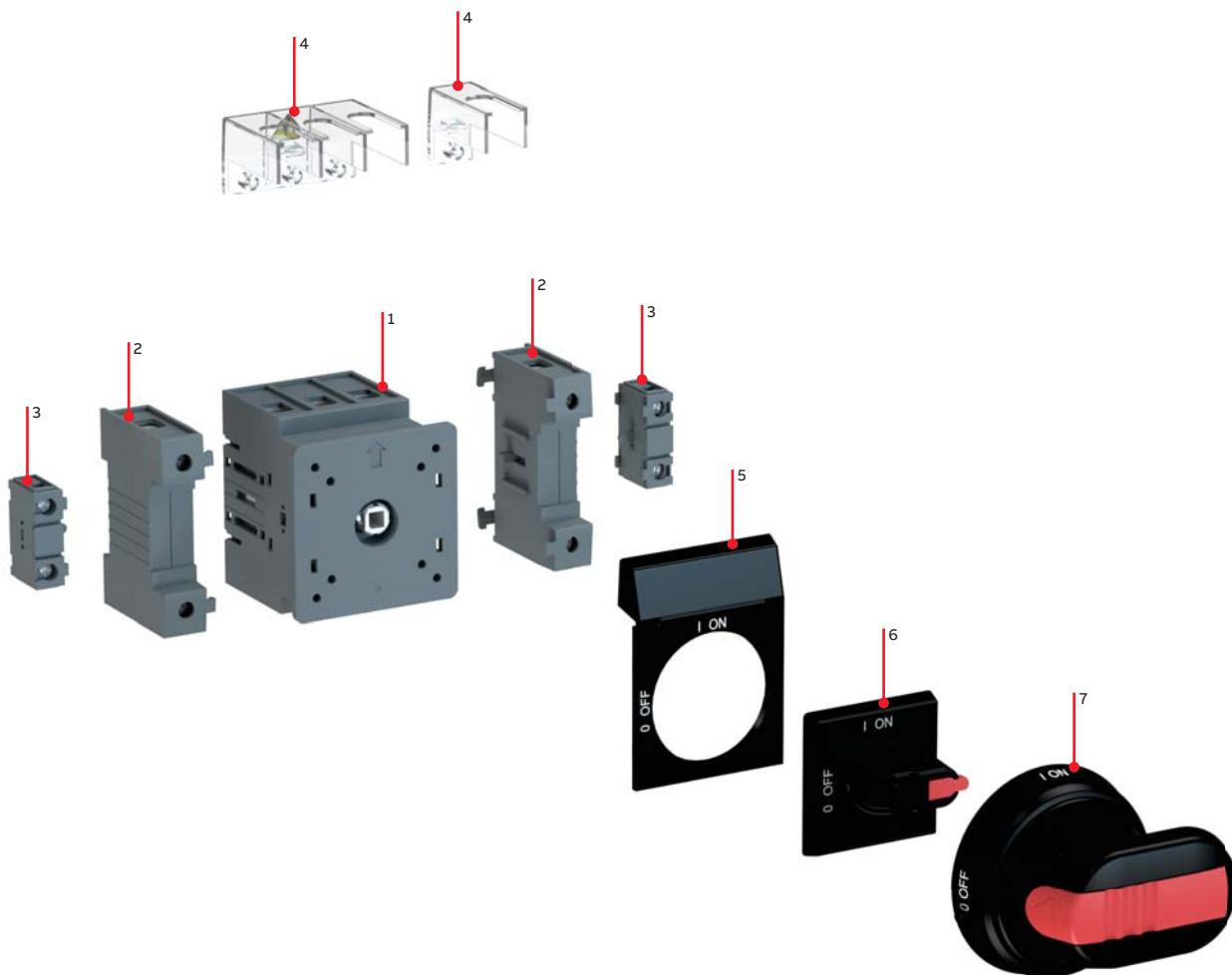
# Manual disconnect switches OT16...160

## Ordering information

<sup>1)</sup>Accessory guide for OT16FT...100FT  
(door mounted disconnect switches)

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

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



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

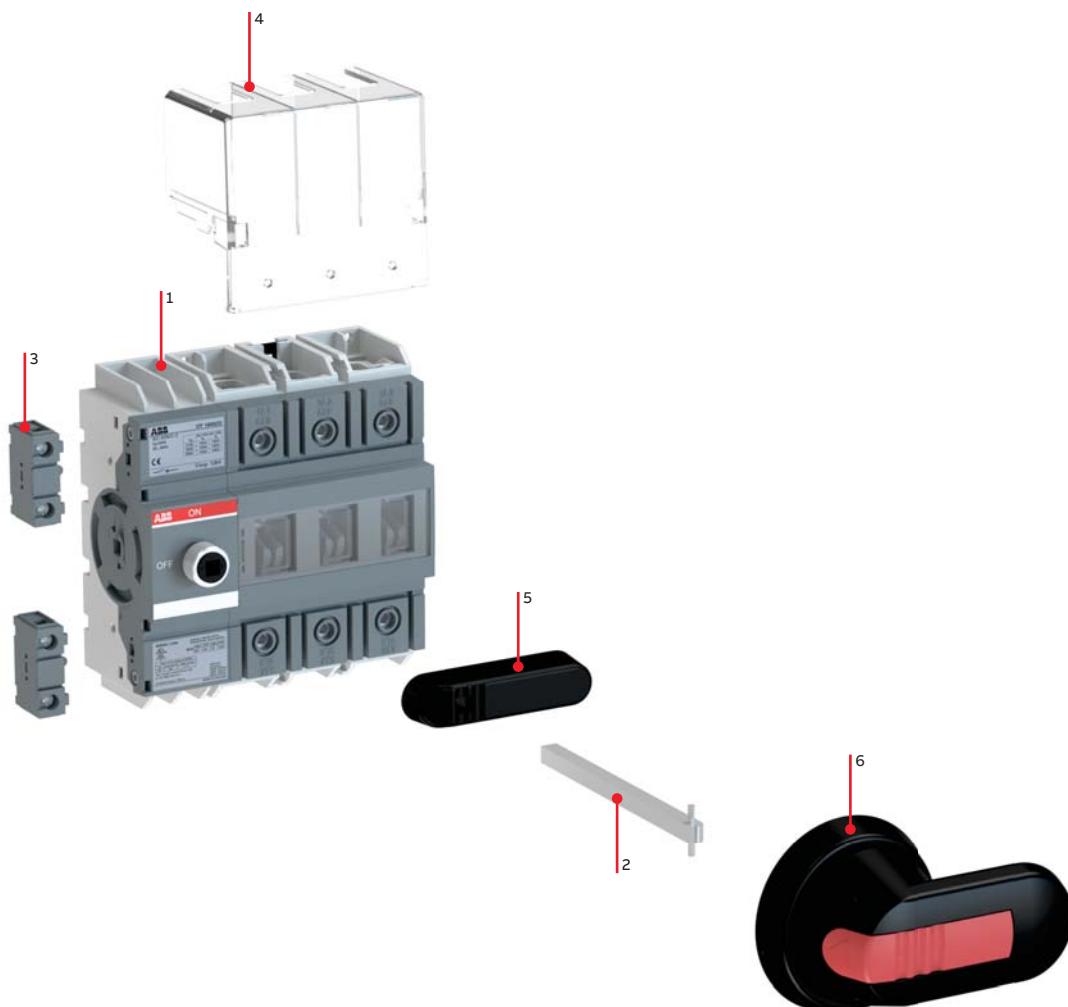
# Manual disconnect switches OT16...160

## Ordering information

### <sup>1)</sup>Accessory guide for OT160G (band and DIN-rail mounted disconnect switches)

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

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



1) Lugs are integral in OT160G switches.

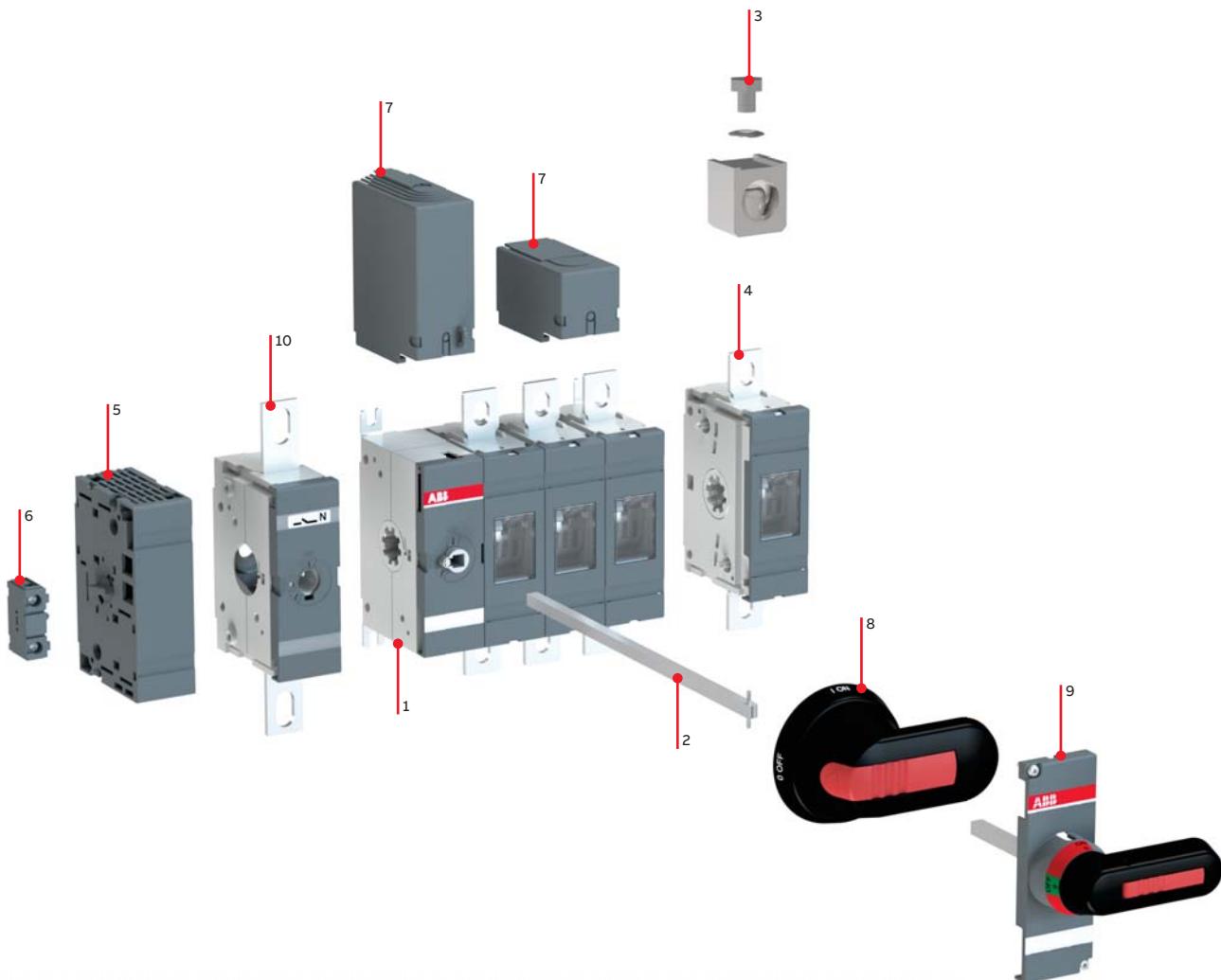
# Manual disconnect switches OT200...2000

## Ordering information

### Accessory guide for OT200...1600

- |                                 |                                  |
|---------------------------------|----------------------------------|
| 1. Disconnect switch            | 6. Auxiliary contact             |
| 2. Extented shaft               | 7. Terminal shroud <sup>1)</sup> |
| 3. Lugs                         | 8. Pistol handle                 |
| 4. Fourth pole                  | 9. Direct mounting handle        |
| 5. Module for auxiliary contact | 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\_

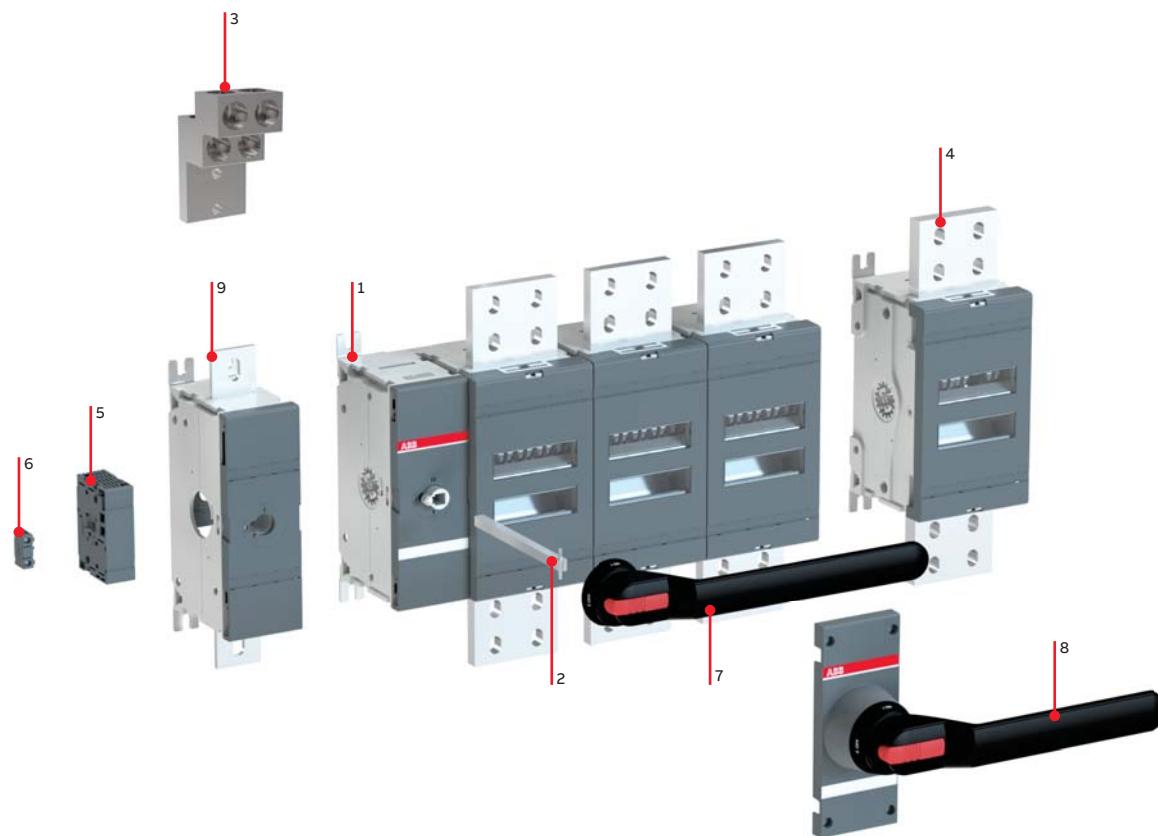
# Manual disconnect switches OT200...2000

## Ordering information

### Accessory guide for OT2000

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

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



# 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

### <sup>1)</sup>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			Type	Weight/unit	
		240VAC	3-phase [HP]	600VAC		[kg]	[lb]
3 <sup>2)</sup>	20	5	10	10	OT16F3	0.11	0.24
4	20	5	10	10	OT16F4N2 <sup>4)</sup>	0.14	0.31
3 <sup>2)</sup>	30	7,5	15	20	OT25F3	0.11	0.24
4	30	7,5	15	20	OT25F4N2 <sup>4)</sup>	0.14	0.31
3 <sup>2)</sup>	40	10	20	25	OT40F3	0.11	0.24
4	40	10	20	25	OT40F4N2 <sup>4)</sup>	0.14	0.31
3 <sup>2)</sup>	60	15	30	30	OT63F3	0.27	0.60
4	60	15	30	30	OT63F4N2 <sup>4)</sup>	0.3	0.66
3 <sup>2)</sup>	80	20	40	40	OT80F3	0.27	0.60
4	80	20	40	40	OT80F4N2 <sup>4)</sup>	0.3	0.66
3 <sup>2)</sup>	30	10	20	30	OT30F3	0.36	0.79
4	30	10	20	30	OT30F4N2 <sup>4)</sup>	0.5	1.10
3 <sup>2)</sup>	60	20	40	40	OT60F3	0.36	0.79
4	60	20	40	40	OT60F4N2 <sup>4)</sup>	0.5	1.10
3 <sup>2)</sup>	100	30	50	50	OT100F3	0.36	0.79
4	100	30	50	50	OT100F4N2 <sup>4)</sup>	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

### <sup>3)</sup>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			Type	Weight/unit	
		240VAC	3-phase [HP]	600VAC		[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:<sup>2)</sup>

- 1 disconnect
- 1 handle

**Front operated non-fusible disconnect switches, door mounting<sup>1)</sup>, UL/CSA**  
Handle and shaft not included.



OT16...40FT3



OT63...80FT3



OT30...100FT3



OT30...100FT4N2

Number of poles	Ampere rating [A]	Horsepower rating 3-phase [HP]				Type	Weight/unit	
		240VAC	480VAC	600VAC	[kg]		[kg]	[lb]
3	20	5	10	10	OT16FT3	0.13	0.29	
4	20	5	10	10	OT16FT4N2 <sup>3)</sup>	0.16	0.35	
3	30	7.5	15	20	OT25FT3	0.13	0.29	
4	30	7.5	15	20	OT25FT4N2 <sup>3)</sup>	0.16	0.35	
3	40	10	20	25	OT40FT3	0.13	0.29	
4	40	10	20	25	OT40FT4N2 <sup>3)</sup>	0.16	0.35	
3	60	15	30	30	OT63FT3	0.28	0.62	
4	60	15	30	30	OT63FT4N2 <sup>3)</sup>	0.35	0.77	
3	80	20	40	40	OT80FT3	0.28	0.62	
4	80	20	40	40	OT80FT4N2 <sup>3)</sup>	0.35	0.77	
3	30	20	40	40	OT30FT3	0.44	0.97	
4	30	20	40	40	OT30FT4N2 <sup>3)</sup>	0.56	1.23	
3	60	20	40	40	OT60FT3	0.44	0.97	
4	60	20	40	40	OT60FT4N2 <sup>3)</sup>	0.56	1.23	
3	100	30	50	50	OT100FT3	0.44	0.97	
4	100	30	50	50	OT100FT4N2 <sup>3)</sup>	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 <sup>4)</sup>	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<sup>1)2)</sup> 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.

Number of poles	Rated operational currents [A]			Weight/unit		
	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	OT160G04P	1.4	3.09
4	100	125	160/160	OT160G30	1.4	3.09
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<sup>3)</sup>. Front and side operation is possible with the same handle and shaft.

Number of poles	Rated operational currents [A]			Weight/unit		
	UL98 Listed, 600 V	UL 98 Recognized, 600 V	AC22A/ AC23A, 690 V	Type code	[kg]	[lb]
<b>Door mounted versions</b>						
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]				Weight/unit		
		240VAC	480VAC	600VAC	Type	[kg]	[lb]	
<b>Handle (NEMA 1, 3R, 12, IP65) and shaft have to be ordered separately</b>								
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]			Type	Weight/unit	
		240VAC	480VAC	600VAC		[kg]	[lb]
<b>Handle and shaft have to be ordered separately</b>							
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
<b>Direct mount handle included</b>							
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:

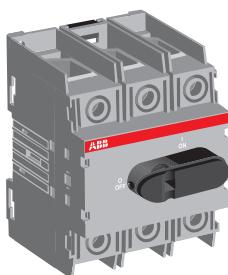
- OT200, 400, 600: UL 98, CSA 22-2 No. 4
- IEC 60947-3

## 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



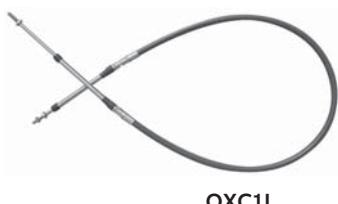
### Flange Operated (cable) - 3 poles

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



### 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



### Flexible cables <sup>1)</sup>

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

<sup>1)</sup> Cable can not be cut and resized

## Special configurations

Accessories for flange operated disconnects  
30 - 1200A

### Terminal lug kits



OTS\_G\_L

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



OTS\_G\_S

### 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



OZXA200



OZXA400



OZXA800



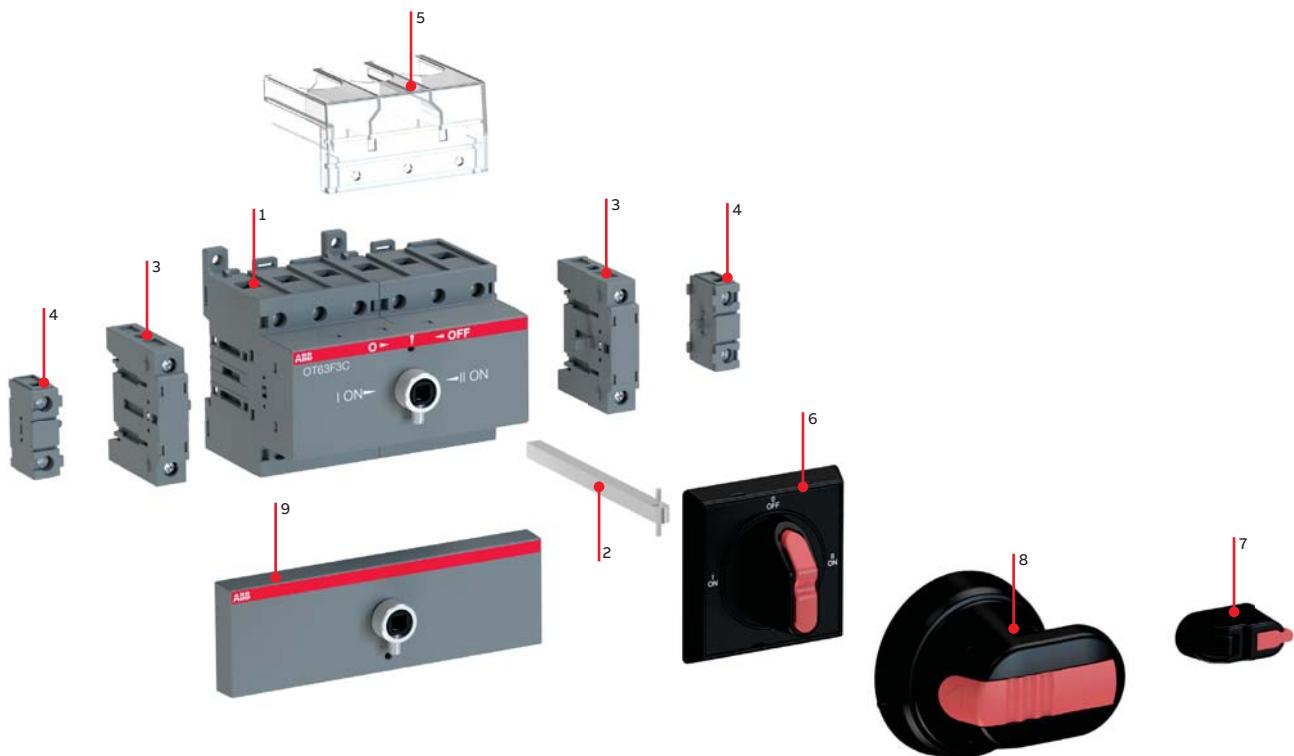
OZXA1200

# Manual change-over switches

Ordering information for OT16...OT100\_C

## Manual change-over switch accessory guide

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

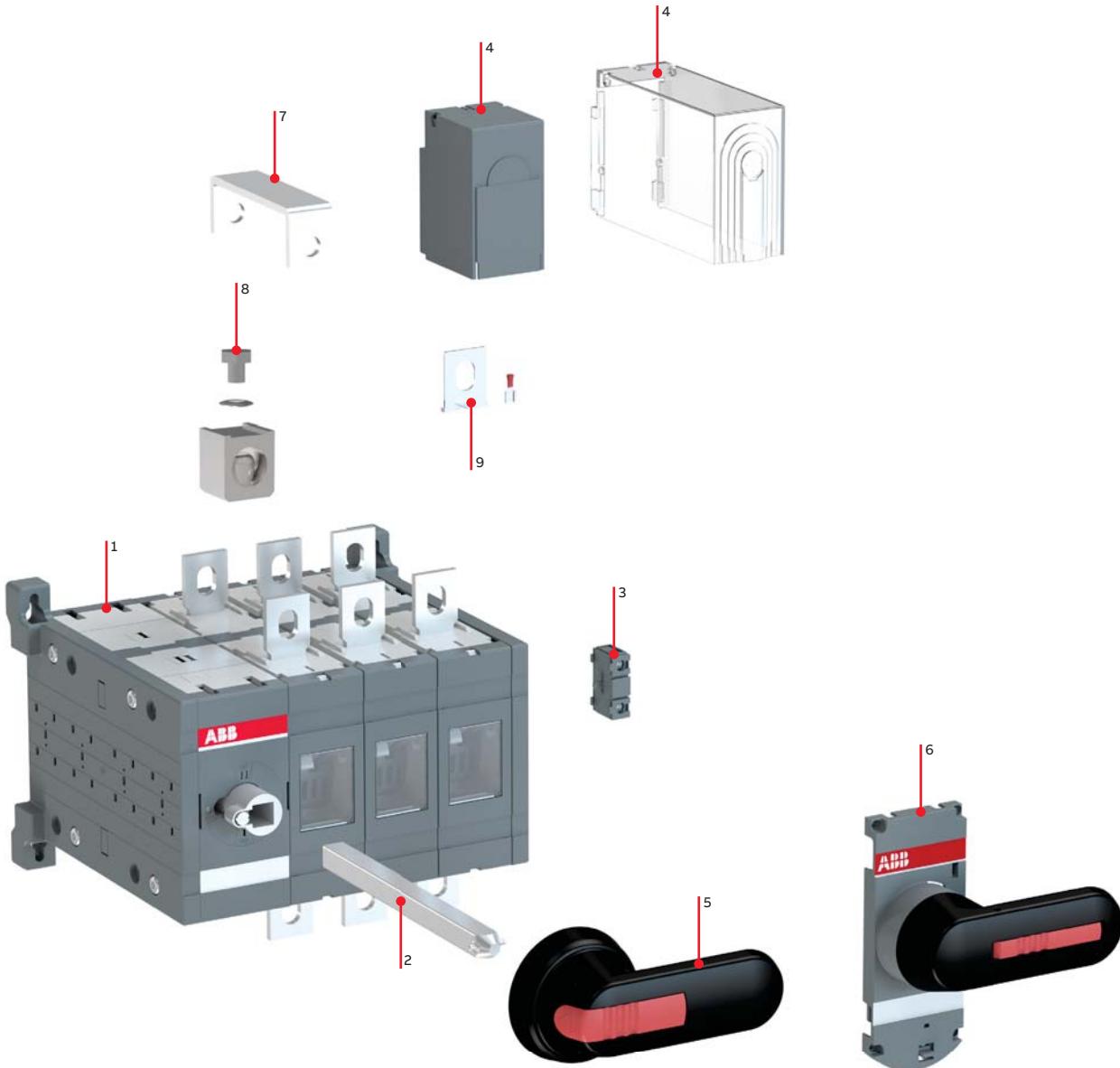


# Manual change-over switches

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

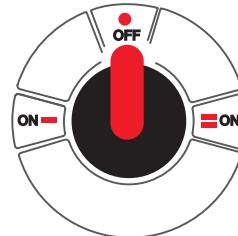
## Ordering information for OT16...OT100F\_C



OT16, OT25, OT40F3C

### 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.



OT63...80F3C



OT100F3C

#### Direct operation:



OHBS3



OHBS9

#### External operation:



OHBS2AJE011



OHB45J6E311

#### Rated current and power

##### AC-21A/AC-22A      AC-23A

No. of poles	AC-21A/AC-22A		AC-23A		Type	Weight/unit [kg]
	$\leq 415V$	400V	$400\ldots 415V$	I[A]/P[kW]		
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 [mm<sup>2</sup>]

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



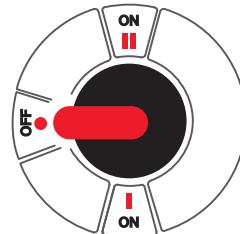
OT400U04CP



OT600U03CP



OT800U03CP + OHB200J12PE011



**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.

## Rated current and power

No. of poles	UL98	IEC60947-3	IEC60947-6-1	Type	Units/ type [pcs]	Weight/ unit [kg]
	600V	≤415V	≤415V			
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 <sup>1)</sup>	940 <sup>1)</sup>	1600/1000	OT1200U03CP	1	51
4	940 <sup>1)</sup>	940 <sup>1)</sup>	1600/1000	OT1200U04CP	1	63

## 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

<sup>1)</sup> OT1200U\_C is not UL approved product. It is cURus recognized product 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	
	Compliance	UL508	UL508	UL508	UL508	UL508	UL98	UL98	UL98	CSA C22.2 No.14	
										No.14	
General purpose	pf= 0.7...0.8	-40° to 40 °C	A	20	30	40	60	80	30	60	
amp rating										100	
Max. operating voltage	V	600	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	
	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	
		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	
	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	
		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	
		480 V	HP/A	5/14.0	7.5/21.0	10/26.0	15/34.0	20/44.0	-	-	
		600 V	HP/A	7.5/16.0	10/20.0	15/27.0	15/27.0	20/38.5	-	-	
Short circuit rating with fuse	Maximum fuse size		30	60	30	60	30	60	100	150	60
	Fuse type J	kA	10	10	10	10	10	100	100		200
	Fuse type T	kA	10	10	10	10	10	100	100		200
	Fuse type RK1	kA	10		10		10				
	Fuse type RK5*	kA	5	5	5	5	5	10	5	10	5
	Fuse type L	kA							5		
	Fuse type H	kA							5		
<b>Endurances</b>											
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	6 000
Mechanical endurance		operations	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000
Terminal lugs			integrated	integrated							
Copper wire range	60-75 °C	AWG	18-8	18-8	18-8	14-4	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.)	50 kA	kA	6.5	6.5	6.5	13	13	16.5	16.5	16.5
$I_{cc}$ (r.m.s.) and corresponding max. allowed cut-off current $i_c$ . The cut-off current $i_c$ refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	Max. OFA_fuse size gG/aM	415 V	A	40/32	40/32	40/32	100/80	100/80	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
Rated short-time withstand current $I_{cw}$	r.m.s.-value	690 V, 1 s	kA	0.5	0.5	0.5	1	1.5	2.5	2.5
Rated short circuit making capacity	Peak value	690 V/500 V	kA	0.71	0.71	0.71	1.4	2.1	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
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
<b>Endurances</b>					
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 and temporarily 40 °C	In open air	A	160		
...with minimum cable or bar cross section	In enclosure	A	160		
	Cu	mm <sup>2</sup>	70		
Rated operational voltage AC-20 and DC-20		V	1 000		
Rated operational current, AC-21A, AC-22A, AC-23A	up to 415 V	A	160		
	500 V	A	160		
	690 V	A	160		
Rated operational current / poles in series for DC-21A, DC-22A, DC23A	Up to 220 V	A	160/2		
	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 max. allowed cut-off current, peak value.	at prospective SC-current max. OFA_ fuse size gG / aM	100 kA, 500 V	kA	30	
The cut-off currents refer to single phase fuse tests according to fuse manufacturers declarations. For combination starters, see coordination tables.			A	200/200	
		50 kA, 690 V	kA	24	
			A	200/200	
Rated short-time withstand current	R.M.S.-value I <sub>cw</sub>	690 V	0,25s	kA	7
		690 V	1s	kA	4
Rated short-circuit making capacity	Peak value I <sub>cm</sub>	690 V		kA	12
Rated capacitor power when no initial charge on the capacitor	Capacitor ratings limited by fuse links	415 V		kVAr	65
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	mm <sup>2</sup> / 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	UL98	UL98	UL98	UL98				
	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4				
<b>Technical data according to UL/CSA AC Ratings</b>									
General purpose amp rating pf= 0.7...0.8	-40° to 40 °C	A	200	400	600	800	1 200		
Max. operating voltage		V	600	600	600	600	600		
Max. horsepower rating / max. motor FLA current	pf= 0.4...0.5	240 V Three phase 480 V 600 V	HP/A	75/192.0 150/180.0 200/192.0	125/312.0 250/302.0 350/336.0	200/480 450/515.0 500/472.0	200/602 480/590 500/472		
Short circuit rating with fuse	Fuse type J T	ka	200	100	100	100			
	Fuse type RK5 L	ka			100	100	100		
Maximum fuse size		A	200	350	600	600	800	800	1 200
Current rating	at 250 VDC at 600 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		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			
	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

Technical data according to IEC 60947	Switch type					
	OT200U	OT400U	OT600U	OT800U	OT1200U	
Rated insulation voltage and rated operational voltage AC20/DC20	V	1 000	1 000	1 000	1 000	1 000
Pollution degree 3						
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 $i_c$ . The cut-off current $i_c$ 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
Rated short circuit making capacity	Peak value $I_{cm}$	500/690 V	kA	30	65	80
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
	4-pole	kg/lb	1.5/3.31	2.8/6.17	6.4/14.11	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	
			OT1600U	OT2000U
Technical data according to UL/CSA	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	pf=0.7...0.8 Single and three phase	A	1 600	2 000
Voltage rating		V	600	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		Oper.cycles	500	500
Mechanical endurance	Divide by two for operation cycles	Oper.	2 500	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	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
Standard handle				
Terminal bolt size	Metric thread diameter x lenght	mm	M12x60 (included)	M12x60 (included)
Terminal bolt tightening torque	Counter torque required	Nm / lb.in	50 / 443	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

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# 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.

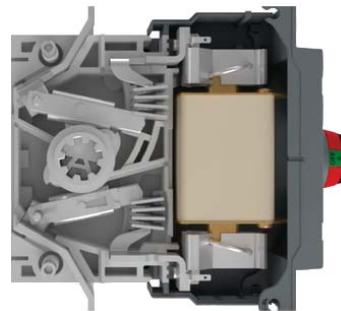
In addition to industrial, business and residential buildings, these fusible disconnect switches are regularly used in industrial cranes and hoists to isolate and protect the motors. OS fusible disconnect switches may also be found protecting stored energy and battery packs from potential short circuits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

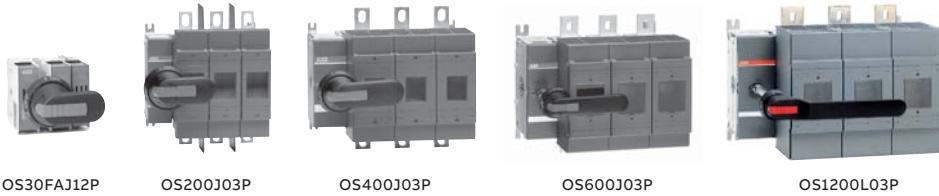
The interlocking fuse covers prevent opening while the switch is in "ON" position. The fusible disconnect switches have contacts on both sides of the fuse. The fuses are totally isolated in the "OFF" position, reducing the risk of electric shock to authorized personnel.



Interlocking fuse covers

# Selection guide

## OS30 - 1200



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 <sup>1)</sup>	2 pole N/A	N/A	UL98 & IEC	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	UL98 & IEC
	4 pole UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC
<b>Technical ratings - UL,CSA</b>										
Max operating voltage	V 600	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	
<b>Technical ratings - IEC</b>										
Rated insulation and operational voltage. AC20 and DC20	V 1000	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	
<b>Physical characteristics</b>										
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
<b>Accessories</b>										
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"	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<sup>1)</sup>

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 Length  
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)

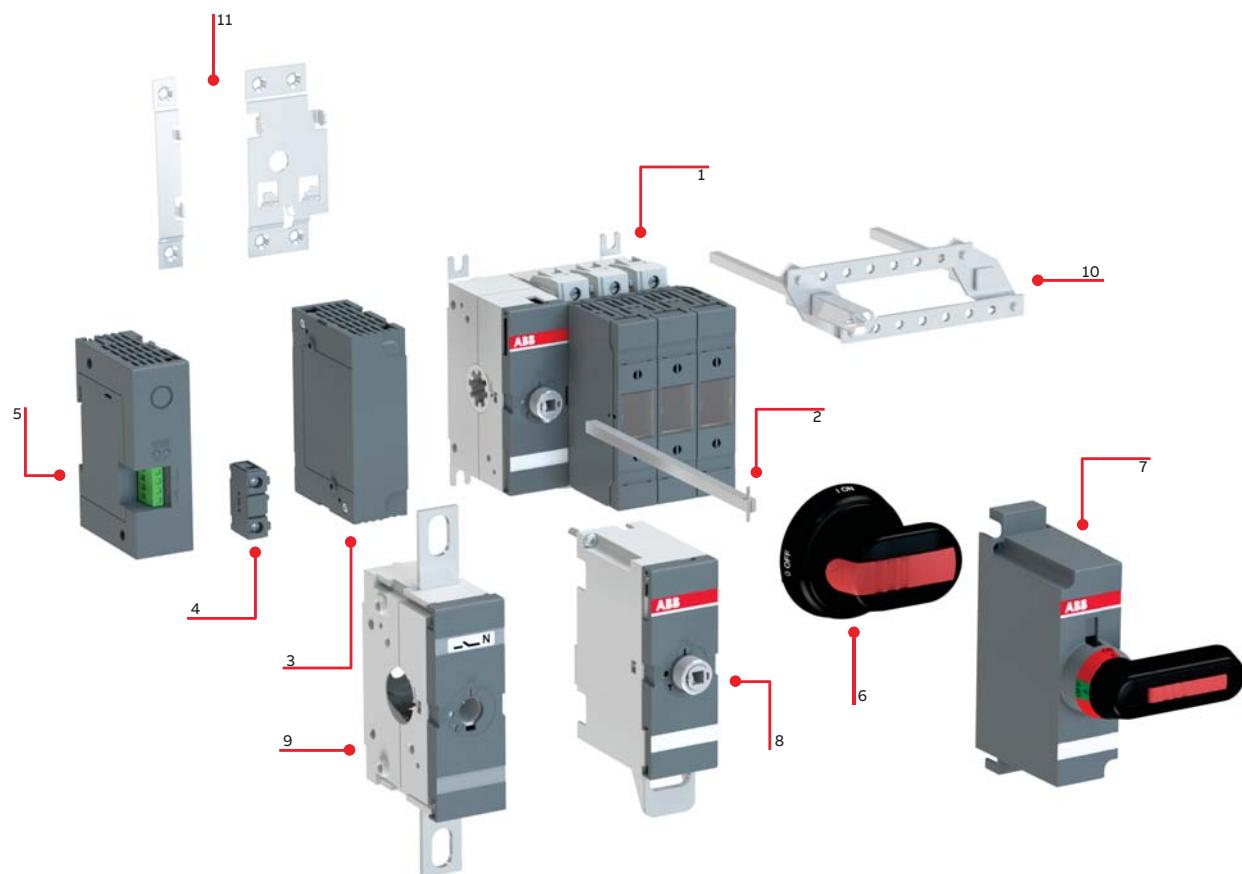
<sup>1)</sup> Part designation keys are provided for reference only. Not all variations or configurations are available.

# Manual operated fusible disconnect switches OS30FA\_, OS60G

## Selection overview

### Accessory guide for OS60G<sup>1)</sup>

- |                                  |                           |
|----------------------------------|---------------------------|
| 1. Fusible disconnect switch     | 10. Conversion kit        |
| 2. Shaft                         | 11. DIN rail mounting kit |
| 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       |                           |



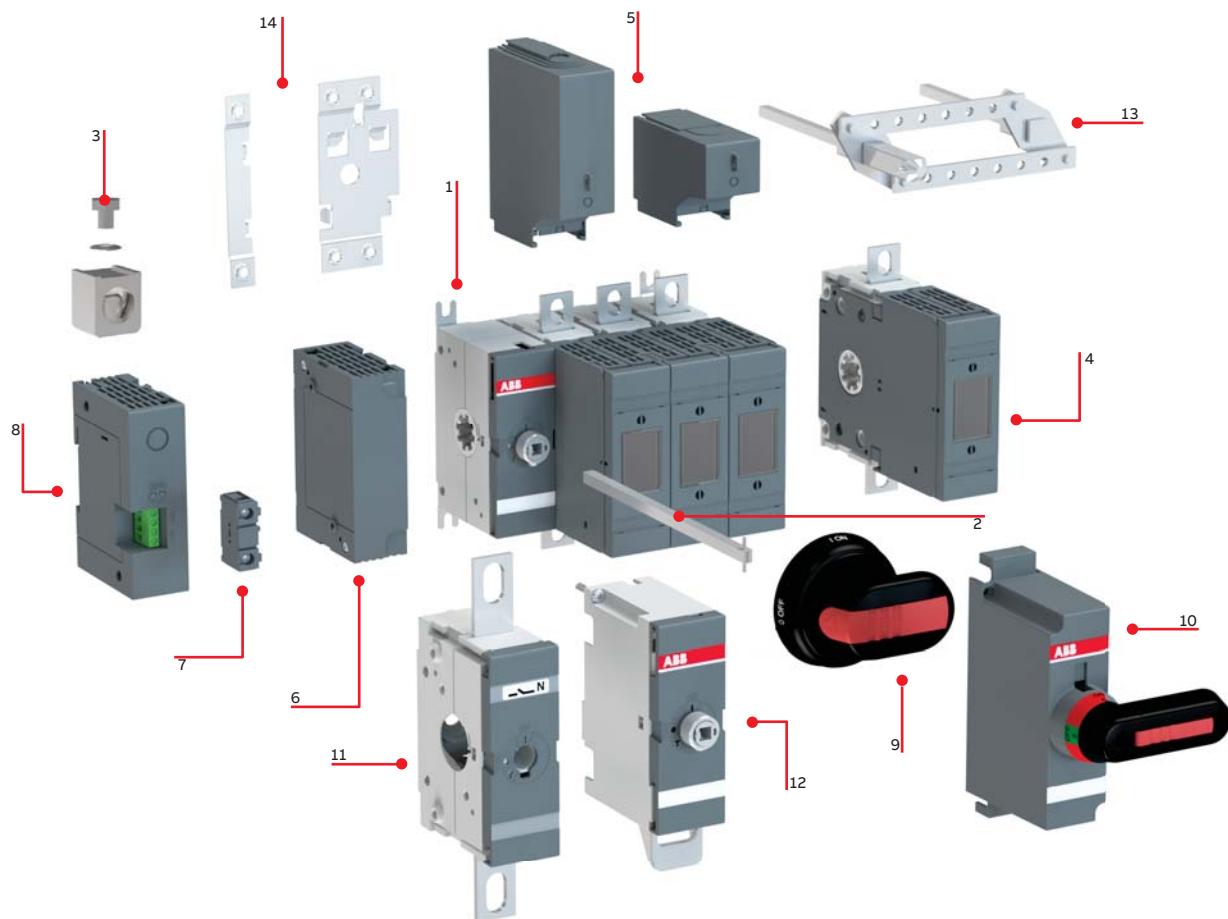
<sup>1)</sup> Lugs for OS30FA\_ and OS60GJ\_ switches are integral

# Manual operated fusible disconnect switches 100...1200

## Selection overview

### Accessory guide for OS100...1200

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



# 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...10mm<sup>2</sup>, (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
<b>Shaft and handle not included</b>			
30	CC, 30 A	3	OS30FACC12
30	CC, 30 A	4	OS30FACC22F
30	J, 30 A	3	OS30FAJ12
630	J, 30 A	4	OS30FAJ22F
<b>With 150mm shaft and external handle OHB65J6</b>			
30	CC, 30 A	3	OS30FACC12P
30	J, 30 A	3	OS30FAJ12P
30	J, 30 A	4	OF30FAJ22FP

#### Side Operated

<b>Shaft and handle not included</b>			
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

### Manual operated fusible disconnect switches, J type, 60 A

Protected tunnel terminals, IP20, cable size 2.5...25mm<sup>2</sup>, (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
<b>Shaft and handle not included</b>			
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



OS60GJ04FP



OS60GJS40F

#### 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



OS60GJS30K

# Manual operated fusible disconnect switches, UL/CSA

## Ordering information for J type, 100 A



### 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
<b>Shaft and handle not included</b>			
100	J, 100 A	2	OS100GJ02
100	J, 100 A	3	OS100GJ03
100	J, 100 A	4	OS100GJ04F
<b>With 161mm shaft and external handle OHB65J6</b>			
100	J, 100 A	2	OS100GJ02P
100	J, 100 A	3	OS100GJ03P
100	J, 100 A	4	OS100GJ04FP
<b>With direct mount handle OSV200BK</b>			
100	J, 100 A	2	OS100GJ02K
100	J, 100 A	3	OS100GJ03K
100	J, 100 A	4	OS100GJ04FK



#### Side Operated

<b>Shaft and handle not included</b>			
100	J, 100 A	3	OS100GJS30
100	J, 100 A	4	OS100GJS40F
<b>With direct mount handle OHB65D6</b>			
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

### 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



OS200J03P

#### Front Operated

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



OS200J04FP

#### Side Operated

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



OS200J03K

# Manual operated fusible disconnect switches, UL/CSA

## Ordering information for J type, 400 A



OS400J03P

### 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



OS400J04FP



OS400J02P



OS400J04FP



OS400J03K



OS400J03P



OS400JS40FK

### Front Operated

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

### Side Operated

<b>Shaft and handle not included</b>			
400	J, 400 A	3	OS400JS30
400	J, 400 A	4	OS400JS40F
<b>With direct mount handle OHB95D12</b>			
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

### 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



OS600J03P

#### Front Operated

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



OS600J04FP

#### Side Operated

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



OS600JS30K

# 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
<b>Shaft and handle not included</b>			
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
<b>With 280mm shaft and external handle OHB145J12</b>			
800	L, 800 A	2	OS800L02P
800	L, 800 A	3	OS800L03P
800	L, 800 A	4	OS800L04FP
<b>With 395mm shaft and external handle OHB274J12</b>			
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

 OS60GJS30	 Handle OH_J_	 Shaft OXP_X_						
<b>Side operated fusible disconnects - 3 poles and 4 poles</b>								
UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating		Weight (Lbs.)		Catalog number		
Three phase		200V	208V	240V	480V	600V		
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
<b>Side operated fusible disconnects with direct mount handle - 3 poles and 4 poles</b>								
UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating		Weight (Lbs.)		Catalog number		
Three phase		200V	208V	240V	480V	600V		
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
<b>Handles</b>								
UL/NEMA type	IEC type	Color	Lenght (inches/mm)	Marking	Defeatable	Padlockable	Weight	Catalog number
<b>For use with OS30FA_S_, OS60GJS_, OS100GJS_, OS200JS_</b>								
1, 3R, 12	IP65	Black Red/Yel	2.6/65	OFF/ON	Yes	Yes	0.29	OHB65J6E00S OHY65J6E00S
<b>For use with OS400JS_ and OS600JS_</b>								
1, 3R, 12	IP65	Black Red/Yel	5.71/145	OFF/ON	Yes	Yes	0.35	OHB145J12E00S OHY145J12E00S
<b>Shaft</b>								
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	
<b>Terminal lug kits</b>								
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



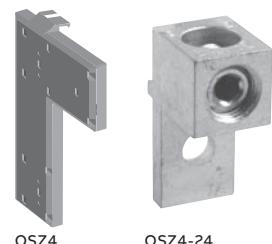
OS30FAJ\_



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	240V	480V	600V	Maximum horsepower rating	Catalog number
30	J	7.5	15	20		Three phase	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_ & OS60-100G_	Aux. Contact	1 NO	Up to 4 aux. contacts	1	OA1G10
	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	1	OSS160GG1L/3
			Single Pole Short type shroud, 3 pcs	1	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.

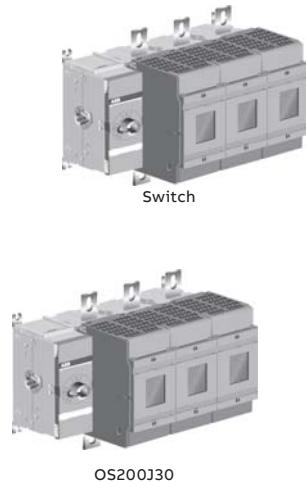
NFPA 79 requires main disconnecting means to be operable without the use of accessory tools or devices, independent of door position. This code also includes an interlocking provision to prevent the closing of disconnects while the enclosure door is open, unless an interlock is operated by a deliberate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



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



### 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<sup>2)</sup>

For use with:	Cable length (inches)	Catalog number
OS30FA_12, OS60GJ_, OS100GJ_, OS200J_	36	OXCL136
	48	OXCL148
	60	OXCL160
	72	OXCL172
	84	OXCL184
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 <sup>2)</sup>	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	600
		VDC	250	250	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	200
	UL/CSA fuse type	A	30	60	100	200	200
		J/CC	J	J	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	OZXA-200	OZXA-200
		AWG #18-8	#14-4	#14-4-2/0	#4-300MCM	#4-300MCM	#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	10
Rated impulse withstand voltage		kV	12				12
Rated thermal current in ambient 40°C / max. fuse power dissipation ...with minimum cable cross section	In open air	A/W	32/3.5	63/7.5	160/12	200/17	
	In enclosure	A/W	32/33.5	63/7.5	160/10,135/12	200/15	
		Cu	mm <sup>2</sup>	6	16	70	95
Derating, mounting on wall horizontal fuses	In open air or ventilated enclosure	%	0	0	0	0	0
	Totally enclosed	%	5	5	5	5	5
Derating, mounting on ceiling		%	10	10	10	10	10
Derating at 60°C	In open air / in enclosure	%	20/20	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 accurate for three-phase 1500 R.P.M standard asynchronous motors.	230 V	kW	7.5	18.5	45	60
		400 V	kW	15	30	75	110
		415 V	kW	15	30	75	110
		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	mm <sup>2</sup>	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, 3 and 4-pole types	UL/CSA fuse size UL/CSA fuse type		KA	200	200	200	200
			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 Lug mounting		lb.in	375	500	500	500
			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 / max. fuse power dissipation	In open air In enclosure	A/W	400/45	630/60	800/65	1250/110	
...with minimum cable cross section		A/W	400/30	570/50	720/55	1000/85	
	Cu	mm²	240	2x185	2x240	2x400	
Derating, mounting on wall horizontal fuses	In open air or ventilated enclosure Totally enclosed	%	0	0	4	4	
		%	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 accurate for three- phase 1500 R.P.M standard asynchronous motors.	230 V 400 V 415 V 500 V 690 V	kW	132 220 230 280 400	200 355 355 450 630	250 450 450 560 710	315 560 560 710 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		mA	14	20	20	
Built-in terminal size		Cu		mm²			
Fuse-links bolts tightening torque			Nm	20	40	40	40



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## 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

CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	1	12	4	4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number
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

CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	3R, 12			4, 4X, 12		
			Catalog number	Aux. contact	Handle Type	List price	Catalog number	Aux. contact
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	OTPL80FP	

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

CSA C22.2 No. 4 amp rating	HP 480V	HP 600V	1		12		4		4X Stainless	
			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

CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	Metal enclosure Nema 1			Metal enclosure Nema 3R, 12			Stainless steel Nema 4, 4X		
			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

CSA C22.2 No. 4 amp rating	HP 480V	HP 600V	Metal enclosure Nema 1			Metal enclosure Nema 3R, 12			Stainless steel Nema 4, 4X		
			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					EOT60U3S4-M	SS Pistol	
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 <sup>1) 2)</sup>

## 30 - 1200A

**Enclosure type**

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


**Accessories for eOT16 to eOT63**

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

	Plastic Enclosure type					
	3R, 12					
CSA C22.2 No. 14 amp rating	HP 480V	HP 600V	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 <sup>1) 2)</sup>

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 <sup>1)</sup>			
40	2	5	10	10	20	25	#18 - #8	Cu	CSA <sup>1)</sup>			
60	2	7.5	20	20	40	40	#14 - #4	Cu	CSA <sup>1)</sup>			
80	2	10	20	20	40	40	#14 - #4	Cu	CSA <sup>1)</sup>			
30	2	5	10	10	20	30	#14 - #4	Cu	CSA <sup>2)</sup>			
60	3	7.5	20	20	40	40	#14 - #4	Cu	CSA <sup>2)</sup>			
100	5	15	25	30	50	50	#8 - 1/0	Cu	CSA <sup>2)</sup>			
200	—	—	60	75	150	200	#4 - 300 kcmil	Cu/Al	CSA <sup>2)</sup>			
400	—	—	100	125	250	350	#2 - 600 kcmil	Cu/Al	CSA <sup>2)</sup>			
600	—	—	150	200	450	500	(2) #2 - 600 kcmil	Cu/Al	CSA <sup>2)</sup>			
800	—	—	200	250	500	500	(4) #2 - 600 kcmil	Cu/Al	CSA <sup>2)</sup>			
1200	—	—	—	—	—	—	(4) #2 - 600 kcmil	Cu/Al	CSA <sup>2)</sup>			

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		12		4		4X Stainless	
		Catalog number	List price	Catalog number	List price	Catalog number	List price	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

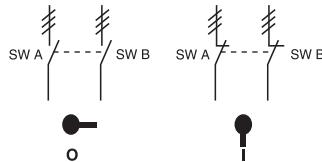
## Accessories

### Enclosed fusible disconnect switches

#### Conversion mechanisms

##### 6 pole<sup>2)</sup>

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

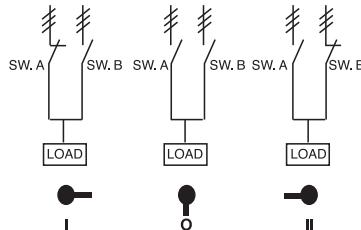


	POS. O	POS.I
SW. A	O	X
SW. B	O	X

X = Closed  
O = Open

##### Transfer<sup>1)2)</sup>

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 60°C (140°F). 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	
<b>Rated Voltage [V DC]</b>	600	600	600	600	600	600
<b>Rated current [A]</b>	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	
<b>Rated Voltage [V DC]</b>	600	600	600	600	600	600
<b>Rated current [A]</b>	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
<b>Rated Voltage [V DC]</b>	1000	1000	1000	1500	1000	1000	1000
<b>Rated current [A]</b>	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	OTDC250UF11	OTDC250UF22/	OTDC800U22
		OTDC250UFV02	OTDC250UFV11	OTDC250UFV22	
	OTDC200USV22	OTDC320UF02	OTDC320UF11	OTDC320UF22/	OTDC1000U22
		OTDC320UFV02	OTDC320UFV11	OTDC320UFV22	
		OTDC400UF02	OTDC400UF11	OTDC400UF22/	
		OTDC400UFV02	OTDC400UFV11	OTDC400UFV22	
		OTDC600UF02	OTDC600UF11	OTDC600UF22/	
		OTDC600UFV02	OTDC600UFV11	OTDC600UFV22	
<b>Rated Voltage [V DC]</b>	1500	1000/1500	1000/1500	1000/1500	1000
<b>Rated current [A]</b>	UL98B	100 - 200	250 - 320 - 400 - 600	250 - 320 - 400 - 600	250 - 320 - 400 - 600
	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
<b>Rated Voltage [V DC]</b>	1000/1500	1000/1500
<b>Rated current [A]</b>	UL98B IEC 60947	250 - 320 - 400 - 600 315 - 400 - 500 - 630
		250 - 320 - 400 - 600 315 - 400 - 500 - 630

**UL98B**  
File #E354681



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

Side operated disconnect switches 100...400 A, UL

**UL-types**  
**UL98B**  
File #E354681



OTDC100U20S	OTDC100US20S
OTDC200U20S	OTDC200US20S

<b>Rated Voltage [V DC]</b>	1000	1000
<b>Rated current [A]</b>	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<sup>1)</sup>

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

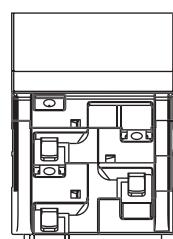
**4: Number of the poles<sup>2)</sup>**

2

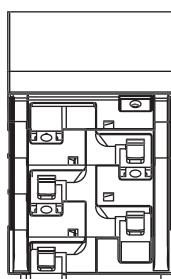
3

4

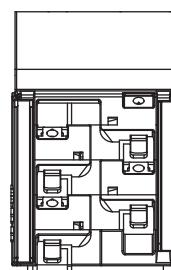
6



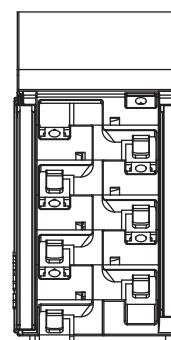
—  
2 pole version



—  
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<sup>2)</sup>

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

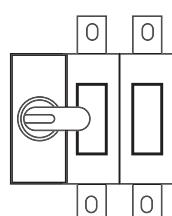
K: direct mount, front operation

S: Side operation (handle not included)

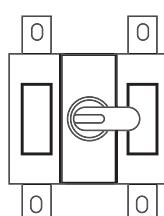
#### 7: Application

blank: PV application

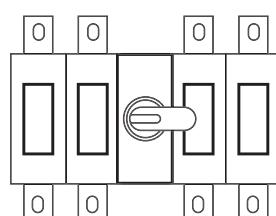
ESS: ESS application



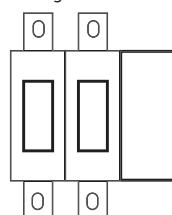
Configuration 02



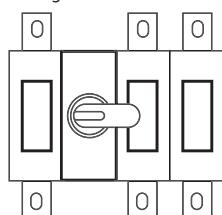
Configuration 11



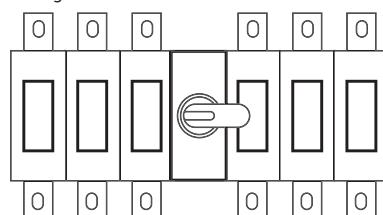
Configuration 22



Configuration 20 (side operated only)



Configuration 12



Configuration 33

1) Please consult catalogue ISCC301022C0201 - 2018.11 for dimensions, circuits, accessories.

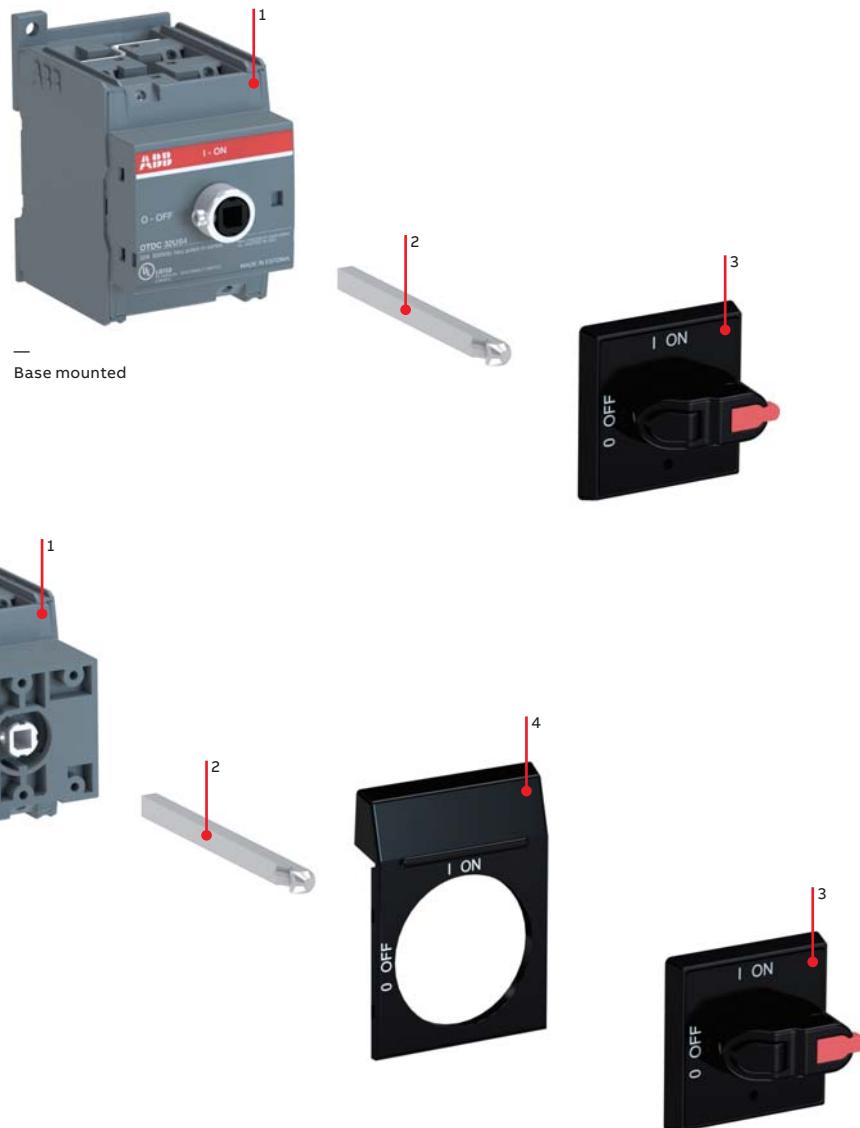
2) Some switches are not available in all configurations. Please consult ABB sales office for additional information.

# Ordering information, UL

## OTDC16...32, 1000 VDC

### DC disconnect switches accessory guide<sup>1)2)</sup>

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



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



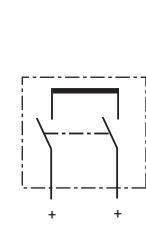
— OTDC16...32U4

#### Single circuit

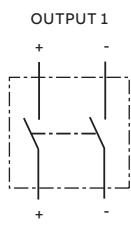
Number of poles	Rated operat. current [A]				Weight/ unit [kg]
	UL		IEC		
	600 VDC	660 VDC	1000 VDC	Type	
2	16	16	10	OTDC16U2	0.15
2	25	25	16	OTDC25U2	0.15
2	32	32	-	OTDC32U2	0.15
2	16	16	-	OTDC16US2	0.15
2	25	25	-	OTDC25US2	0.15

#### Double circuit

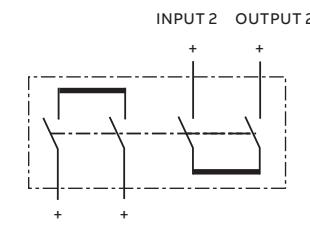
Number of poles	Rated operat. current [A]				Weight/ unit [kg]
	UL		IEC		
	600 VDC	660 VDC	1000 VDC	Type	
4	16	16	10	OTDC16U4	0.15
4	25	25	16	OTDC25U4	0.15
4	32	32	20	OTDC32U4	0.15
4	16	16	-	OTDC16US4	0.15
4	25	25	-	OTDC25US4	0.15
4	32	32	-	OTDC32US4	0.15



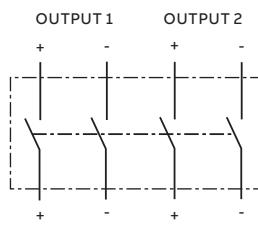
Single circuit, US types



Single circuit, U types



Double circuit, US types



Double circuit, U types

# Ordering information, UL

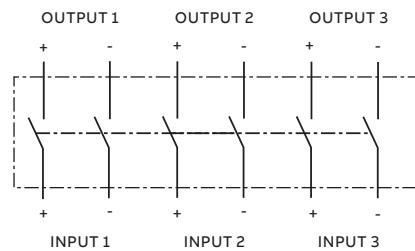
## OTDC16...32, 1000 VDC



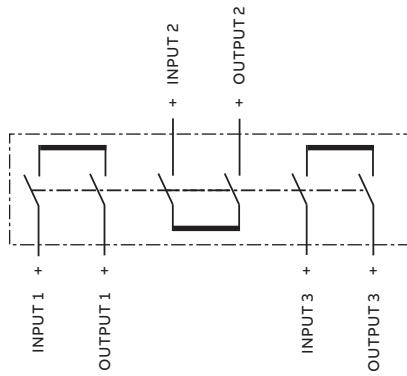
— OTDC16...32U6

**Triple circuit**

Number of poles	Rated operat. current [A]			Weight/ unit [kg]	
	UL	IEC			
	600 VDC	660 VDC	1000 VDC		
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...32UT2,  
OTDC16...32UST2



—  
OTDC16...32UT4,  
OTDC16...32UST4

### OTDC16...32U\_T door mounted switch

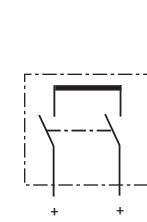
Touch-safe IP20 protected terminal clamps included. Types OTDC16...32UST include pre-mounted jumper OEZXY86. Shafts and handles to be ordered separately.

#### Single circuit - up to 1000 VDC

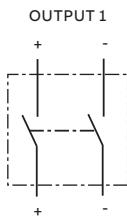
Number of poles	Rated operat. current [A]				Weight/ unit [kg]
	UL		IEC		
	600 VDC	660 VDC	1000 VDC	Type	
2	16	16	10	OTDC16UT2	0.15
2	25	25	16	OTDC25UT2	0.15
2	16	16	-	OTDC16UST2	0.15
2	25	25	-	OTDC25UST2	0.15
2	32	32	-	OTDC32UT2	0.15

#### Double circuit - up to 1000 VDC

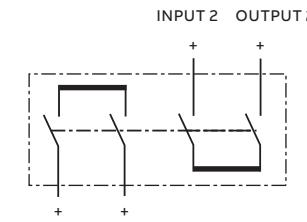
Number of poles	Rated operat. current [A]				Weight/ unit [kg]
	UL		IEC		
	600 VDC	660 VDC	1000 VDC	Type	
4	16	16	10	OTDC16UT4	0.15
4	25	25	16	OTDC25UT4	0.15
4	32	32	20	OTDC32UT4	0.15
4	16	16	-	OTDC16UST4	0.15
4	25	25	-	OTDC25UST4	0.15
4	32	32	-	OTDC32UST4	0.15



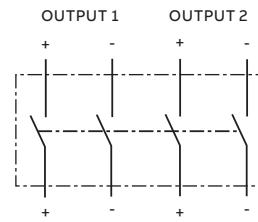
—  
Single circuit, US types



—  
Single circuit, U types



—  
Double circuit, US types



—  
Double circuit, U types

# Ordering information, UL

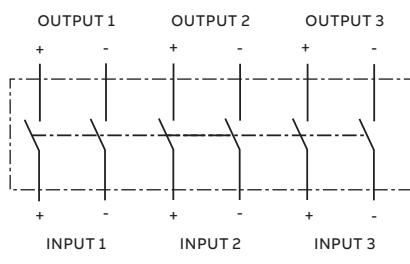
## OTDC16...32U\_T, 1000 VDC



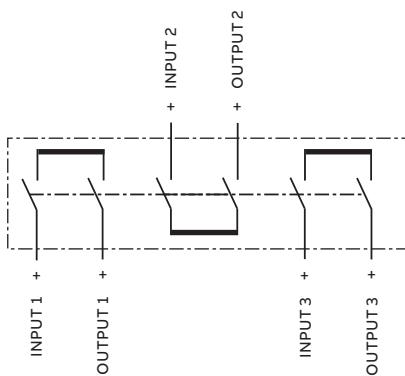
—  
OTDC16...32UT6,  
OTDC16...32UST6

— Triple circuit - up to 1000 VDC door mounted switch

Number of poles	Rated operat. current [A]			Weight/ unit [kg]	
	UL	IEC			
	600 VDC	660 VDC	1000 VDC		
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 include 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 include 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

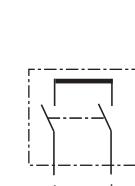
**Double circuit, 1000 VDC, UL98B - 100...200 A**

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.

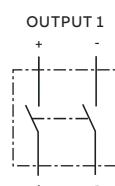
Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Weight/ unit [kg]
-----------------------	---------	--	------	-------------------------

**Mechanism between the poles**

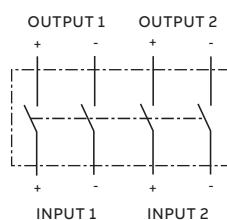
2x2	3, 6f	100	OTDC100US22	2.5
2x2	3, 6f	180	OTDC180US22	2.5
2x2	3, 6f	200	OTDC200US22	2.5
2x2	4a, 6d	100	OTDC100U22	2.3
2x2	4a, 6d	180	OTDC180U22	2.3
2x2	4a, 6d	200	OTDC200U22	2.3



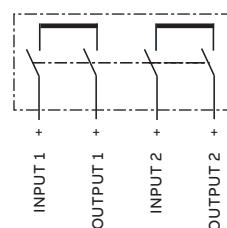
Single circuit, US types



Single circuit, U types



Double circuit, U types



Double circuit, US types

# Ordering information, UL

## OTDC100...245, 1000 VDC



— OTDC100...200US33



— OTDC100...200U33

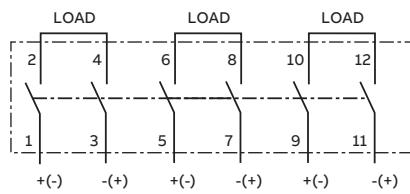
**Triple circuit, 1000 VDC, UL98B - 100...200 A**

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.

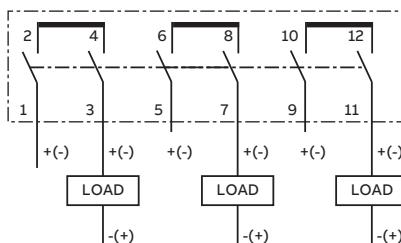
Number of poles	Circuit	Rated operat. current [A] UL98B / 1000 V	Type	Weight/unit [kg]
<b>Mechanism between the poles</b>				
3x2	7i	100	OTDC100US33	3.2
3x2	7i	200	OTDC200US33	3.2
3x2	7a, 7e	100	OTDC100U33	2.8
3x2	7a, 7e	200	OTDC200U33	2.8

**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

# Ordering information, UL

## OTDC100...245, 1000 VDC, side operated



— OTDC100...200U20S



— OTDC100...200US20S

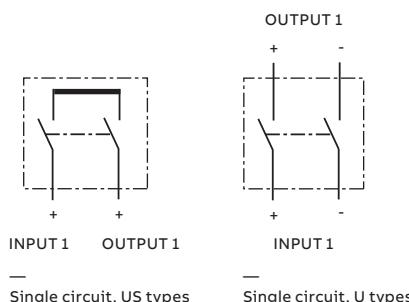
### Side operated, single circuit, 1000 VDC, UL98B - 100...250 A

Side operation. Shafts and handles are not included. OTDC\_US types include 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



# Ordering information, UL

## OTDC100...200, 1500 VDC



OTDC100...200UV22



OTDC100...200USV22

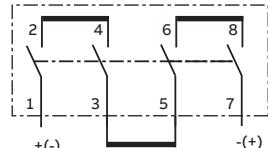
### Single circuit, 1500 VDC, UL98B -100...200 A

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.

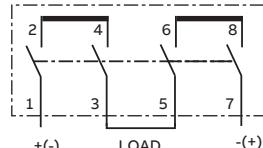
Number of poles	Circuit	Rated operat. current [A] UL98B / 1500 V	Type	Weight/unit [kg]
<b>Mechanism between the poles</b>				
2x2	6a,6b	100	OTDC100UV22	2.3
2x2	6a,6b	200	OTDC200UV22	2.3
2x2	6m	100	OTDC100USV22	2.4
2x2	6m	200	OTDC200USV22	2.4

### 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



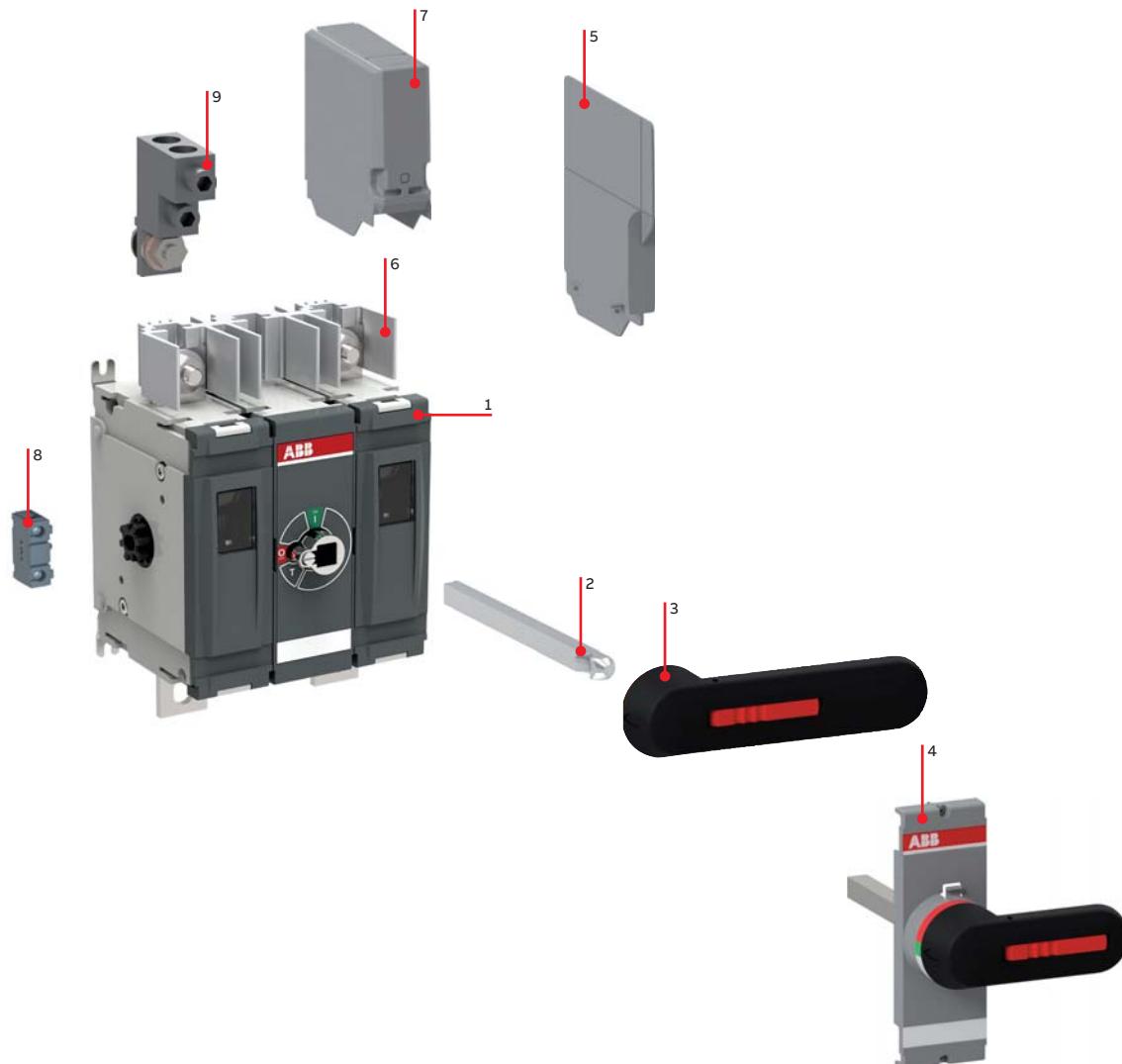
Single circuit, U types

# Ordering information, UL

## OTDC250...400, 1000 VDC

### DC disconnect switches accessory guide<sup>1)</sup>

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



<sup>1)</sup>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]
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#### 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

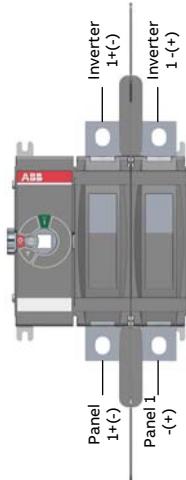
#### Recommended shafts, handles and bolt kits

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

# Ordering information, UL

## OTDC250...600, 1000 VDC

OTDC250...600UF02

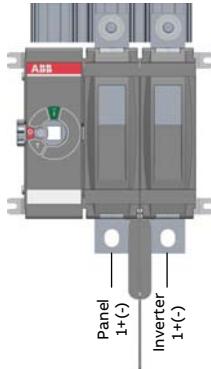


Circuit 2a, 2b

OTDC250...600UF11

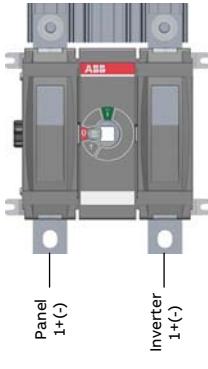


OTDC250...400UFS02



Circuit 1a

OTDC250...400UFS11



OTDC600UFS02



OTDC600UFS11



# 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]
<b>Front operated, mechanism between the poles</b>				
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

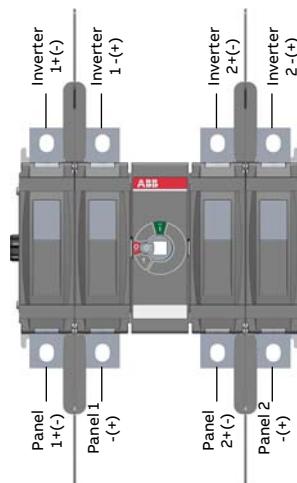
### Recommended shafts, handles and bolt kits

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

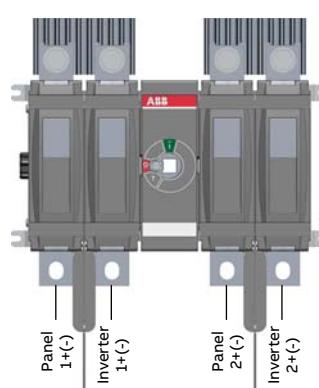
OTDC250...600UF22

OTDC250...400UFS22

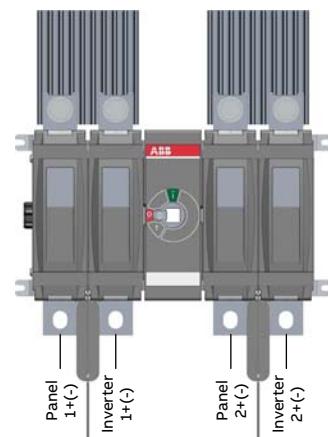
OTDC600UFS22



Circuit 4a, 4c



Circuit 3



# 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...600UFS\_ - 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]
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#### 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

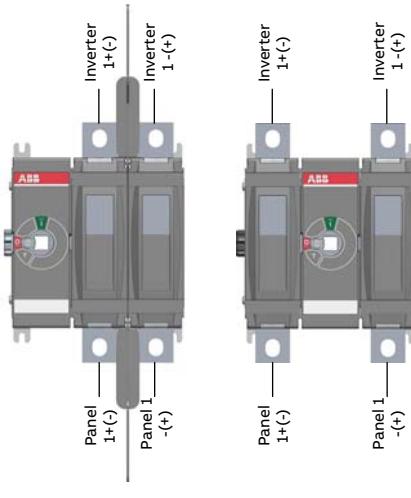
2	2a,2b	250	OTDC250UFV11	3.41
2	2a,2b	320	OTDC320UFV11	3.41
2	2a,2b	400	OTDC400UFV11	3.41
2	2a,2b	600	OTDC600UFV11	3.41
2	1a	250	OTDC250UFSV11	3.76
2	1a	320	OTDC320UFSV11	3.76
2	1a	400	OTDC400UFSV11	3.76
2	1a	600	OTDC600UFSV11	4.16

#### Recommended shafts, handles and bolt kits

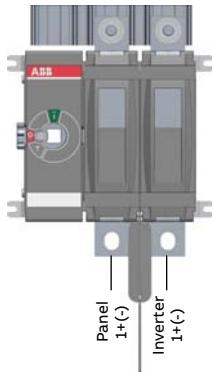
Suitable for switches	Shaft	Handle	Bolt kit
OTDC250...600	OXP12x185	OHB95J12	M10x30
		OHB125J12	M12x40
		OHB145J12	
	-	OTDV400FK1	
		OTDV400FK2	

# Ordering information, UL

## OTDC250...600, 1500 VDC



OTDC250...400UFSV02



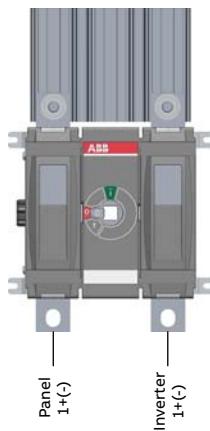
OTDC250...400UFSV11



OTDC600UFSV02



OTDC600UFSV11



# Ordering information, UL

## OTDC800...1000, 1000 VDC



### 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).

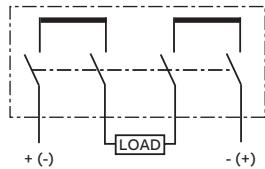
Included terminal bolts:

- OTDC800...1000: M12X60



### Front operated, mechanism between the poles. OTDC\_US and OTDC\_U\_PP types include pre-mounted jumpers

Number of poles	Circuit	Rated operat. current [A] DC 21 / 1000 V	Type	Weight/ unit [kg]
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

# 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
Rated current /poles in series	600 V	One circuit	A 16/2	25/2
		Two circuits	A 16/2	25/2x2
Short circuit rating	600 V	kA	5	5
Protection type			RK5 Fuse	RK5 Fuse
Wire range	MCM		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 <sup>1)</sup>
UL Listed	Standard	UL98B	UL98B	UL98B
Rated ambient temperature		°C	-20...+50	-20...+50
Rated current /poles in series	1000 V	One circuit	A 100/2	200/2
		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
Protection type			Circuit breaker	Circuit breaker
Wire range	MCM		4 - 300 kcmil	4 - 300 kcmil
Technical data according to IEC 60947	See IEC table for type	OTDC160E	OTDC250E	OTDC250E

<sup>1)</sup> 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
Rated current /poles in series	1000 V	One circuits	A 250/2	320/2	400/2
		Two circuits	A 250/2x2	320/2x2	400/2x2
	1500 V	One circuits	A 250/2	320/2	400/2
		Two circuits	A 250/2x2	320/2x2	400/2x2
Short circuit rating	1000 V	kA	10	10	10
	1500 V	kA	10	10	10
Protection type			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
Rated conditional short-circuit current	R.M.S. -value $I_q$	kA	30	30	30
	Max. ETI L/R=3ms	A	400	400	400
	fuse size, gPV <sup>1)</sup>				
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_

<sup>1)</sup> 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 <sup>1)</sup>
Short circuit rating	1000 V	kA	10	10	10
Protection type		Circuit breaker	Circuit breaker	Circuit breaker	Circuit breaker
Wire range	MCM	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

<sup>1)</sup> When shrouds are used rated current I = 920A

<sup>2)</sup> When shrouds are used rated current I = 980A





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## 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

#### Handle knobs for base and DIN-rail mounted switches

Mounting directly to the switch, no shaft needed.



OHRS2



OHBS1



OHBS3



OHRS3



OHRS9

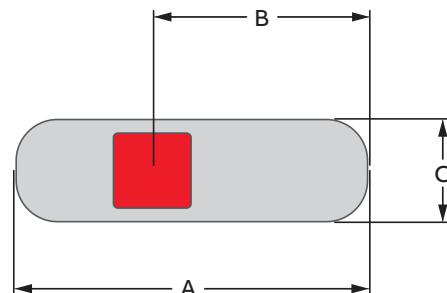


OHBS16

Suitable for switches	Colour	Handle length [mm]	Type	Weight/unit [kg]
<b>Padlockable in 0-position with one padlock with bail diameter 5 mm</b>				
OT16, OT25, OT40F3/F4	Black	37	OHBS12	0.01
	Red	37	OHRS12	0.01
<b>OT63...100F3/F4, OT16...40F6/F8</b>				
	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
<b>Non-padlockable</b>				
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

### 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.



OHBS3AH



OHYS3AH



OHBS2AJ



OHYS2AJ



OHBS2AJ\_EH

Suitable for switches	Colour	Type	Weight/ unit [kg]
<b>IP54 handles, NEMA 1</b>			
OT16...80F	Black	OHBS1AH	0.05
	Red-yellow	OHYS1AH	0.05
<b>Door interlock in ON-position</b>			
OT16...80F	Black	OHBS1AH1	0.05
	Red-yellow	OHYS1AH1	0.05
<b>Padlockable with one padlock with bail diameter 5...6.3 mm</b>			
OT16...80F	Black	OHBS3AH <sup>1)</sup>	0.05
	Red-yellow	OHYS3AH <sup>1)</sup>	0.05
<b>Padlockable with one padlock with bail diameter 5...6.3 mm, door interlock in ON-position</b>			
OT16...80F	Black	OHBS3AH1 <sup>1)</sup>	0.05
	Red-yellow	OHYS3AH1 <sup>1)</sup>	0.05
<b>IP65 handles, NEMA 1, 3R, 12</b>			
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
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#### Padlockable with max. 3 padlocks, door interlock in the ON-position, non-defeatable

OT16...80F, OT30, OT60, OT100F	Black	OHBS2AJ1EH	0.07
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-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<sup>2)</sup>

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

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

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



OZ331\_RY



OZ371PB

### 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.



OHB\_



OHY\_



OHG45J6

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 <sup>1)</sup>	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

##### Modular adapter cover - for OT16, OT25, OT40

Item	For use on	Length (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.



CXBY68140

##### 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]
<b>Plain plates for OH 1_ and OH 3_handles.</b>		
Black	OPBS1	0.01
Yellow	OPYS1	0.01
Silver	OPSS1	0.01
Grey	OPGS1	0.01
<b>Plain plates for OH 2_ handles.</b>		
Black	OPB2	0.01
Yellow	OPY2	0.01
Silver	OPS2	0.01
Grey	OPG2	0.01
<b>Printed plates for OH 1_ and OH3_ handles. Text: MAIN SWITCH.</b>		
Black	OPBS1EN1	0.01
Yellow	OPYS1EN1	0.01
Silver	OPSS1EN1	0.01
Grey	OPGS1EN1	0.01
<b>Printed plates for OH 2_ handles. Text: MAIN SWITCH.</b>		
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

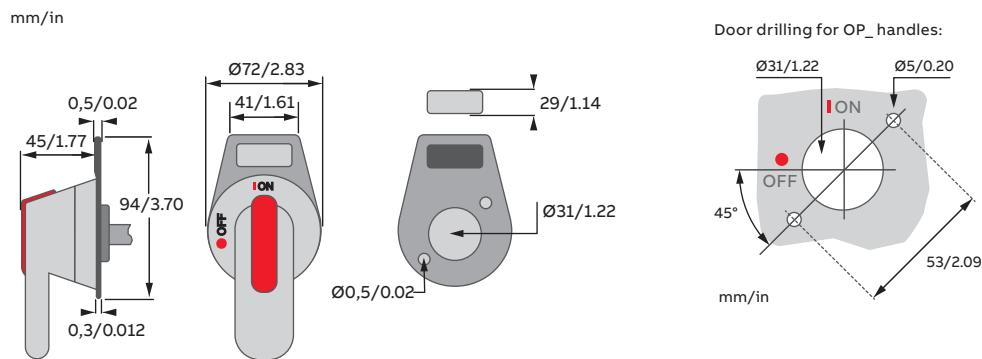
**Legend plates for pistol handles**

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



OPB3

**Dimensions of legend plate for pistol 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

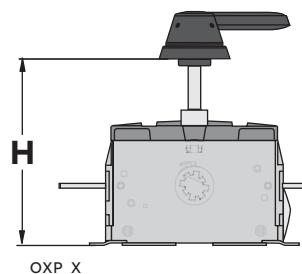
## OT16...160

### Ordering information for shafts

#### Shafts

Suitable for all the switches in this section, OT16...100F and OT160G.

Shaft diameter 6 mm.



OXP\_X\_

Shaft length [mm]	Mounting depth H [mm]	Type	Weight/ unit [kg]
<b>For selector handles</b>			
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
<b>For round padlockable handles</b>			
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
<b>For pistol handles</b>			
150	See dimension drawings	OXP6X150	0.05
170		OXP6X170	0.05
265		OXP6X265	0.08
400		OXP6X400	0.12



#### 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

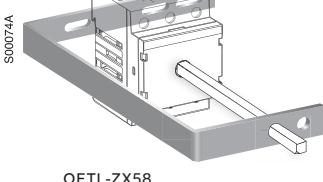


OETLZX58

### Shaft support for long shafts

Supporting 6 mm shaft longer than 400 mm.

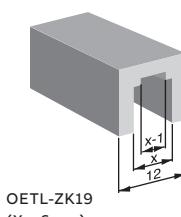
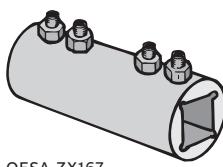
Suitable for switches	Type	Weight/ unit [kg]
OT16...100F	OETLZX58	0.10



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

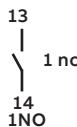
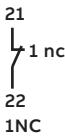
### Ordering information for auxiliary contacts



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.  $2 \times 2.5 \text{ mm}^2$ . 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]
<b>Mountable on left side, max. 2 pcs</b>			
OT16...100F_, FT_	1NC	OA1G01	0.03
	1NC	OA1G01AU <sup>1)</sup>	0.03
<b>Mountable on the right side, max. 2 pcs</b>			
OT16...100F_, FT_	1NO	OA1G10	0.03
	1NO	OA1G10AU <sup>1)</sup>	0.03
<b>Mountable on left side, max. 4 pcs</b>			
OT160G_ and OT160GT_	1NC	OA1G01	0.03
	1NC	OA1G01AU <sup>1)</sup>	0.03
<b>Mountable, on the right side, max. 4 pcs</b>			
OT160G_ and OT160GT_	1NO	OA1G10	0.03
	1NO	OA1G10AU <sup>1)</sup>	0.03
<b>Mountable on both sides, simultaneous function with the main contacts</b>			
OT16...40F_: max. 2NO+2NC, OT63...100F: max. 4NO+4NC <sup>3)</sup>			
OT16...100F_	1NO+1NC	OA2G11 <sup>2)</sup>	0.03

<sup>1)</sup> Types \_AU are gold plated for extremely difficult circumstances and low voltages.

<sup>2)</sup> Not mountable on the same side as the fourth pole.

<sup>3)</sup> 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\_

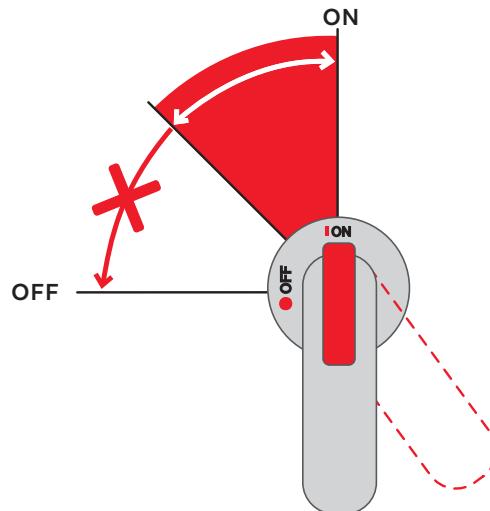
AC15	DC12		DC13			
U <sub>e</sub> /[VAC]	I <sub>e</sub> /[A]	U <sub>e</sub> /[VDC]	I <sub>e</sub> /[A]	P/[W]	I <sub>e</sub> /[A]	P/[W]
230	6	24	10	240	2	50
400	4	72	4	290	0.8	60
415	4	125	2	250	0.55	70
690	2	250	0.55	140	0.27	70
		440	0.1	44		

#### For OA1G\_, OA2G\_, OA3G\_, OA8G\_

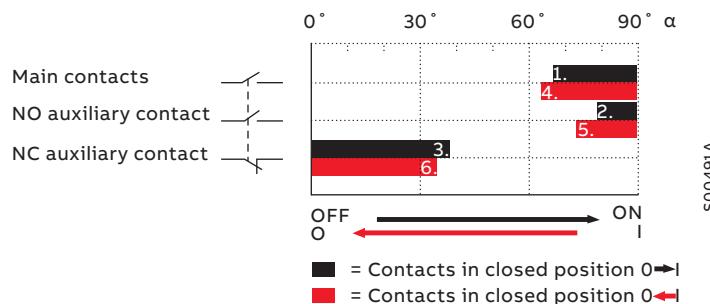
U <sub>i</sub> /[V]	690
U <sub>imp</sub> /[kV]	4
Pollution degree	3
I <sub>th</sub> /[A]	16
Cable size	1...2 x 0.75...2.5 mm <sup>2</sup>
Maximum fuse	16A / gG
NEMA	A600, R300, wire size: 18 - 14 AWG, 1(2)

#### 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.



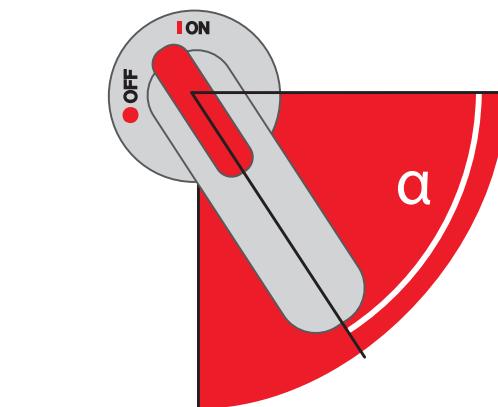
#### ON and OFF-functions of main and auxiliary contacts



#### Closing:

1. Main contacts close
2. NO auxiliary contacts close
3. NC auxiliary contacts open
4. Main contacts open
5. NO auxiliary contacts open
6. NC auxiliary contacts close

#### Opening:



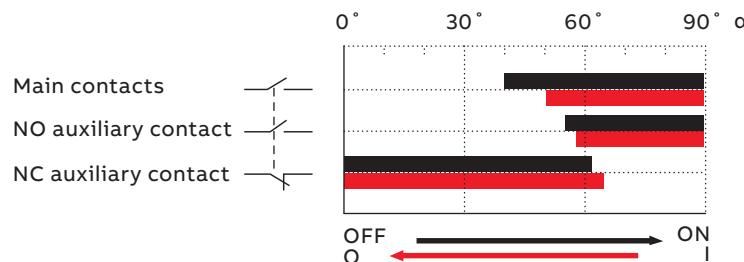
# Accessories for manual disconnect switches OT16...160

## Technical data for auxiliary contacts

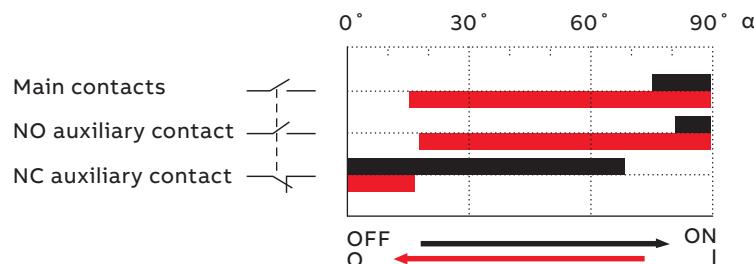
### ON and OFF-functions of main and auxiliary contacts OT16...160

Auxiliary contact OA2G11, simultaneous function with main contacts.

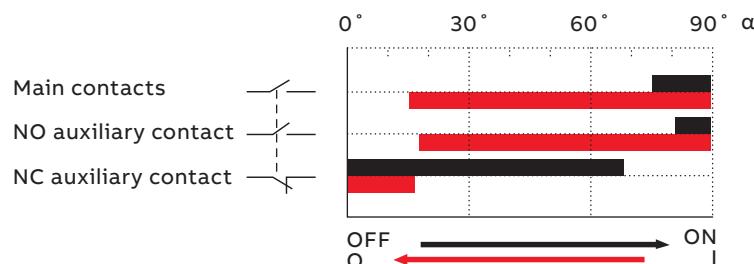
#### OT16...40



#### 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

### Fourth poles, simultaneous function with the main contacts OT16...100<sup>1)</sup>

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



OTPS125FD

### Fourth poles, late-break and early-make

Mountable on the side of the switch.



OTPS40FDN1

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



OTPL80FP

\* 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.

Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/unit [kg]
<b>For DIN rail and base mounted switches</b>				
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
<b>For door mounted switches</b>				
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

Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/unit [kg]
<b>For OT disconnect switches</b>				
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
<b>For door mounted switches</b>				
OT16, OT25, OT40FT3	OTPL40FD	40	600	0.03
OT63...80FT3	OTPL80FD	80	600	0.06
OT30, OT60, OT100FT3	OTPL125FD	100	600	0.14

# Accessories for manual disconnect switches

## OT16...160

Ordering information for neutral and earth terminals



OTPD40FP

### Fixed neutral

Mountable on the side of the switch.



Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/unit [kg]
<b>For base mounted switches</b>				
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
<b>For door mounted switches</b>				
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



OTPD80FP

### Detachable neutral

Mountable on the side of the switch.



Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/unit [kg]
<b>For DIN rail and base mounted switches</b>				
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
<b>For door mounted switches</b>				
OT63...80FT3	OTPD80FD	80	600	0.06



OTPD80FD



OTPE40FP

### Protective earth

Mountable on the side of the switch.



Suitable for switches	Type	AC thermal amp rating	AC rated voltage	Weight/unit [kg]
<b>For OT disconnect switches</b>				
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
<b>For door mounted switches</b>				
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



OTPE125FP



OTPE125FD

# 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]
<b>For 3-pole OT switches</b>		
OT16, OT25, OT40FT3	OTS40T3	0.01
OT63...80F3, FT3	OTS63T3	0.01
OT100F3, FT3	OTS125T3	0.01
OT160G_, GT_	OTS160G1L3	0.02
<b>For 1 to 4-pole OT switches, shroud for single pole and for fourth pole</b>		
OTP_40F_	OTS40T1	0.01
OTP_80F_	OTS63T1	0.01
OTP_60F, OTP_125F	OTS125T1	0.01
<b>For 4 pole OT160G_switches</b>		
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]
<b>Parallel attachment for connecting two 3- or 4-pole switches</b>			
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]
<b>Change-over kits</b>			
OT16...40			
OT63...80		OWC6D80	0.07
OT100		OWC6D125	0.09
<b>Attachment levers</b>			
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

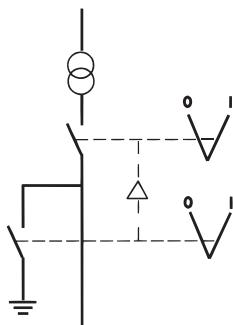
### Ordering information for conversion kits



OTZW17



OTZW24



Mechanical interlock

#### 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

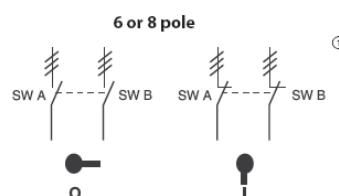
See the table of the handles and shafts included in the conversion kits on page 7/20.

#### 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).

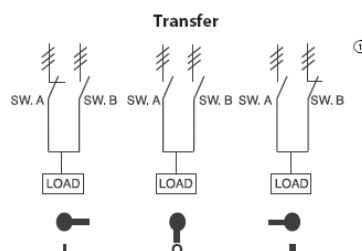
Suitable for switches	Shaft distance [mm]	Type	Weight/unit [kg]
OT16...100	100	OTZW24	0.08
OT160G	190	OTZW10	1

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



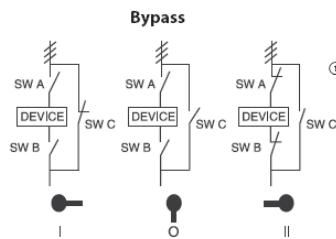
	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed  
O = Open



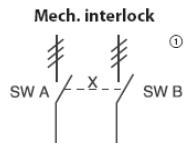
	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed  
O = Open



	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



	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
<b>6 and 8-pole switches</b>							
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
<b>Change-over switches</b>							
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
<b>By-pass switches</b>							
OTZW17	OT16...160	-	-	x (3 pcs)	OHB80J6E011		
<b>Mechanical interlock</b>							
OTZW24	OT16...100	-	-	-	-	x	x

# Accessories for manual disconnect switches

## OT16...160

Ordering information for locking accessories

### Locking accessories



OHZX4

#### 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

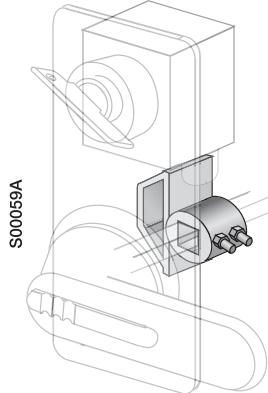


OETLZW16

#### Cam attachment

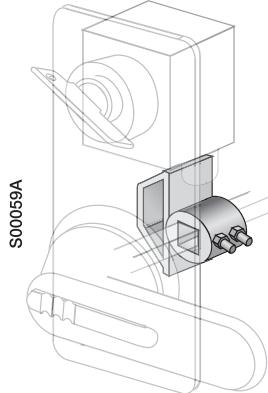
Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Interlock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

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



OETL-ZW16

S00059A



OETL-ZW16

# 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]
<b>Suitable for shaft diameter 6 mm</b>					
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
<b>Suitable for shaft diameter 12 mm</b>					
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]
<b>Suitable for shaft diameter 12 mm</b>					
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]
<b>Suitable for shaft diameter 6 mm</b>				
Grey	65	I-O/ON-OFF	OHM65L6	0.73
<b>Suitable for shaft diameter 12 mm</b>				
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



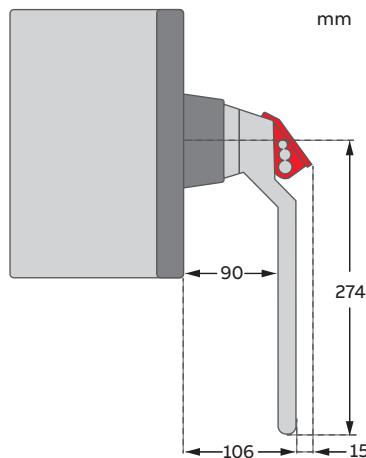
OTV1000EPK

#### 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]
<b>Suitable for shaft diameter 6 mm</b>				
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
<b>Suitable for shaft diameter 12 mm</b>				
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



**Shafts for pistol handles**

For switches	Shaft length [mm]	Mounting depth H [mm]	Type	Weight/unit [kg]
<b>Shaft diameter 6 mm</b>				
OT200U <sup>1)</sup>	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
<b>Shaft diameter 12 mm</b>				
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
<b>Shaft diameter 12 mm</b>				
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
<b>Shaft diameter 12 mm</b>				
OT800...1200U <sup>1)</sup>	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
<b>Shaft diameter 12 mm</b>				
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

<sup>1)</sup> Longer shafts on request

# Accessories for manual disconnect switches

## OT200...2000

### Ordering information for shafts

#### Twisted shafts for pistol handles

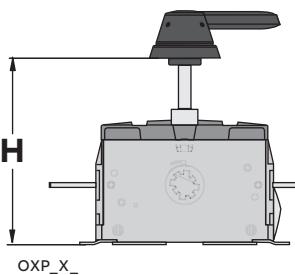
Twisted shafts for pistol handles. Shaft is rotated 45 degrees.



OXP6X\_-45



OXP12X\_-45



For switches	Shaft length [mm]	Mounting depth H [mm]	Type	Weight/unit [kg]
<b>Shaft diameter 6 mm</b>				
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
<b>Shaft diameter 12 mm</b>				
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
<b>Shaft diameter 12 mm</b>				
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
<b>Shaft diameter 12 mm</b>				
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



OXT20X210X

#### 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.

#### Extension ring for pistol handles

Improves the alignment 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.

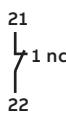
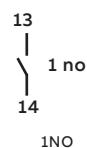
Suitable for switches	Type	Weight/ unit [kg]
OT1200...2000	OXT20X210X	1.50

# Accessories for manual disconnect switches OT200...2000

## Ordering information for auxiliary contacts



OA3G01



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]
<b>Mounting on the left side of the switch</b>			
Max. 8 auxiliary contact blocks with the OEA28 module.			
OT200...2000U	1NO	OA1G10	0.03
	1NO	OA1G10AU <sup>1)</sup>	0.03
	1NC	OA3G01	0.03
	1NC	OA3G01AU <sup>1)</sup>	0.03
<b>Mounting under the mechanism cover</b>			
Max. 4 test contacts or 2 test contacts + 2 test indication contacts			
OT200U	1NO, early break	OA1G10	0.03
	1NO, early break	OA1G10AU <sup>1)</sup>	0.03
	1NC, early make	OA3G01	0.03
	1NC, early make	OA3G01AU <sup>1)</sup>	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 <sup>1)</sup>	0.03
	1NC, early make	OA3G01	0.03
	1NC, early make	OA3G01AU <sup>1)</sup>	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 <sup>1)</sup>	0.03
	1NC, early make	OA3G01	0.03
	1NC, early make	OA3G01AU <sup>1)</sup>	0.03

<sup>1)</sup>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.

# 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 <sub>e</sub> /[VAC]	I <sub>e</sub> /[A]	U <sub>e</sub> /[VDC]	I <sub>e</sub> /[A]	P/[W]	I <sub>e</sub> /[A]
230	6	24	10	240	2
400	4	72	4	290	0.8
415	4	125	2	250	0.55
690	2	250	0.55	140	0.27
				440	0.1
					44

##### For OA1G\_, OA3G\_

U <sub>i</sub> /[V]	690
U <sub>imp</sub> /[kV]	4
Pollution degree	3
I <sub>th</sub> /[A]	16
Cable size	1...2 x 0.75...2.5 mm <sup>2</sup>
Maximum fuse	16A / gG
NEMA	A600, R300, wire size: 18 - 14 AWG, 1(2)

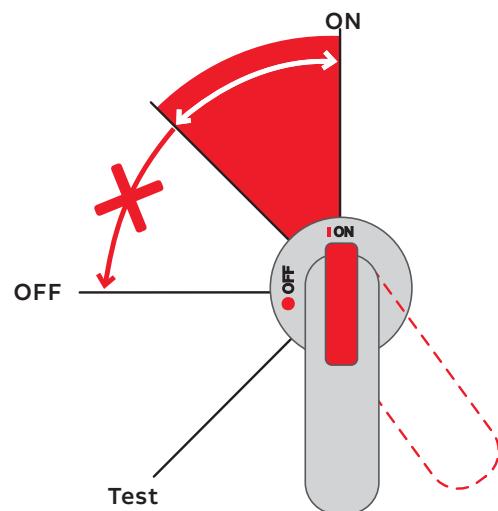
#### Function table of auxiliary contacts

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.

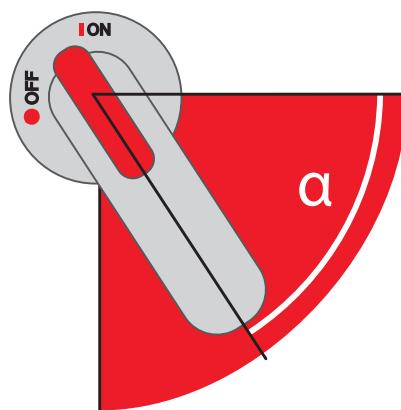
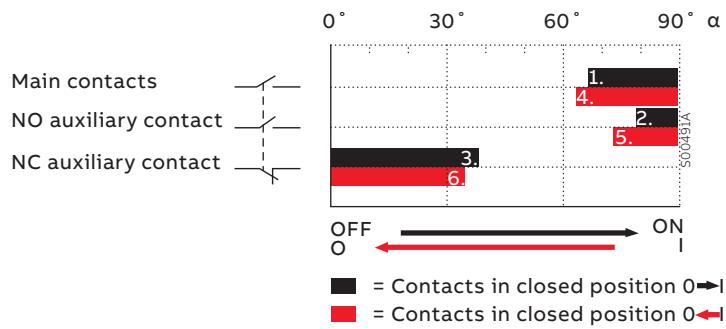
When operating the switch to the Test-position with a test handle, the test auxiliary contacts change position. The main contacts remain open.



# Accessories for manual disconnect switches OT200...2000

## Technical data for auxiliary contacts

### ON and OFF-functions of main and auxiliary contacts



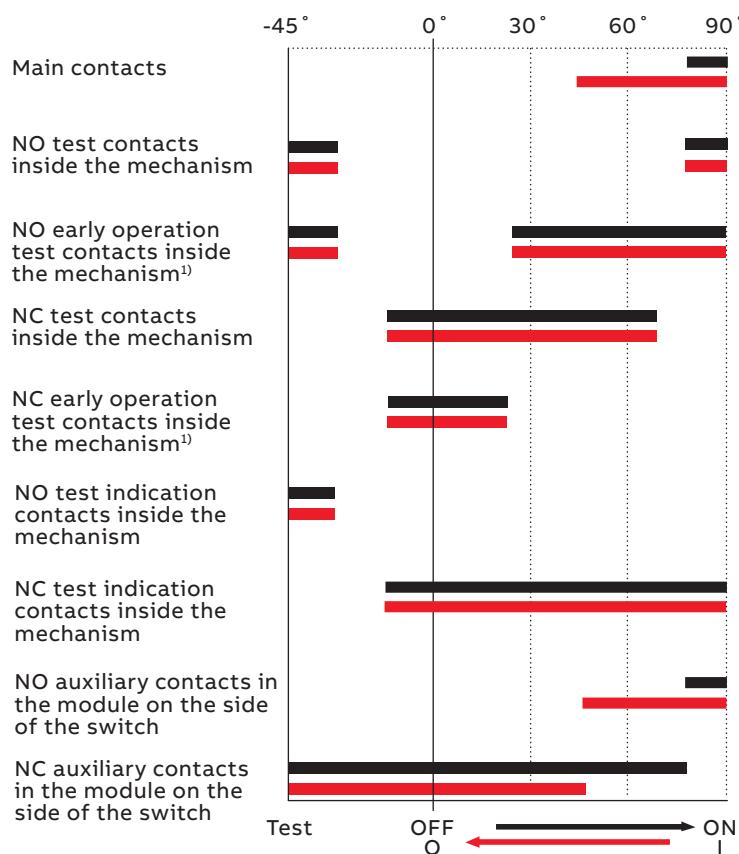
#### Closing:

- 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



<sup>1)</sup> OT1200...2000 only

# Accessories for manual disconnect switches OT200...2000

Ordering information for neutral terminals

## Neutral links

Detachable, mountable separately to the base plate.



OXN250

OXN400

Suitable for switches	I <sub>th</sub> [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



OXN1250T

# Accessories for manual disconnect switches

## OT200...2000

Ordering information for mounting accessories

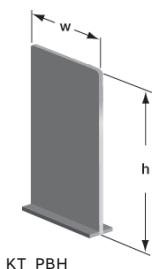


### Phase separators

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

OTB\_



KT\_PBH



KT\_PBL



OSGZD1

### Phase barriers<sup>1)</sup>

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	KT7PBL-3	4
	4	100	55	KT5PBL-4	6
	4	200	55	KT5PBLH-4	6
OT400U	3	100	67	KT5PBL-3	4
	3	200	67	KT7PBL-3	4
	4	100	67	KT5PBL-4	6
	4	200	67	KT5PBLH-4	6
OT600U...800U	3	100	90	KT5PBL-3	4
	3	200	90	KT7PBL-3	4
	4	100	90	KT5PBL-4	6
	4	200	90	KT5PBLH-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 [mm <sup>2</sup> ]	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	OETLZW9	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

#### 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]
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

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

## 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



OETLZW5

### 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



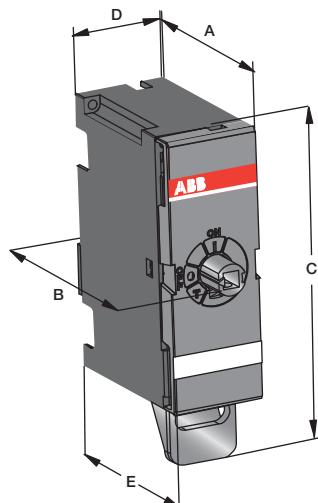
OTZT3A

## 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]
<b>Interlocking in the OFF-position</b>		
OT200U	OTZT1A	0.21
OT400U	OTZT2A	0.57
OT600U	OTZT3A	0.75
OT800U	OTZT4A	1.15
<b>Interlocking in the OFF- and ON-positions</b>		
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]
<b>AC coils</b>		
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
<b>DC coils</b>		
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
<b>Technical data for the coil</b>		
Operating voltage	$U = 0.8 \dots 1.1 \times U_n$	
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]
<b>Padlockable in 0-position</b>				
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
<b>Non-padlockable</b>				
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]
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### 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

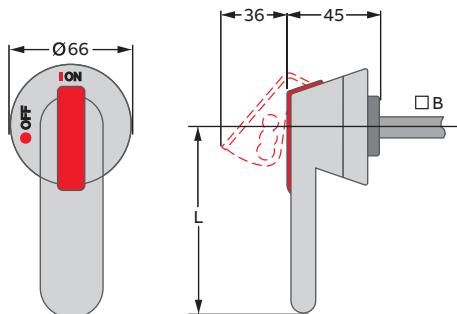
Includes a shaft and a mechanism cover. The type and ordering numbers are for one piece.

Suitable for switches	Colour	Type	Delivery batch [pcs]	Weight/unit [kg]
<b>Padlockable with three padlocks in 0-position.</b>				
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

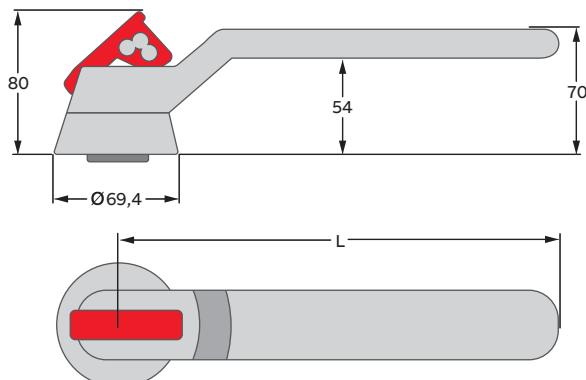
# Optional accessories for manual change-over switches

## Dimensional drawings for external handles

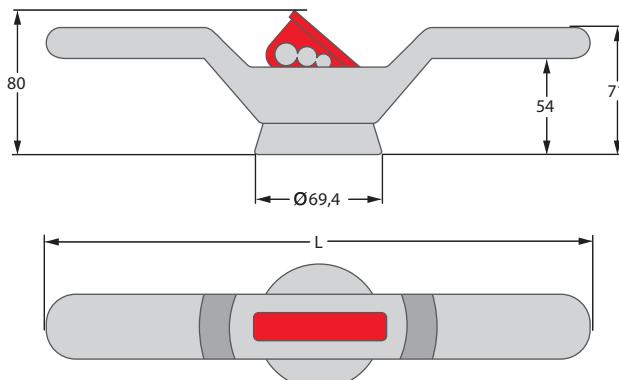
### Plastic handles



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



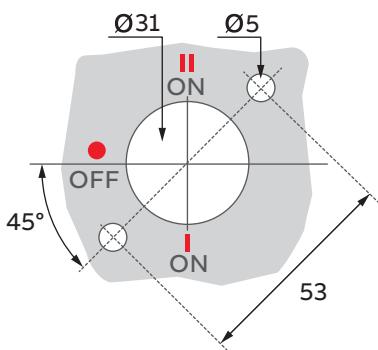
Handle type	L [mm]
OH_274J12	274



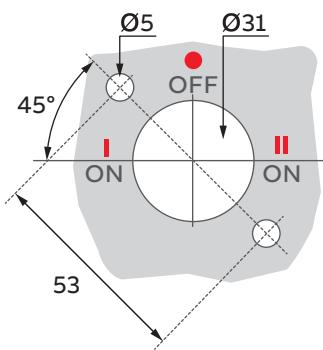
Handle type	L [mm]
OHB150J12P	300
OHB200J12P	400

### Door drilling for OH\_ handles

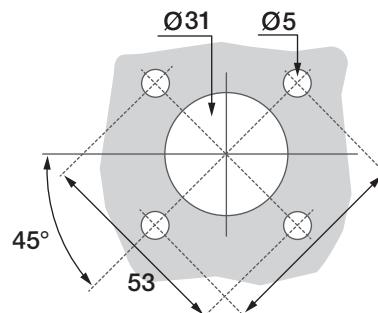
Valid for switches up to 100 A



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\_

**Shafts for selector handle handles**

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



OXP6X\_

**Shafts for pistol handles**

For switches	Length [mm]	Type	Delivery batch [pcs]	Weight/unit [kg]
<b>Shaft diameter 6 mm</b>				
OT16...100F_C	150	OXP6X150	10	0.05
	170	OXP6X170	10	0.05
	265	OXP6X265	10	0.08
	400	OXP6X400	10	0.12
<b>Shaft diameter 6 mm</b>				
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



OXP12X\_

**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



OTS\_L\_

### 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]
<b>For three pole switches</b>			
OT16...40F_C	OTS40T3	10	0.01
OT63...80F_C	OTS63T3	10	0.01
OT100F_C	OTS125T3	10	0.01
<b>For fourth pole</b>			
OTPS40FPN1	OTS40T1	10	0.01
OTPS40FPN2	OTS40T1	10	0.01
OTPS80FP	OTS63T1	10	0.01
OTPS60FP, OTPS125FP	OTS125T1	10	0.01

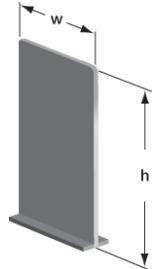
### Terminal shrouds, grey plastic

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".

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	KT7PBL-3	4
OT_200U_C	4	100	55	KT5PBL-4	6
OT_200U_C	4	200	55	KT5PBL-4	6
OT_400U_C	3	100	67	KT5PBL-3	4
OT_400U_C	3	200	67	KT7PBL-3	4
OT_400U_C	4	100	67	KT5PBL-4	6
OT_400U_C	4	200	67	KT5PBL-4	6
OT_600...800U_C	3	100	90	KT5PBL-3	4
OT_600...800U_C	3	200	90	KT7PBL-3	4
OT_600...800U_C	4	100	90	KT5PBL-4	6
OT_600...800U_C	4	200	90	KT5PBL-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 <sup>1)</sup>	10	0.03
OT16...40F_C	40/40/23	OTPS40FPN2 <sup>2)</sup>	10	0.03
OT63...80F_C	80/80/75	OTPS80FP	10	0.06
OT100F_C	125/125/90	OTPS125FP	10	0.14

<sup>1)</sup> Installation to the left side

<sup>2)</sup> Installation to the right side

# Optional accessories for manual change-over switches

## Ordering information and technical data for auxiliary contacts

OA1G01  
OA7G10OA1G10  
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.  $2 \times 2,5$  mm $^2$ . 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 <sup>1)</sup>	10	0.03

<sup>1)</sup> 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\_

U <sub>e</sub> /[V]	AC15		DC12		DC13	
	I <sub>e</sub> /[A]	U <sub>e</sub> /[V]	I <sub>e</sub> /[A]	P/[W]	I <sub>e</sub> /[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
O	open	open	closed
II	closed	open	closed

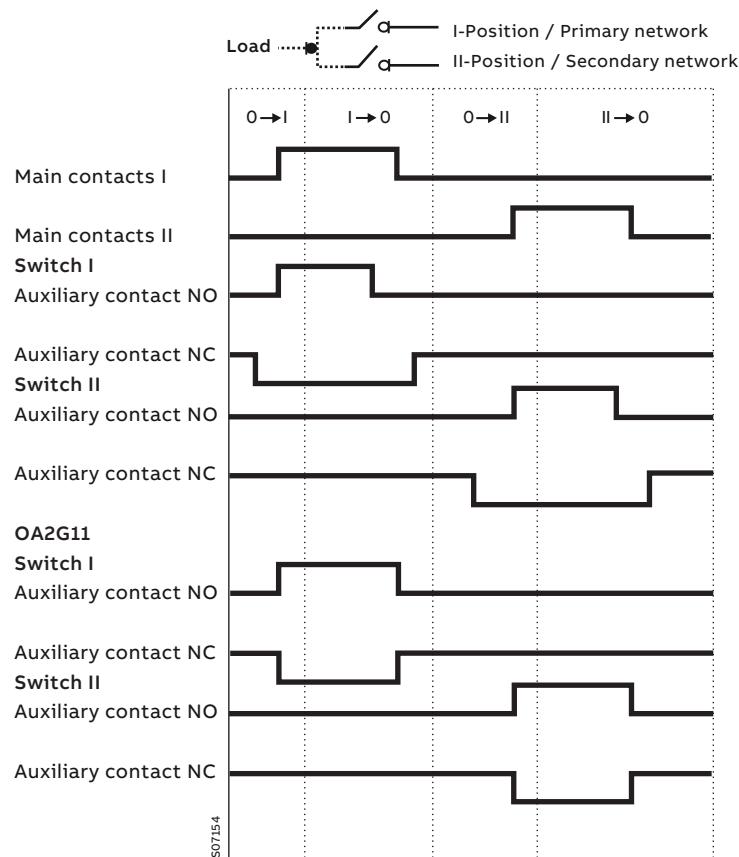
#### Function table of OT200...1200 auxiliary contacts / Switch II (max. 2+2)

Handle position	Main contacts	OA1G10 NO	OA3G01 NC
I	closed	open	closed
O	open	open	closed
II	closed	closed	open

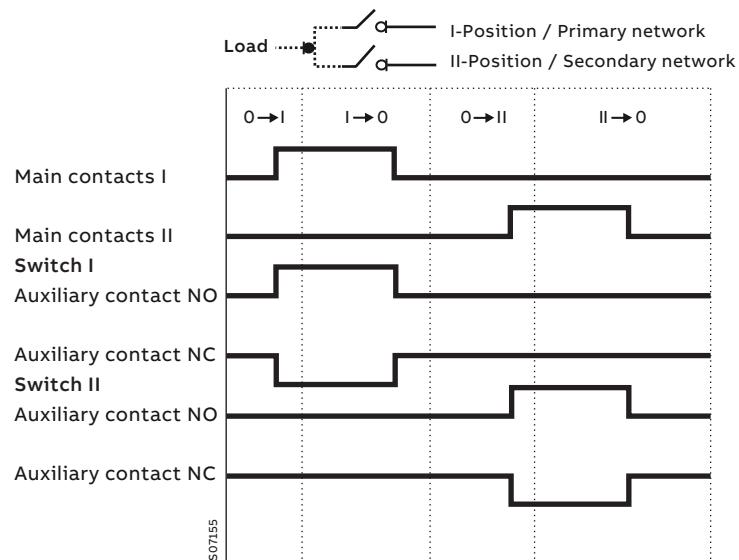
# Contact functions

## 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

### 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.



OHB65J6



OHY65J6



OHG65J6



OHB95J12



OHY95J12T



OHB125J12

Colour	Handle length [mm]	Type	Weight/unit [kg]
<b>For shaft diameter 12mm (for OS30...200)</b>			
<b>Black and red-yellow: I-O/ON-OFF, grey: I-O.</b>			
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
<b>Black and red-yellow: Test/I-O/ON-OFF, grey:Test/I-O.</b>			
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
<b>For shaft diameter 12mm (for OS400)</b>			
<b>Black and red-yellow: I-O/ON-OFF, grey: I-O.</b>			
Black	95	OHB95J12	0.16
Red-yellow	95	OHY95J12	0.16
Grey	95	OHG95J12	0.16
<b>Indication: Test-OFF-ON/Test O-I</b>			
Black	95	OHB95J12T	0.16
Red-yellow	95	OHY95J12T	0.16
<b>For shaft diameter 12mm (for OS600...800)</b>			
<b>Black and red-yellow: I-O/ON-OFF, grey: I-O.</b>			
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
<b>Indication: Test-OFF-ON/Test O-I</b>			
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

### 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.



OHB274/330J12



OHY274J12



OHM\_



YASDA\_

Colour	Handle length [mm]	Type	Weight/unit [kg]
<b>For shaft diameter 6mm (for OS1200)</b>			
<b>Black and red-yellow: I-O/ON-OFF</b>			
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	OHY200J12P	0.40
<b>Indication: Test-OFF-ON/Test-O-I</b>			
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]
<b>For shaft diameter 6mm (for OS1200)</b>			
Metallic	45	OHM45L6	0.70
Metallic	65	OHM65L6	0.73
<b>For shaft diameter 12mm</b>			
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

### 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.



OHB65J6E00S



OHY65J6E00S

Colour	Handle length [mm]	Type	Weight/unit [kg]
<b>For shaft diameter 6mm</b>			
<b>Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O</b>			
Black	65	OHB65J6E00S	0.12
Red-yellow	65	OHY65J6E00S	0.12
Grey	65	OHG65J6E00S	0.12
<b>Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O</b>			
Black	65	OHB65J6TE00S	0.12
Red-yellow	65	OHY65J6TE00S	0.12
Grey	65	OHG65J6TE00S	0.12
<b>For shaft diameter 12mm</b>			
<b>Plastic handles, indication I-O/ON-OFF</b>			
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 <sup>1)</sup>	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

### 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.

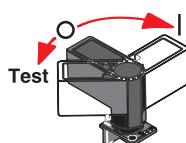


OSV1250DK

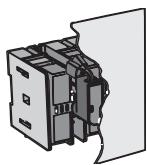
Suitable for switches	Colour	Type	Weight/unit [kg]
<b>Suitable for OS60G...1200</b>			
Indication: Test OFF-ON/Test O/I indication Padlockable with three padlocks in the OFF-position, optionally also in the ON-position. Includes shaft and mechanism cover.			
OS60GJ, OS100GJ, OS200J	Black	OSV200BK	0.14
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



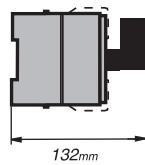
OHB4



OHBS5



OHBS5 Mounted



OHBS5 Mounted depth

### 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]
<b>Suitable for OS Mini</b>			
Padlockable with three padlocks in the OFF-position when the door is open. Max. bail dia 6mm.			
OS30FA_	Black	OHB4	0.05

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

NEMA type	Color	Marking	Length mm	Padlockable	Catalog number
1	Black	O/I/Test	50	Yes	OHBS5 <sup>1)</sup>

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

# Accessories for fusible disconnect switches OS30 A, 60 A

## Ordering information for shafts



### Extended shafts

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

<sup>1)</sup>The shaft position is rotated 45 degrees.

<sup>2)</sup>If side operated OS Mini, 4 poles is needed, add 36mm into side operated H [mm] measurements.

<sup>3)</sup>Included as standard in P-types.

<sup>4)</sup>If side operated OS60GJ is needed, add 33mm for 3-pole and 68mm for 4-pole into the Side operated H [mm] measurements.

<sup>5)</sup>Included as standard in front operated types.

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

## Ordering information for shafts

### Extended shafts



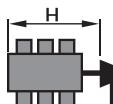
OXP6X\_



OXP\_X\_-45



OXP12X\_

Side  
operated  
H [mm]

Shaft length [mm]	Front operated H [mm]	Side operated H [mm]	Type	Weight/unit [kg]
<b>For OS100G<sup>2)</sup>, shaft diameter 6mm</b>				
63	161...167		OXP6X63	0.02
90	188...194		OXP6X90	0.03
130	127...174 <sup>4)</sup>	228...234	OXP6X130	0.04
161	138...205		OXP6X161 <sup>3)</sup>	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 <sup>1)</sup>	0.06
290	267...334		OXP6X290-45 <sup>1)</sup>	0.08
360	337...404		OXP6X360-45 <sup>1)</sup>	0.10
<b>For OS400, shaft diameter 12mm</b>				
250	230...325	489...495	OXP12X250 <sup>3)</sup>	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

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

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

## Ordering information for shafts



OXP12X\_



OXP12X280-45



OETLZX95

### Extended shafts

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

<sup>1)</sup> The shaft position is rotated 45 degrees.

<sup>2)</sup> Included as standard in front operated P-types.

<sup>3)</sup> H with handle OH\_274/330J12.

<sup>4)</sup> H with handle OHB150/200112P.

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

## Ordering information for auxiliary contacts



OA3G01



OA3G01AU

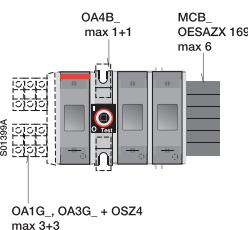
### Auxiliary contact blocks for OS30FA\_...1200<sup>1)</sup>

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

### 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
Maximum number of contacts blocks 4	0	8	4
Aux./Test contacts	4	0	2
Test indication contacts	2	0	4

<sup>1)</sup> 6 aux/test contacts and 2 early operation aux./test contacts.

<sup>2)</sup> 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	OEA30R
L: Mounting on the left side of the switch	OEA30L

<sup>1)</sup> 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 <sub>imp</sub> /[kV]	4
	3
	16
	1...2 x 0.75...2.5mm <sup>2</sup>
	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]
230	6	24	10	240	2
400	4	72	4	288	0.8
690	2	125	2	250	0.55
		250	0.55	138	0.27
		440	0.1	44	68

#### OA4\_

##### EN61058-1

U <sub>e</sub> /[V]	400
I <sub>th</sub> /[A]	10
I <sub>e</sub>	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

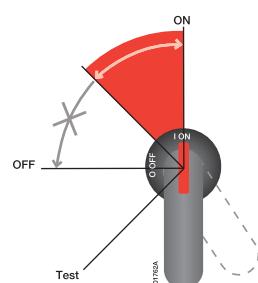
### Handle indications and functions

The handle indicates the position of the contacts with complete reliability in all situations. If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintaining 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.

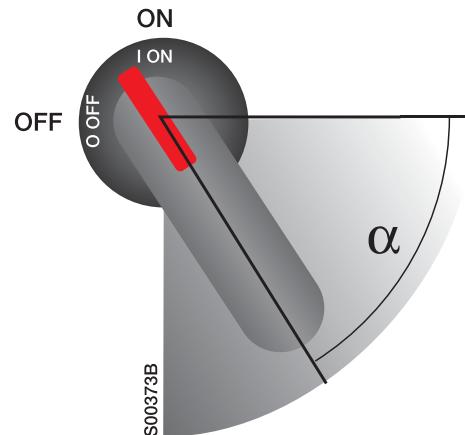
#### Closing

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



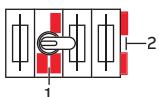
#### Opening

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

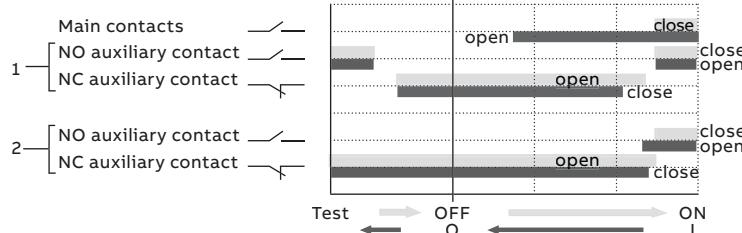


### ON and OFF-functions of main and auxiliary contacts

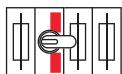
#### Example



Places of auxiliary contacts and Test ind.

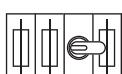


#### OS30\_



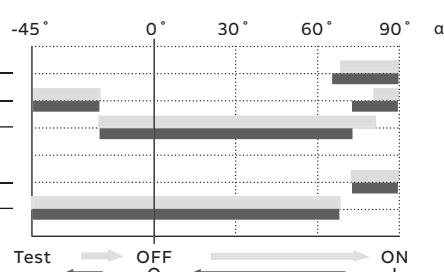
OA4B1C, 1 NO-NC

Change over contacts



OA1G10, 1NO  
OA3G01, 1NC

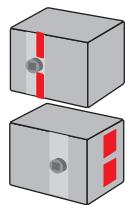
Main contacts  
NO auxiliary contact  
NC auxiliary contact  
NO auxiliary contact  
NC auxiliary contact



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

## Auxiliary contacts timing diagrams

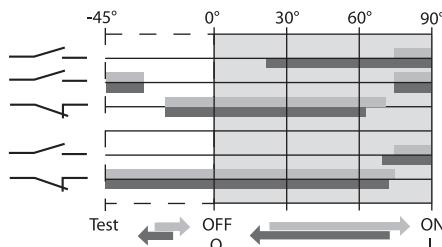
### OS 60\_



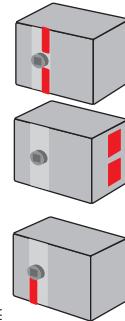
OA1G10  
OA3G01

OA1G10  
OA3G01

Main contacts  
NO auxiliary contact  
NC auxiliary contact  
  
NO auxiliary contact  
NC auxiliary contact



### OS 100\_



OA1G10  
OA3G01

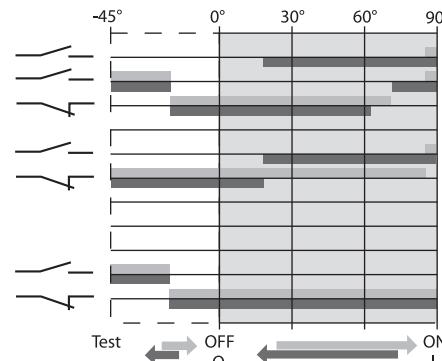
OA1G10  
OA3G01

OA1G10  
OA3G01

Main contacts  
NO auxiliary contact  
NC auxiliary contact

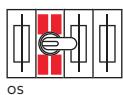
NO auxiliary contact  
NC auxiliary contact

Test ind NO  
Test ind NC

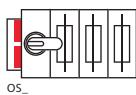


### ON- and OFF-functions of main and auxiliary contacts

#### OS 200...1200



OA1G10, 1NO  
OA3G01, 1NC



OA1G10, 1NO  
OA3G01, 1NC  
+ OEA28

Contact type	Shaft movement	Handle movement				
		TEST -45	OFF 0	30	60	ON 90
<b>Main contacts</b>		0 →   0 ←				
<b>NO test contacts inside the mechanism</b>		0 →   0 ←				
<b>NC test contacts inside the mechanism</b>		0 →   0 ←				
<b>NO test indicating contacts inside the mechanism</b>		0 →   0 ←				
<b>NC test indicating contacts inside the mechanism</b>		0 →   0 ←				
<b>NO auxiliary contacts in the module on the side of the switch</b>		0 →   0 ←				
<b>NC auxiliary contacts in the module on the side of the switch</b>		0 →   0 ←				

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

## Ordering information for neutral links

### Neutral links

#### For OS30FA ... OS100GJ

Detachable, mounting onto the base plate or DIN-rail



OSZ1

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



OXN250

Suitable for switches	Type	Weight/unit [kg]
<b>Detachable, mounting on the switch</b>		
OS200J	OXN250	0.40
<b>Detachable, mounting on the base plate</b>		
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



OXN400

### 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



OXN800S

### 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		OFMZ2
Terminal crimp for OS1200, kit of 6 pieces	OS1200		OFMZ4



OESA-ZS36



OFM240, 600



OFMZ2

# Accessories for manual fusible disconnect switches

## 30...1200 A

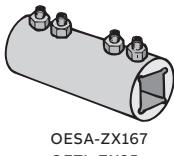
### Ordering information for accessories



#### Phase barriers

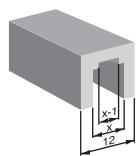
The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OS200...400 fusible disconnect switches, 3-pole fusible disconnect switches need 4 barriers and 4-pole fusible disconnect switches need 6 barriers for full protection. Cutting width of the phase barrier 55mm.

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



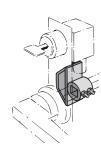
#### Shaft extension coupler

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



#### 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



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

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

Suitable for switches	Cable cross section [mm <sup>2</sup> ]	Type	Tightening torque [lb.in/Nm]		Weight/unit [kg]	Weight/unit [lb]
			[lb.in/Nm]	[N.m]		
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

### Conversion kits for front operated combination switches

Suitable for switches	Switches needed [pcs]	Shaft distance [mm]	Type	Units/type [pcs]	Weight/unit [kg]
-----------------------	-----------------------	---------------------	------	------------------	------------------



OTZW25

### 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



OTZW26

### 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



OETLZW14

### Bypass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to bypass, 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

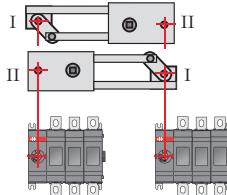
Prevents one switch from closing to ON -position, if the other is not in OFF - position.

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

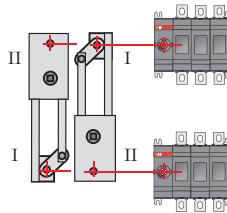
# Accessories for manual operated fusible disconnect switches 30...1200A

## Ordering information for conversion kits

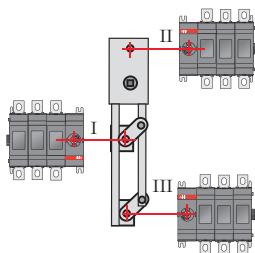


**Shafts and handles for conversion kits**

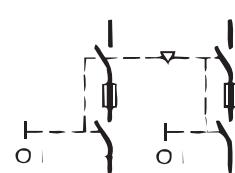
Conversion kit type	To be ordered separately		Included in the conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
<b>6 and 8-pole switches</b>						
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9	-	-	-	-	x	x
<b>Change-over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



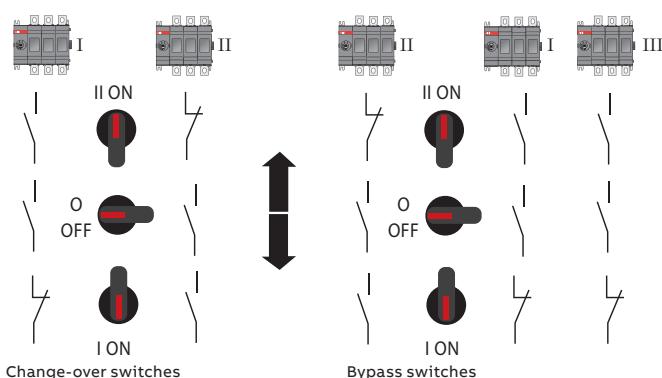
Change-over switches



Change-over and bypass switches



Mechanical interlock



# 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]
<b>Interlocking in the OFF position</b>		
OS200	OSZT1A	0.32
OS400	OSZT2A	0.75
OS600 ...800_	OSZT3A	1.20
OS1200	OSZT4A	2.00
<b>Interlocking in the OFF &amp; ON positions</b>		
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]
<b>AC coils</b>		
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
<b>DC coils</b>		
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



## 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	CXY68641
Mechanism Cover	Replaces original mechanism cover	OT200U	CXY68648/9
Pole Cover	Replaces original pole cover	OT400U	CXY68651
Mechanism Cover	Replaces original mechanism cover	OT400U	CXY68688
Pole Cover	Replaces original pole cover	OT600U	CXY68679
Mechanism Cover	Replaces original mechanism cover	OT600U	CXY68791
Pole Cover	Replaces original pole cover	OT800U...OT2000U	CXY68746
Mechanism Cover	Replaces original mechanism cover	OT800U...OT2000U	CXY68825

## Fuse cover, window & label set

For Use On	Catalog number	Units/Type pcs	Mechanism cover & label set	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

OEZKL1  
OESAZD28  
OESAZD48

OESAZD55

CXY67121

Accessory Type	Description	For Use On	Catalog number
Red Plastic Hasp	Replaces original red plastic hasp for pistol handles	Pistol Handles	CXY68339/P
Red Plastic Hasp	Replaces original red plastic hasp for selector handles	Selector Handles	CXY68219/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	-	CXY68989
1	Black	OS63, OT80, OT16, OT25, OT40	35	-	CXY68998

## 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_	CXY67121



## 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

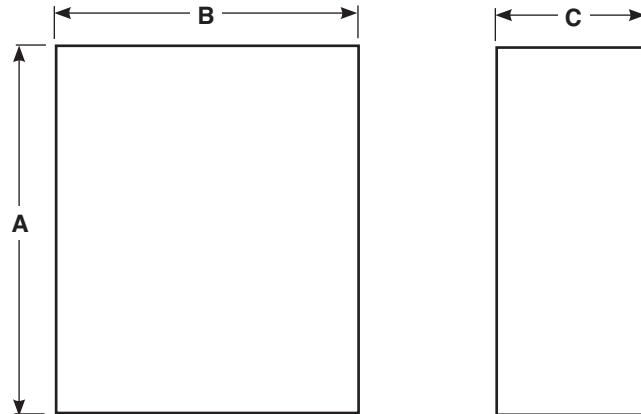
# SafeLine

## Dimensions

### 600V 16-1200A Amps

#### Dimensions for metal and stainless steel enclosures

Type 1, 12, 4 and 4X



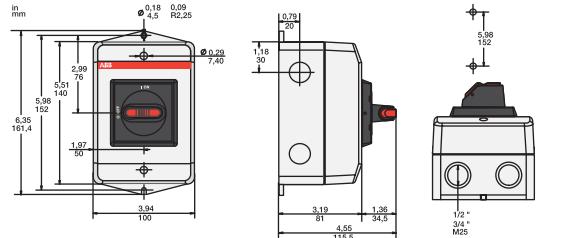
#### Non-fusible switches NF\*-3P

	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

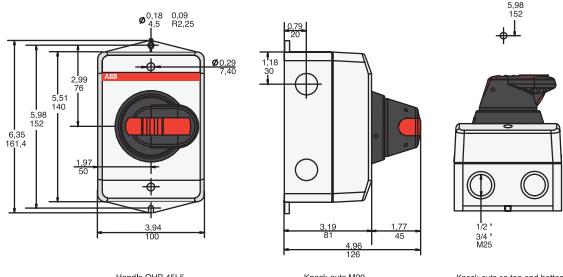
#### Fusible switches FJ\*-3P

	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

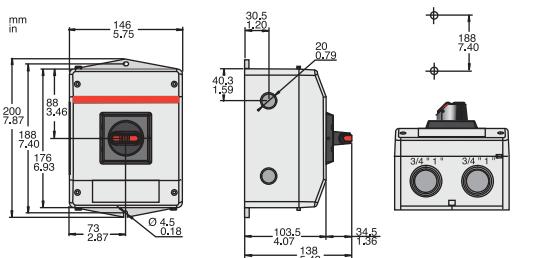
eOT16\_S, eOT32\_S (enclosure size 1)



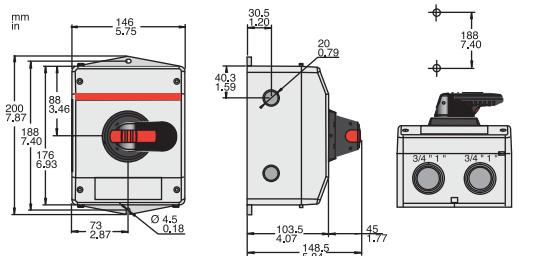
eOT16\_P, eOT32\_P (enclosure size 1)



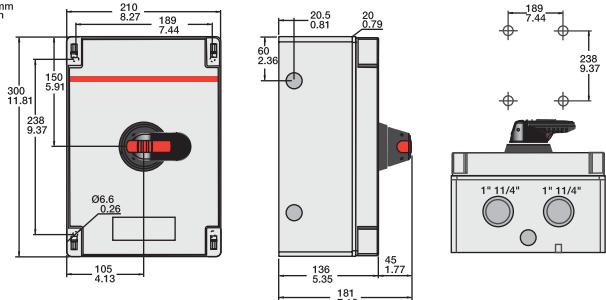
eOT45U\_S (enclosure size 2)



eOT45U\_P (enclosure size 2)



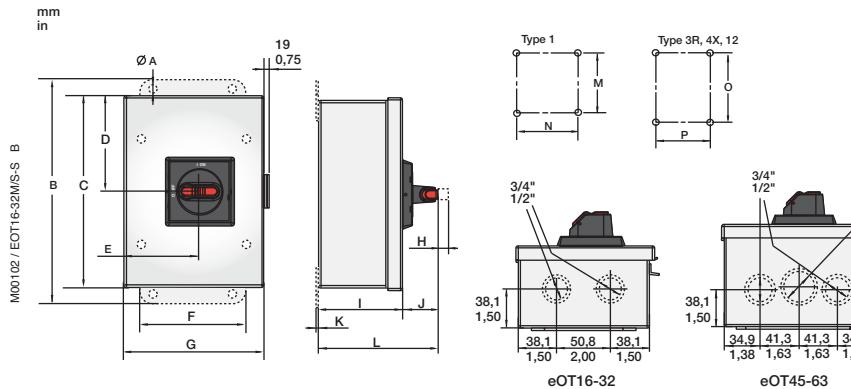
eOT30, 60



## 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]

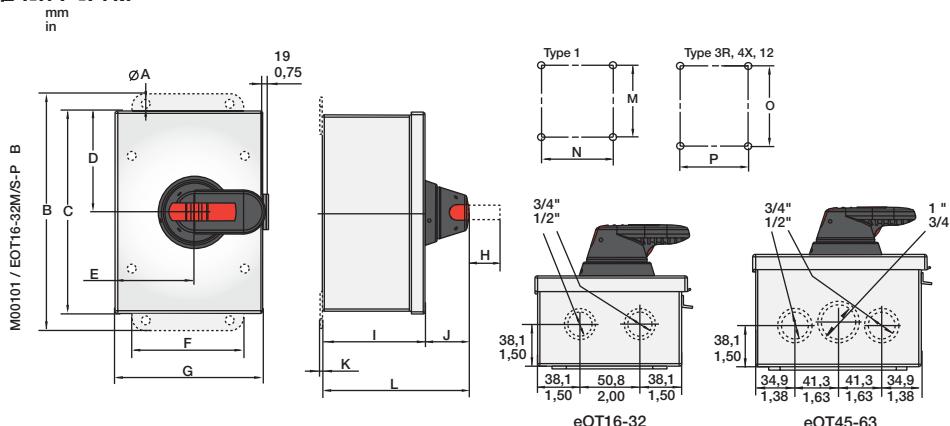
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
7.9/0.31	215.9/8.50	183.4/7.22	91.7/3.61	73.7/2.90	101.6/4.00	134.1/5.28	19.0/0.75	83.3/3.28	35.5/1.36	2.8/0.11	117.9/4.64	101.6/4.0	101.6/4.0	196.9/7.75	76.2/3.00

### 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	36.0/1.42	108.7/4.28	45.0/1.77	2.8/0.11	128.3/5.05	101.6/4.0	101.6/4.0	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

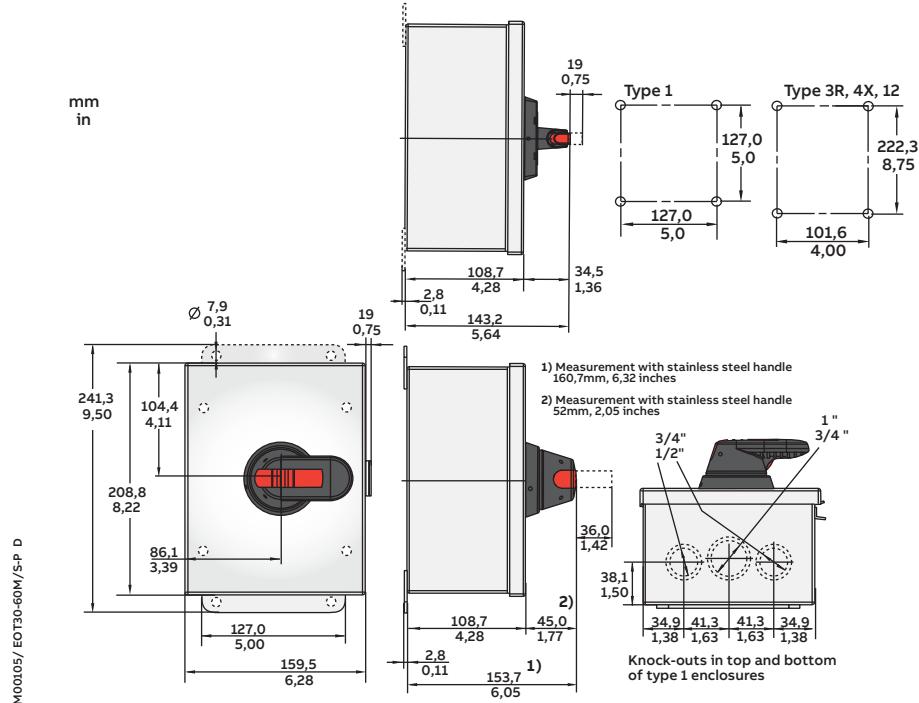
Dimension [mm/in]

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

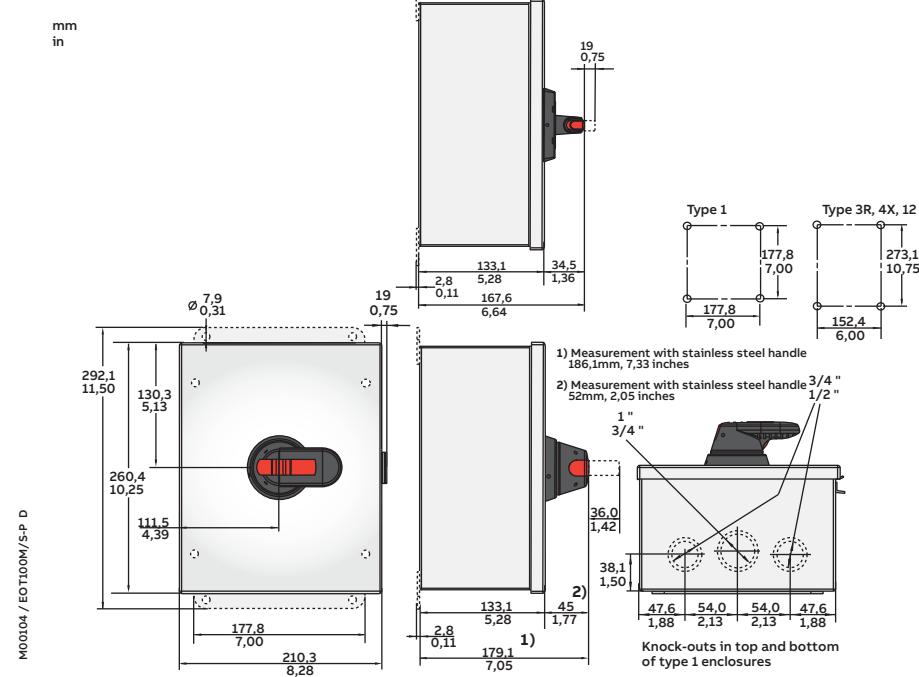
## Dimension drawings

Sheet steel and stainless steel  
enclosed manual motor controllers

eOT30U3\_, eOT60U3\_



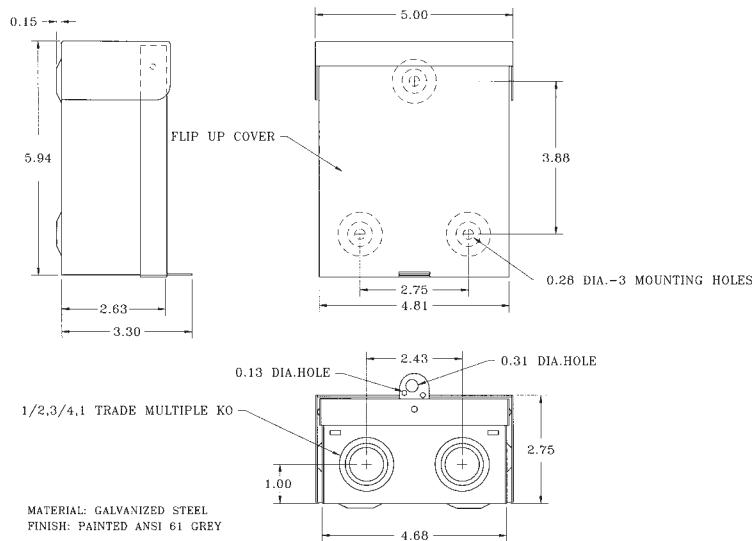
eOT100\_



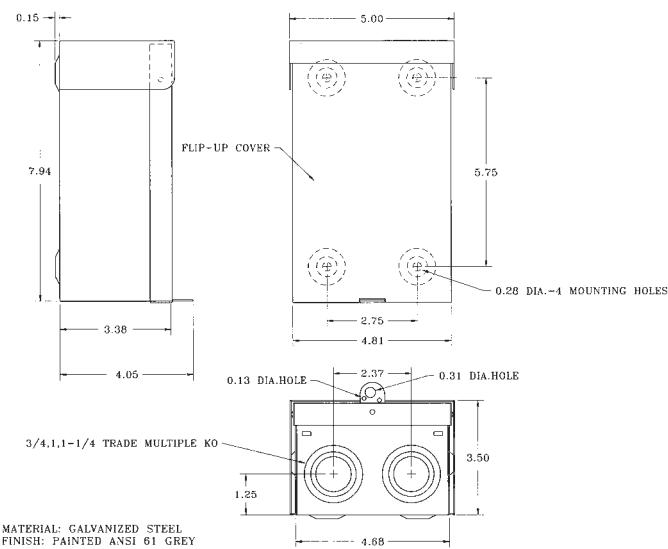
## Dimension drawings

Flipcover enclosed switch with metal enclosures  
enclosed manual motor controllers

**NF163-3, NF403-3**



**NF603-3, NF803-3**



# Manual disconnect switches OT16...160

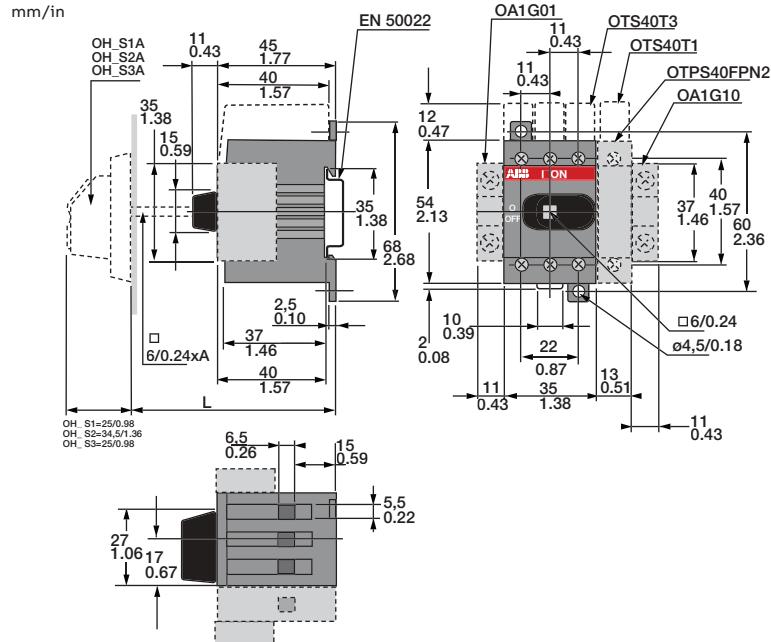
## Dimensional drawings

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

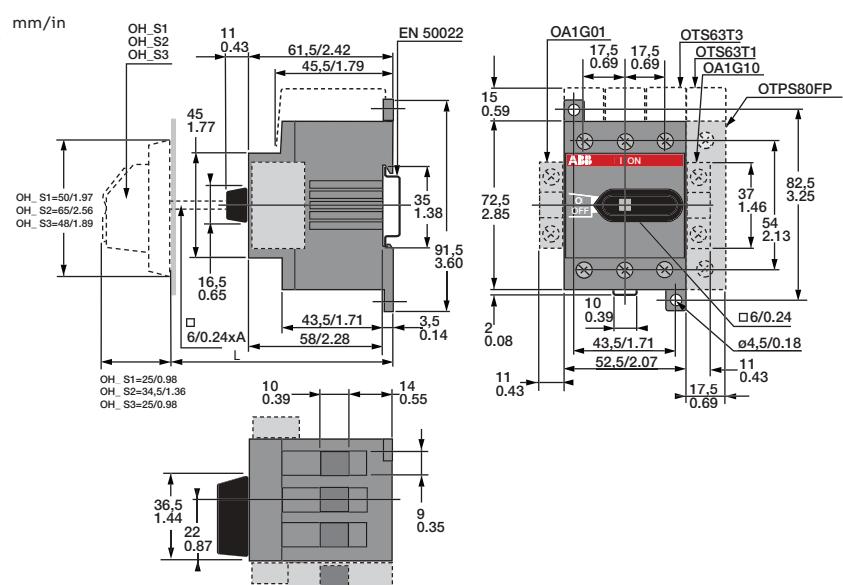
Shafts OX	Handle OZ331_P
A [mm/in]	L min-max
60/2.36	92-120/3.62-4.73
85/3.35	117-145/4.61-5.71
105/4.14	137-165/5.4-6.5
115/4.53	147-175/5.79-6.89
130/5.12	162-190/6.38-7.48
155/6.11	187-215/7.37-8.47
200/7.88	232-260/9.14-10.24
300/11.82	332-360/13.08-14.18



### 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

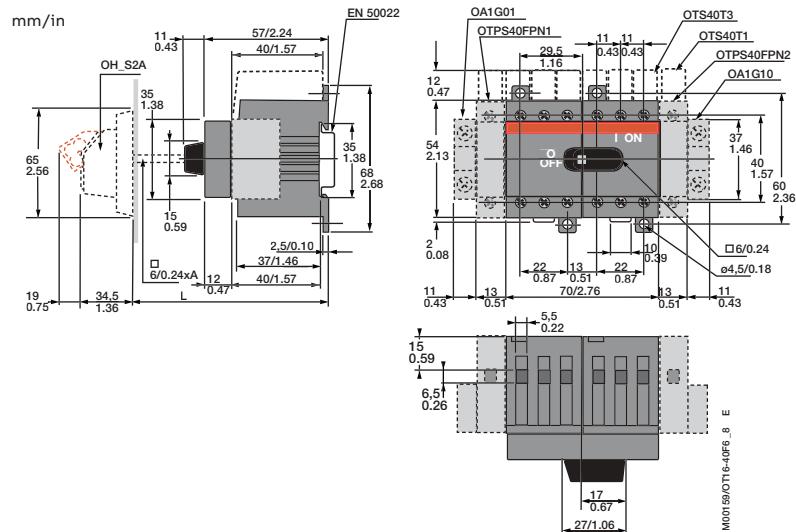
## Dimensional drawings

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



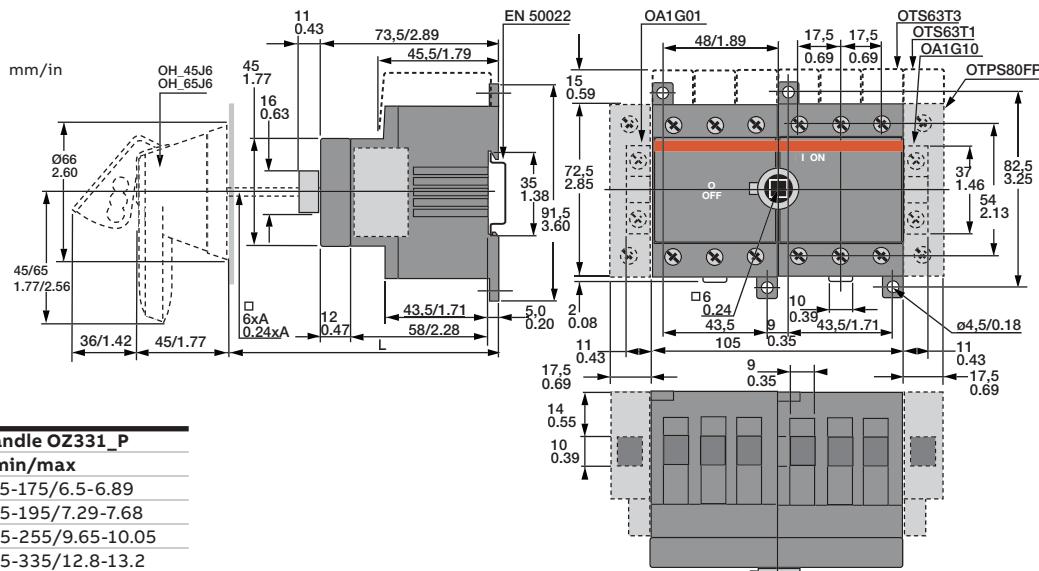
### Shafts OX

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

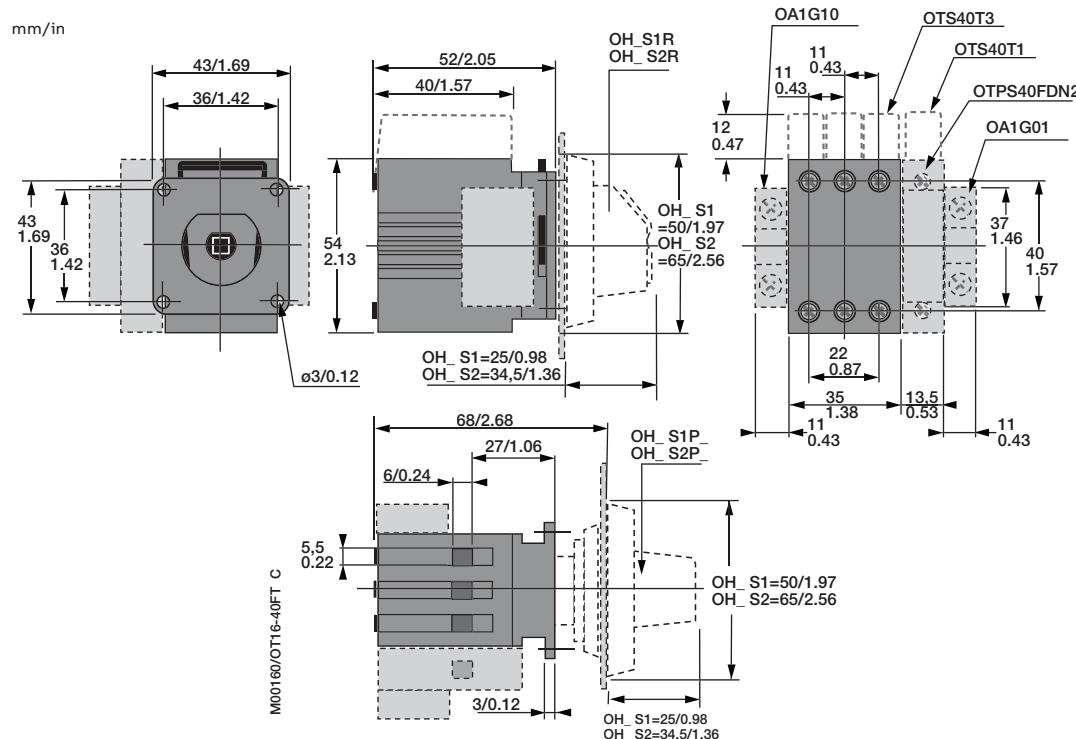


# Manual disconnect switches OT16...160

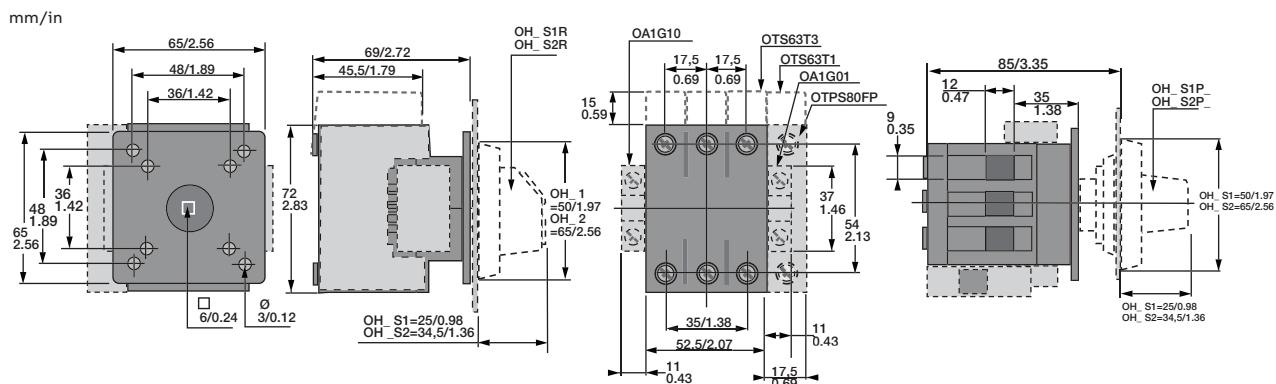
## Dimensional drawings

Front operated disconnect switches, door mounting, IEC

OT16...40FT3, \_FT4, door mounting



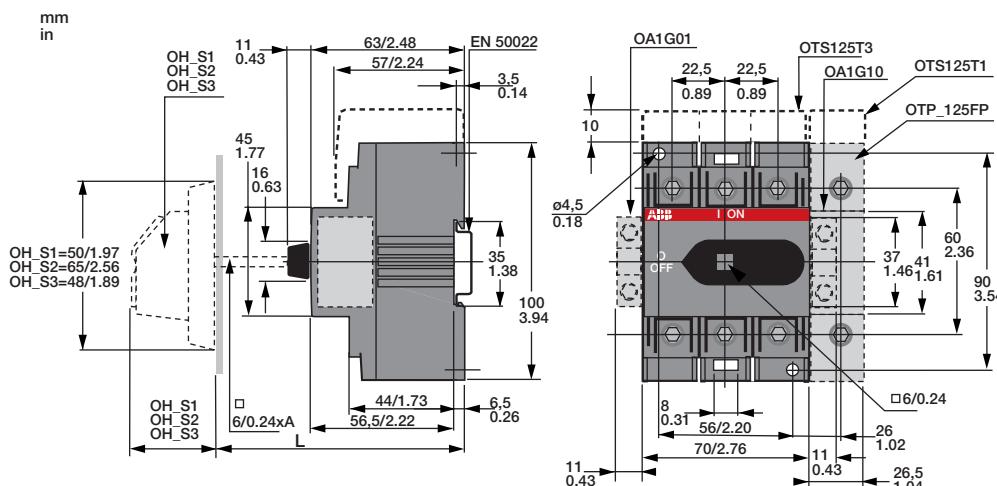
OT63...80FT3, \_FT4, door mounting



# Manual disconnect switches OT16...160

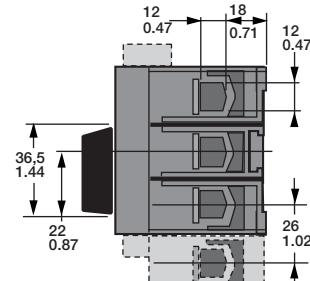
## Dimensional drawings

OT30, 60, 100, F3, \_F4

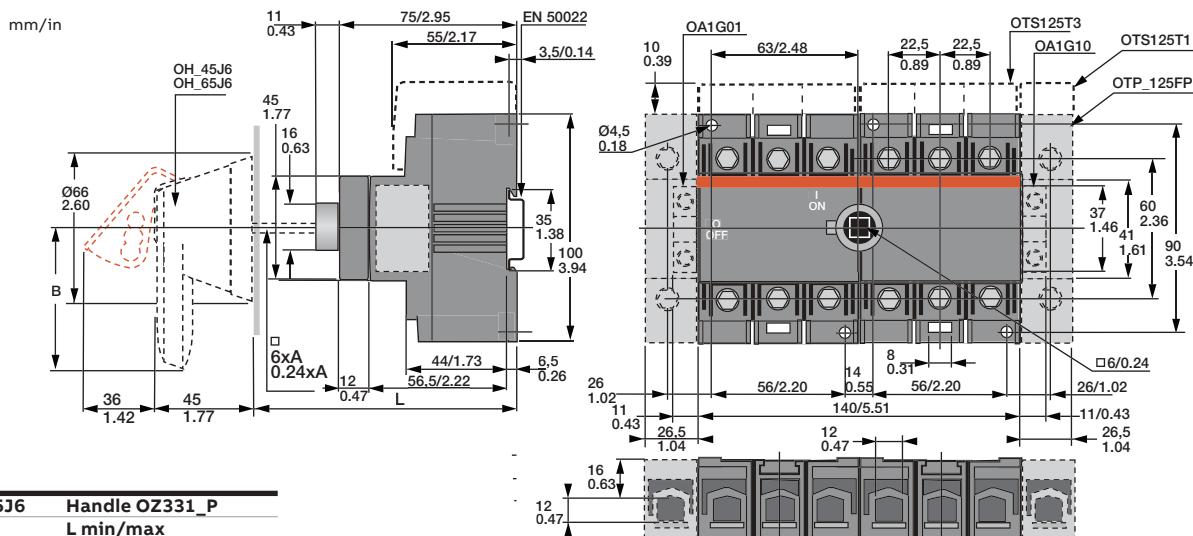


Shafts OXS Handle OH_S2		Handle OH_S1
A [mm/in]	L min-max	L min-max
85/3.35	127-139/5-5.48	113-123/4.45-4.85
105/4.14	147-159/5.79-6.26	133-143/5.24-5.63
120/4.73	162-174/6.38-6.85	148-158/5.83-6.22
130/5.13	172-184/6.77-7.25	158-168/6.22-6.62
160/6.3	202-214/7.96-8.43	188-198/7.4-7.8
180/7.09	222-234/8.75-9.22	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	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



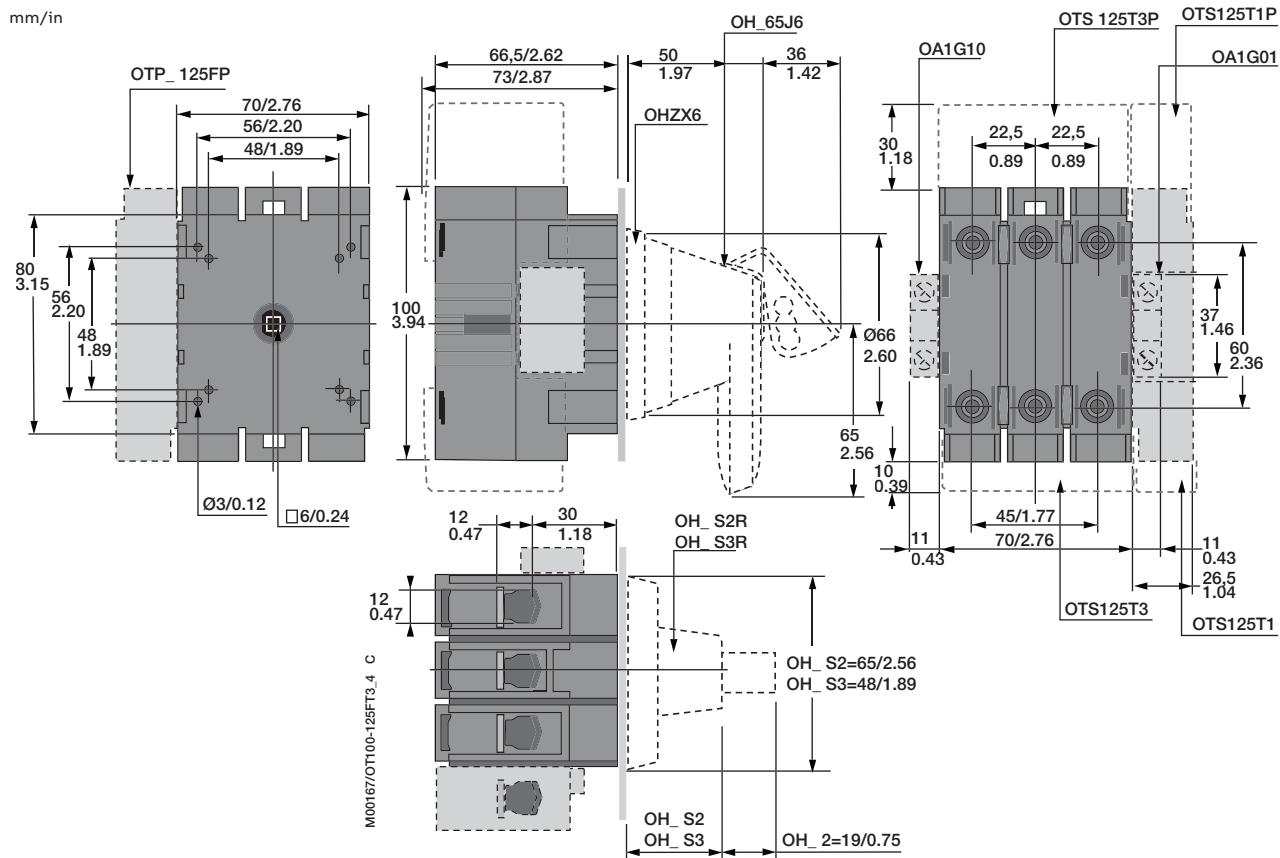
OH_45J6 OH_65J6		Handle OZ331_P
A [mm/in]	L min/max	L min/max
130/5.12	165-175/6.5-6.89	
150/5.91	185-195/7.29-7.68	
210/8.27	245-255/9.65-10.05	
290/11.42	325-335/12.8-13.2	
360/14.18	395-405/15.56-15.96	
430/16.94	465-475/18.32-18.71	

# Manual disconnect switches OT16...160

## Dimensional drawings

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

**OT100, FT3, \_FT4, door mounting**

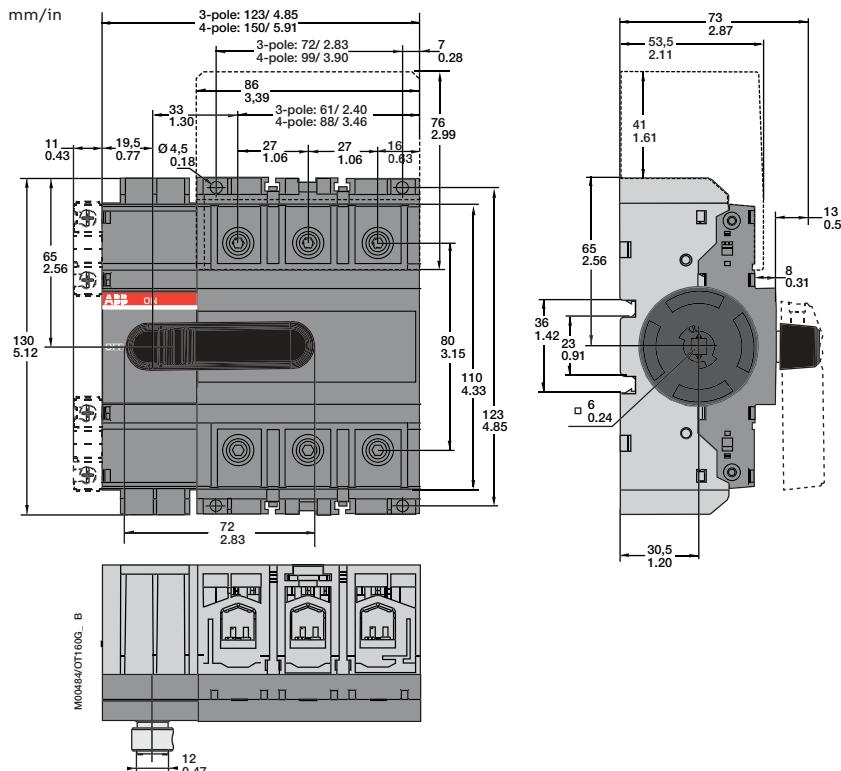


# Manual disconnect switches OT16...160

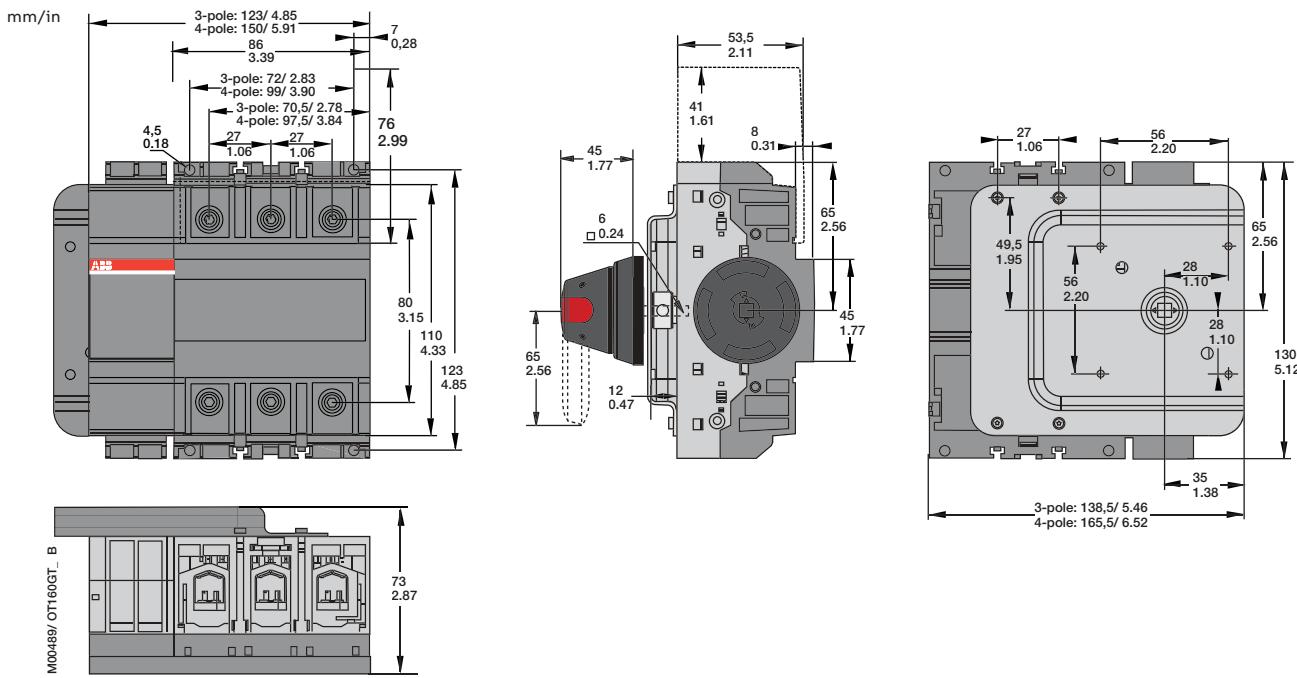
## Dimensional drawings

### OT160G disconnect switches, IEC and UL/CSA

#### OT160G03/04



#### OT160GT03/04

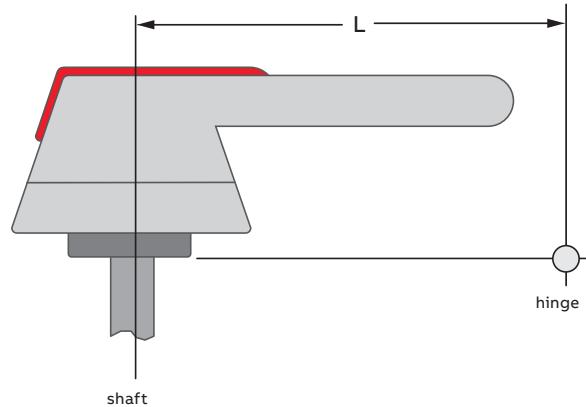


# Manual disconnect switches OT16...160

## Dimensional drawings

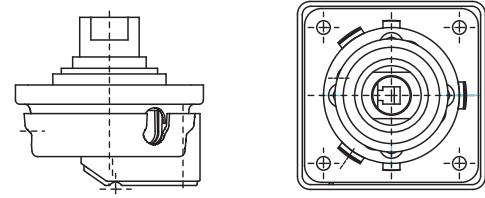
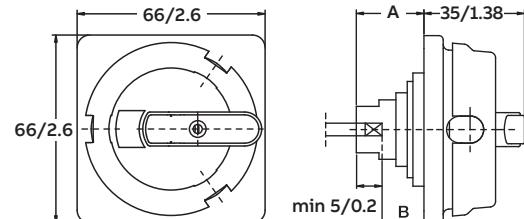
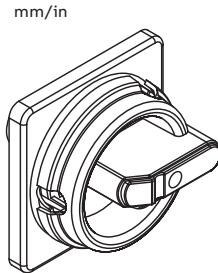
**Minimum distance L between the hinge, handle and shaft**

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

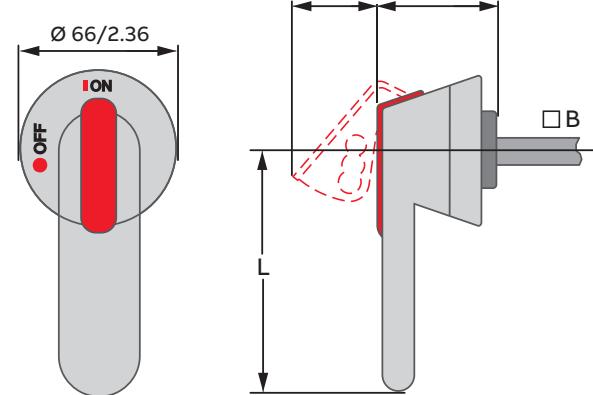
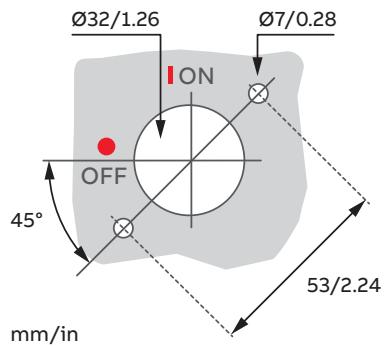


**Pistol handle**

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

mm/in

**Door drilling for OH\_handles:**



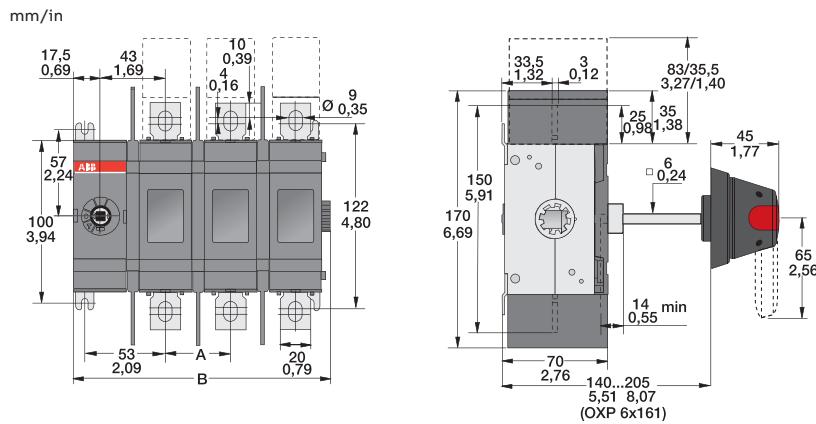
# Manual disconnect switches OT200...2000

## Dimensional drawings

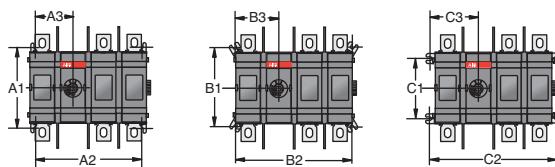
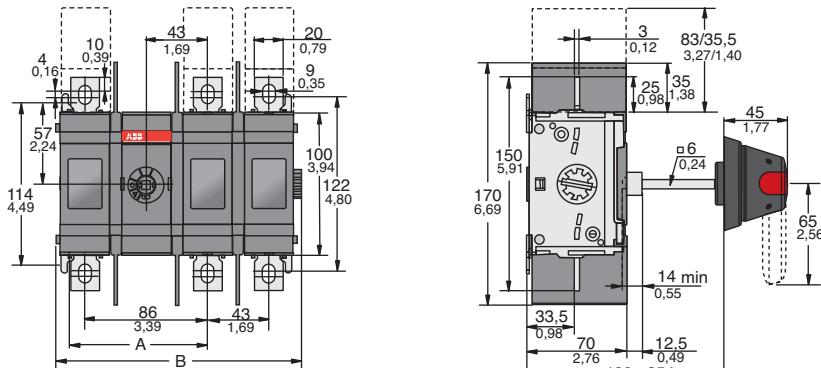
Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA

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



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

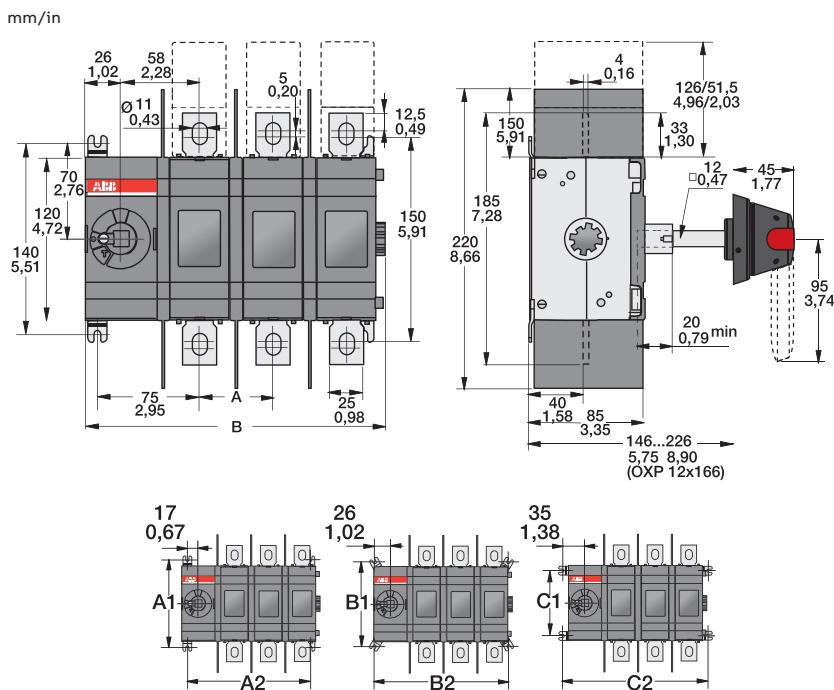
## Dimensional drawings

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

**OT400U\_**

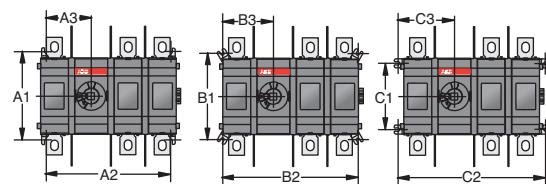
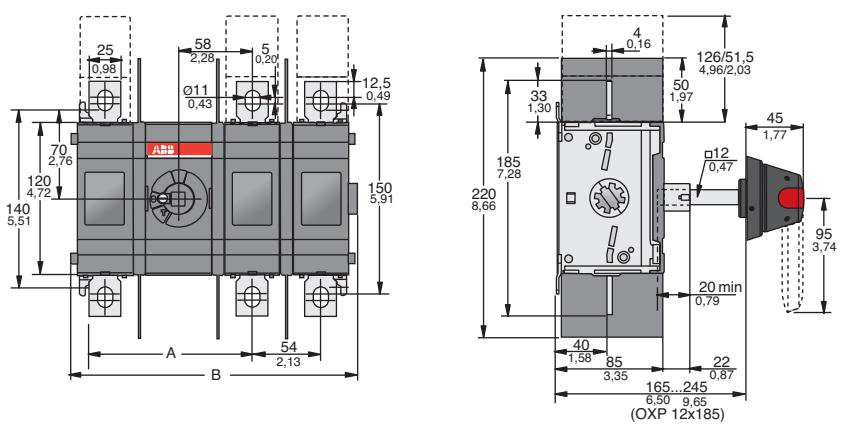
**OT400**

[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



**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

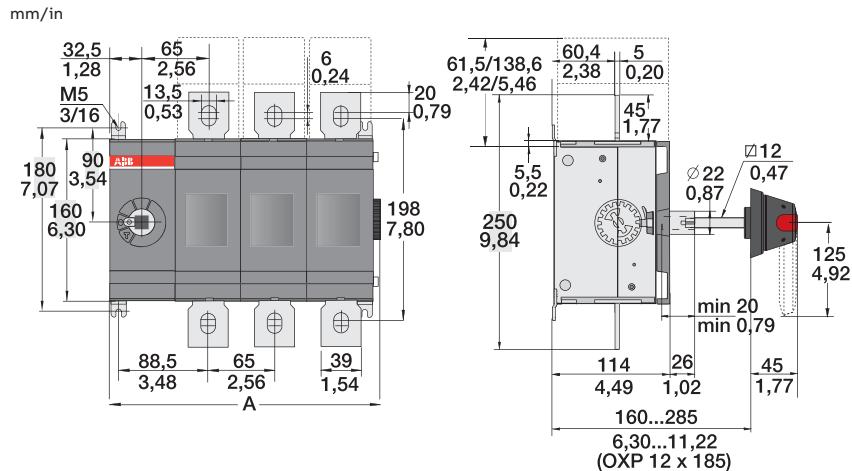
## Dimensional drawings

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

**OT600U\_**

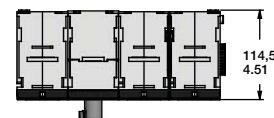
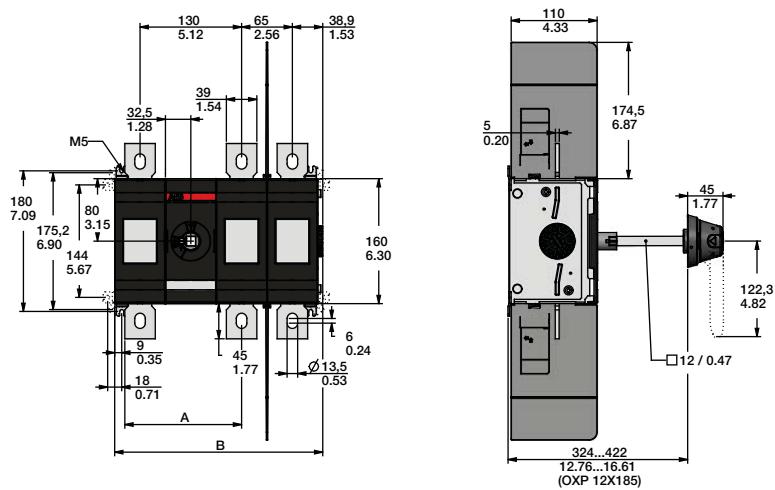
**OT600\_**

[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



**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

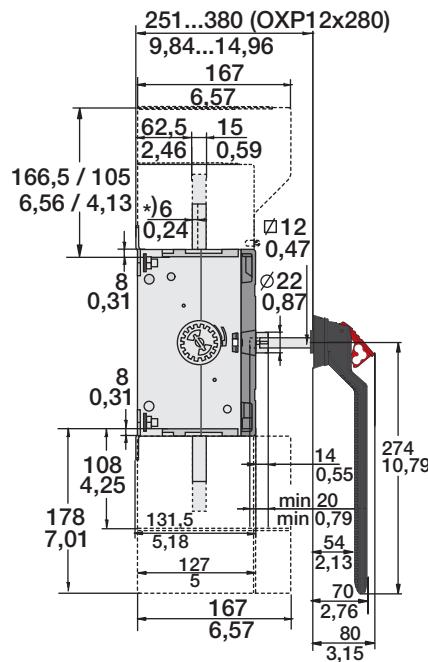
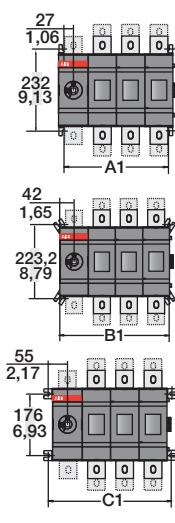
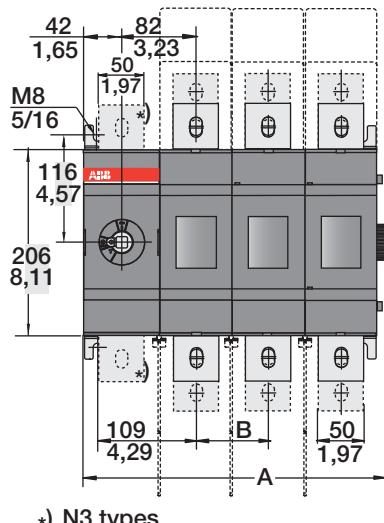
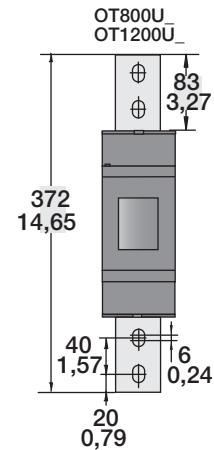
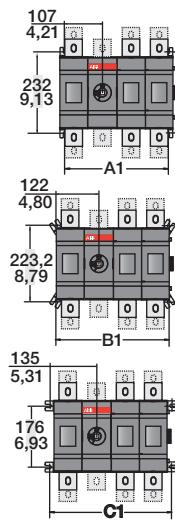
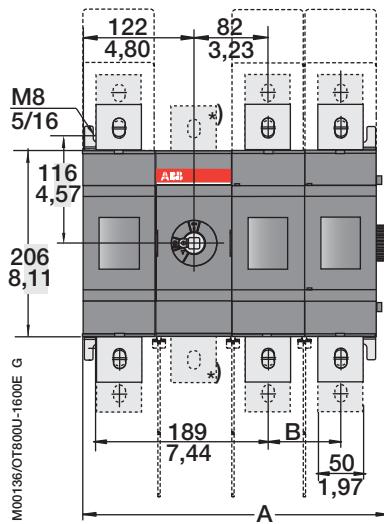


# Manual disconnect switches OT200...2000

## Dimensional drawings

**Front operated non-fusible disconnect switches OT200...2000, base mounting, UL/CSA  
OT800U\_P and OT1200U\_P**

mm/in

**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	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

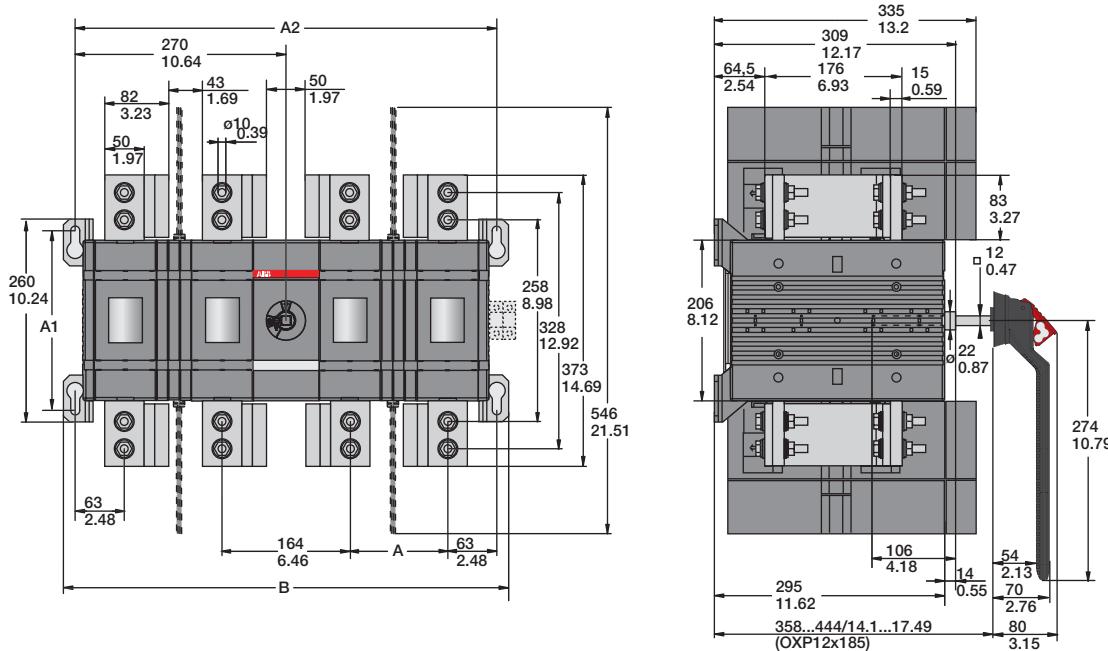
## Dimensional drawings

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

### OT1600...2000U

Mechanism between the poles

mm/in



### OT1600-2000U

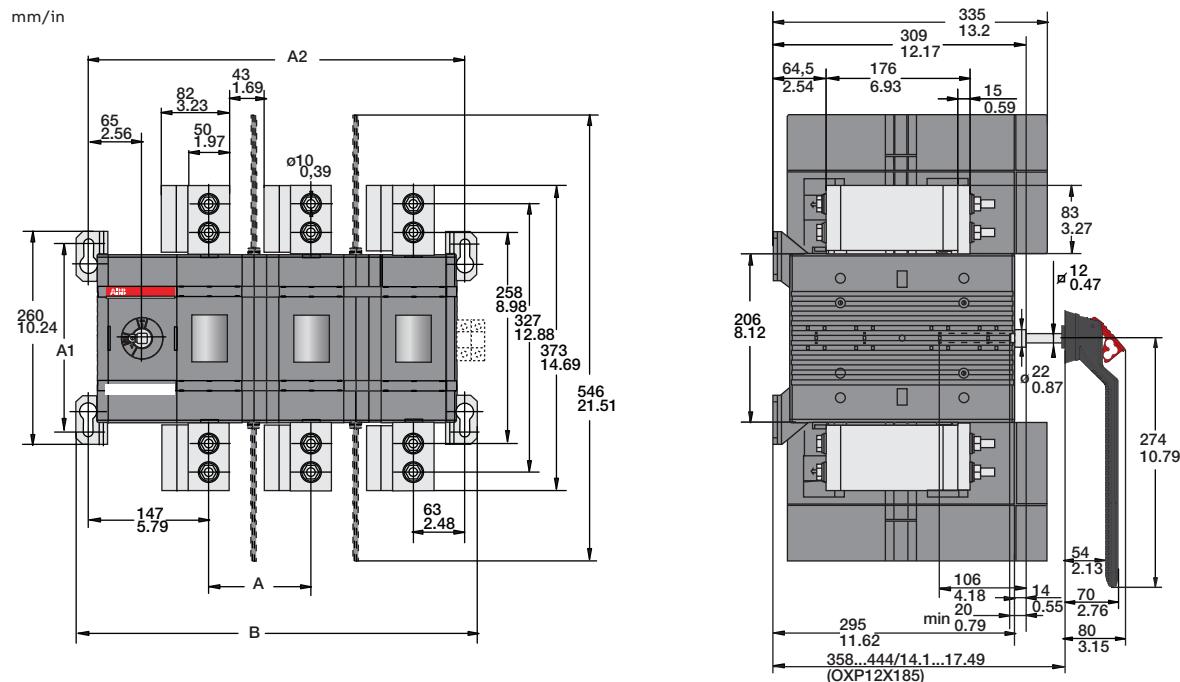
[mm/in]	12	13	22
A	125/4.92	125/4.92	125/4.92
A1	230/9.06	230/9.06	230/9.06
A2	415/16.35	540/21.27	540/21.27
B	445/17.53	570/22.46	570/22.46

# 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



**OT1600-2000U**

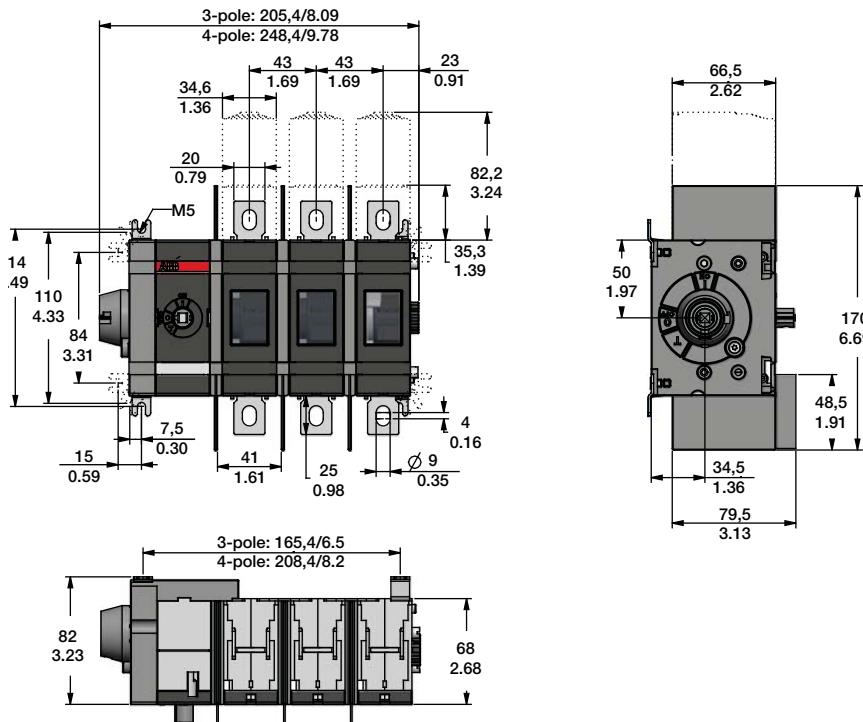
[mm/in]	02	03	04
A	125/4.92	125/4.92	125/4.92
A1	230/9.06	230/9.06	230/9.06
A2	335/13.2	460/18.12	585/23.05
B	365/14.38	490/19.3	615/24.23

# Manual disconnect switches OT200...2000

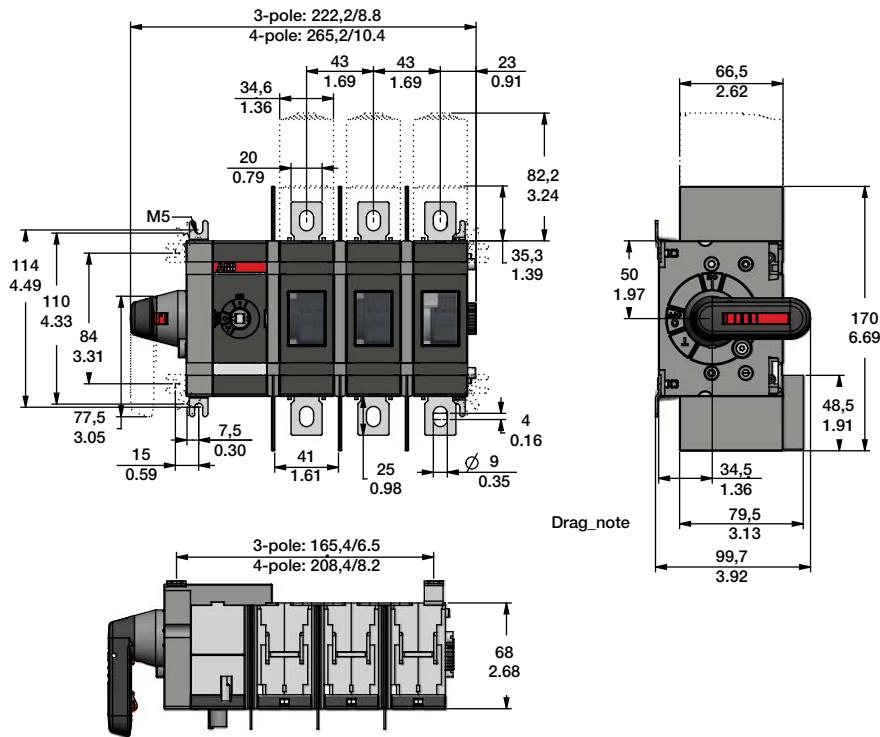
## Dimensional drawings

**OT200US**

Without handle  
mm/in

**OT200US**

With direct mount handle  
mm/in

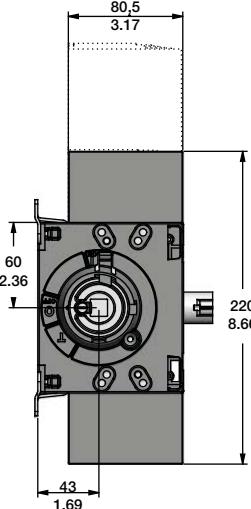
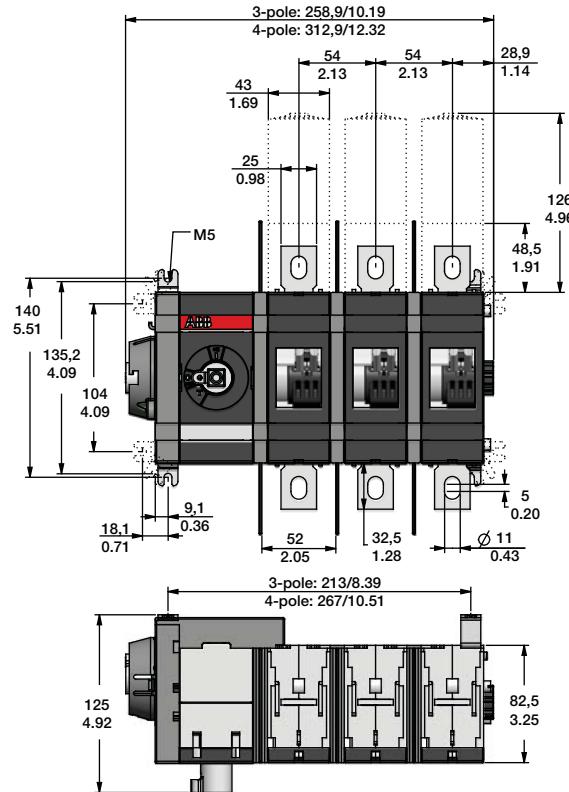


# Manual disconnect switches OT200...2000

## Dimensional drawings

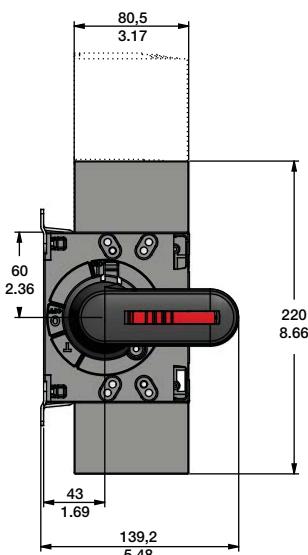
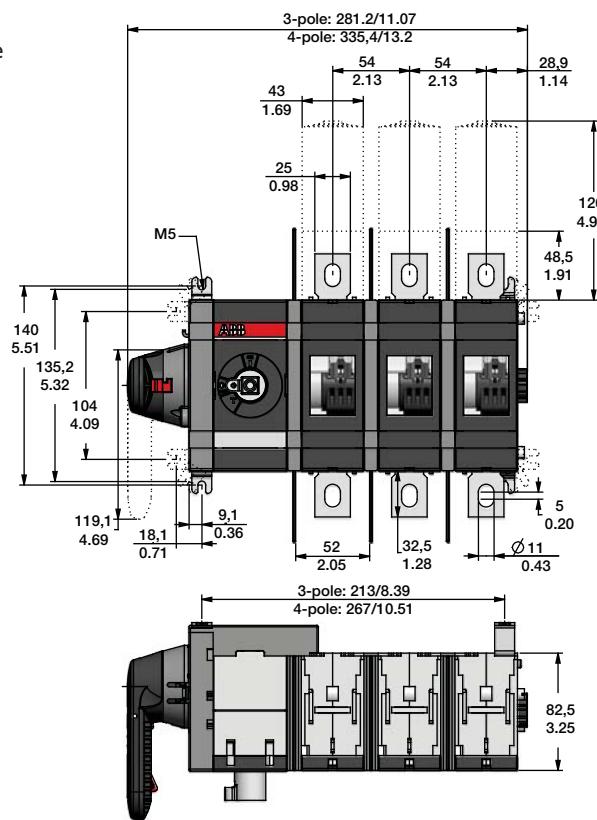
### OT400US

Without handle  
mm/in



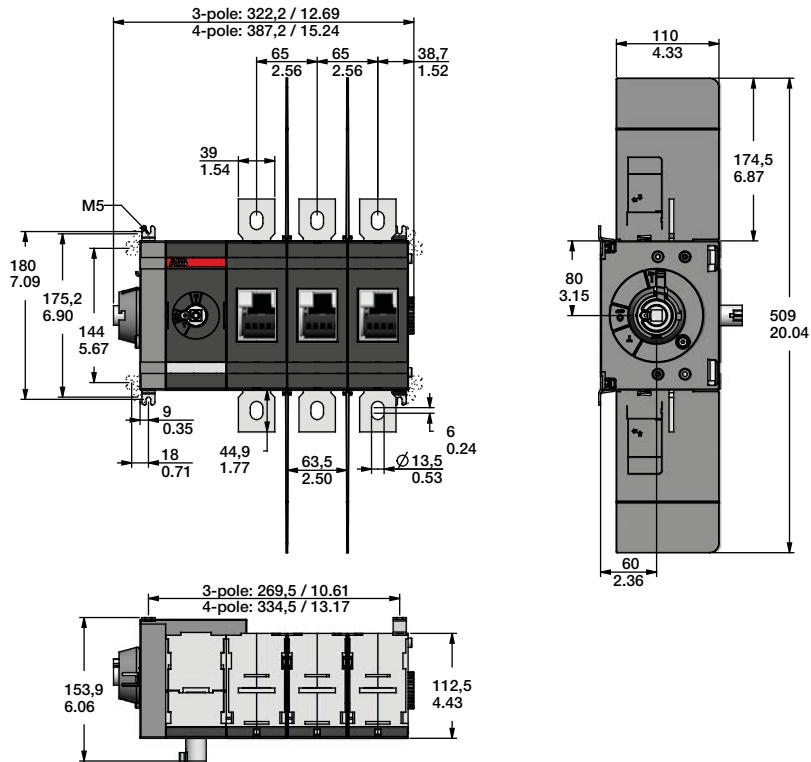
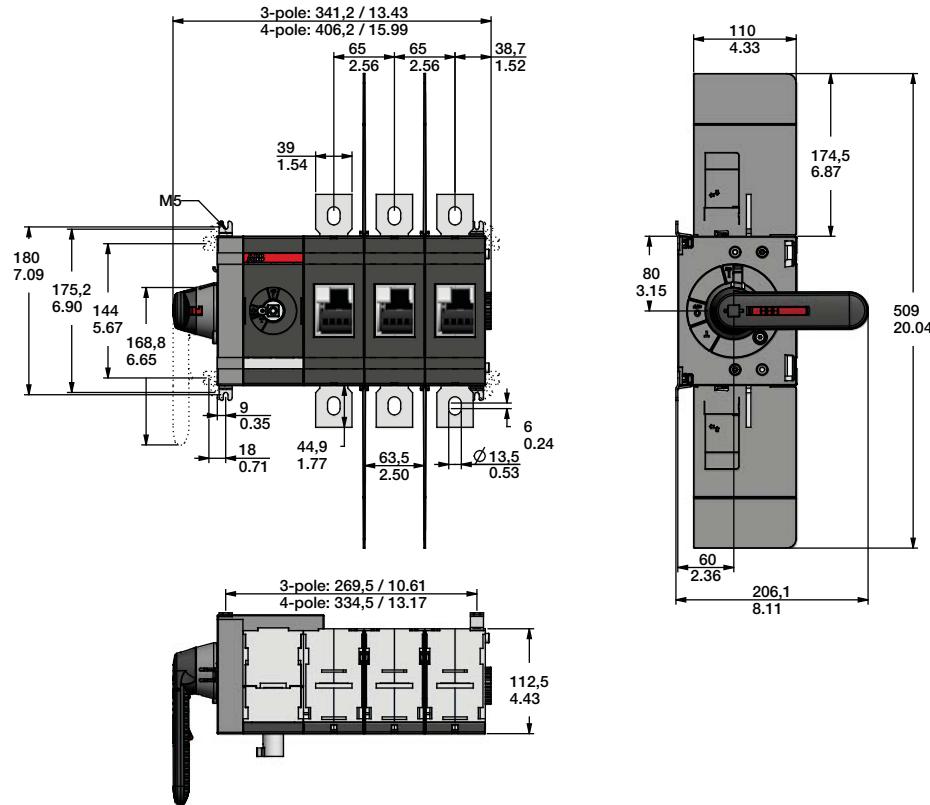
### OT400US

With direct mount handle  
mm/in



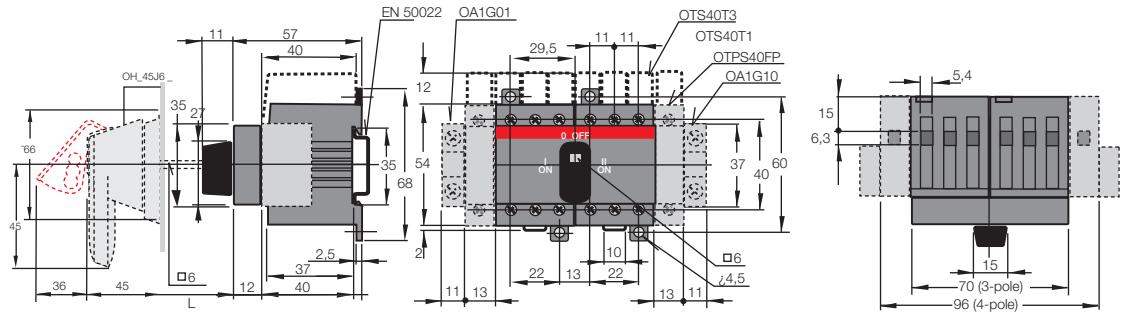
# Manual disconnect switches OT200...2000

## Dimensional drawings

**OT600US**Without handle  
mm/in**OT600US**With direct mount handle  
mm/in

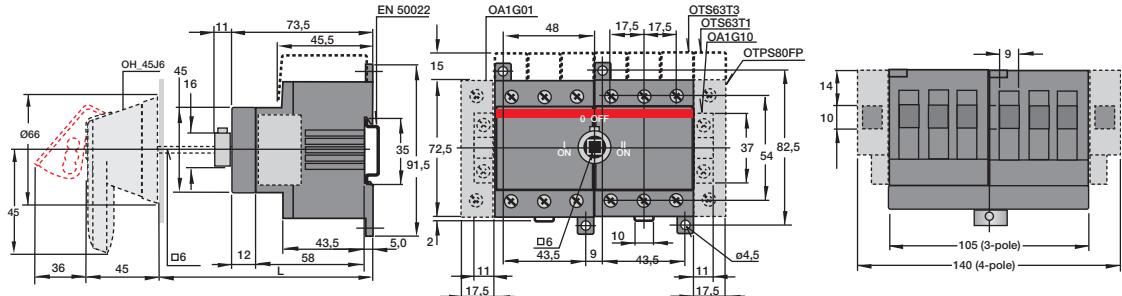
# Modular change-over switches

## Dimensional drawings

**OT16...40F\_C**

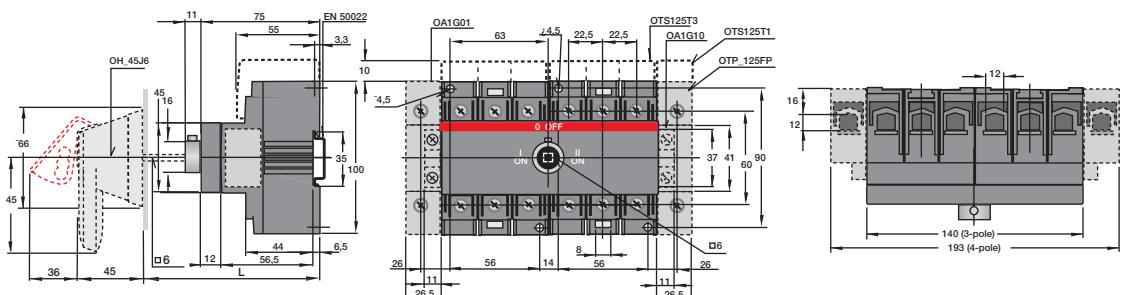
Selector handle OH_S2AJE011	
Shaft OXS6X	Installation depth [mm]
85	103...114
105	123...134
120	138...149
<b>130</b>	<b>148...159</b>

Pistol handle OH_45J6E311	
Shaft OXP6X	Installation depth [mm]
150	164...175
170	184...195
265	279...290
<b>400</b>	<b>414...425</b>

**OT63...80F\_C**

Selector handle OH_S2AJE011	
Shaft OXS6X	Installation depth [mm]
85	121...131
105	141...151
120	156...166
<b>130</b>	<b>166...176</b>

Pistol handle OH_45J6E311	
Shaft OXP6X	Installation depth [mm]
150	183...194
170	203...214
265	298...309
<b>400</b>	<b>433...444</b>

**OT100F\_C**

Selector handle OH_S2AJE011	
Shaft OXS6X	Installation depth [mm]
85	120...130
105	140...150
120	155...165
<b>130</b>	<b>165...175</b>

Pistol handle OH_45J6E311	
Shaft OXP6X	Installation depth [mm]
150	192...206
170	212...226
265	307...321
<b>400</b>	<b>442...456</b>

# 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

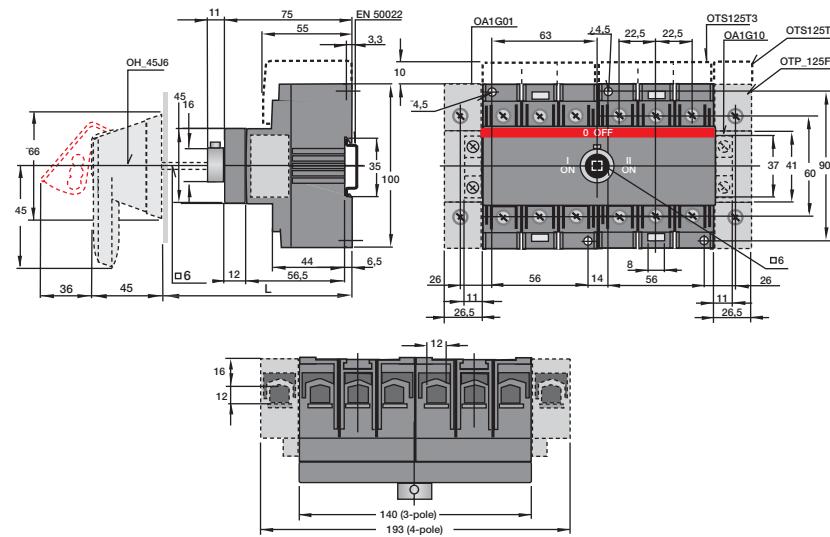
**Pistol handle OH\_45J6E311****Shaft OXP6X\_ Installation depth [mm]**

150 192...206

170 212...226

265 307...321

400 442...456

**OT200U03/04CP****OT200\_C\_****[mm/in] U03 U04**

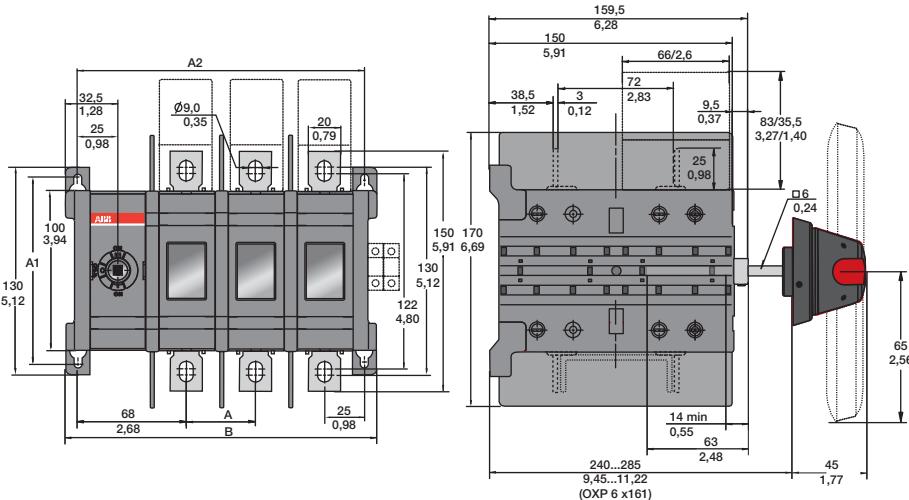
A 43/1.69 43/1.69

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**

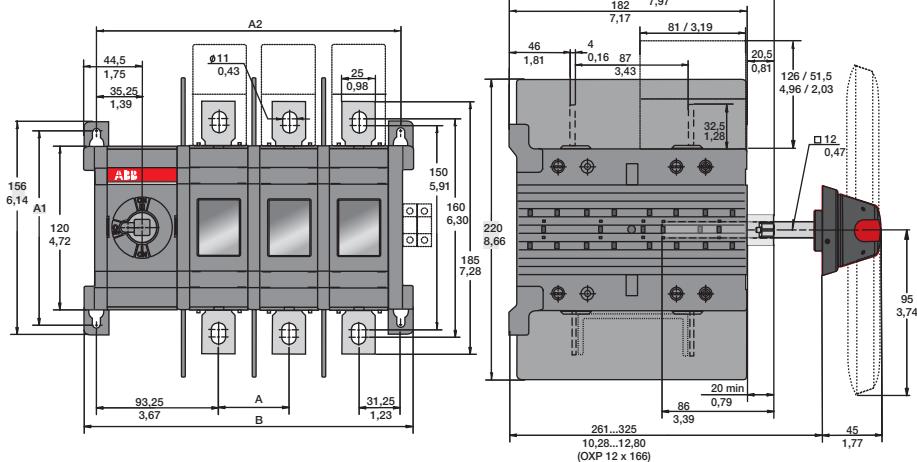
A 54/2.13 54/2.13

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



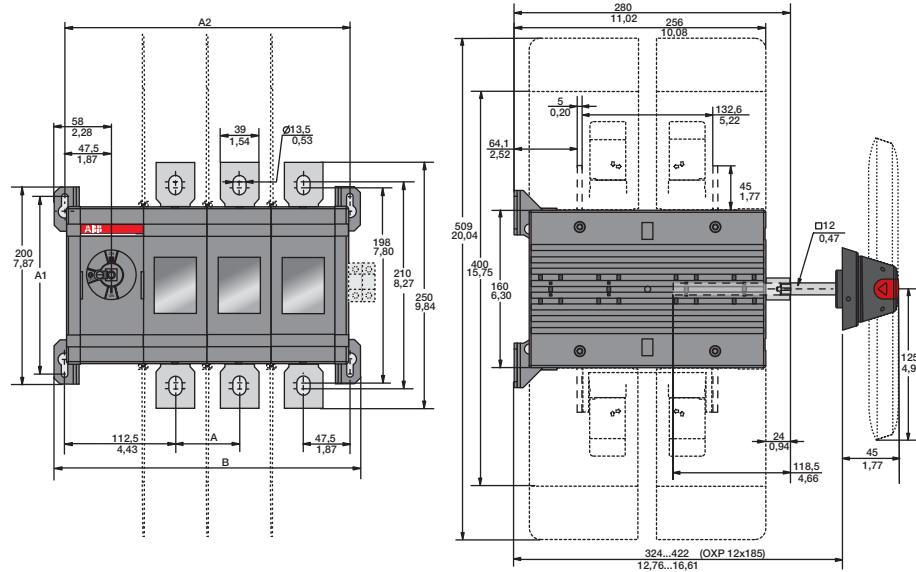
# Manual change-over switches

## Dimensional drawings for UL/CSA - types

**OT600U03/04CP****OT600\_C\_**

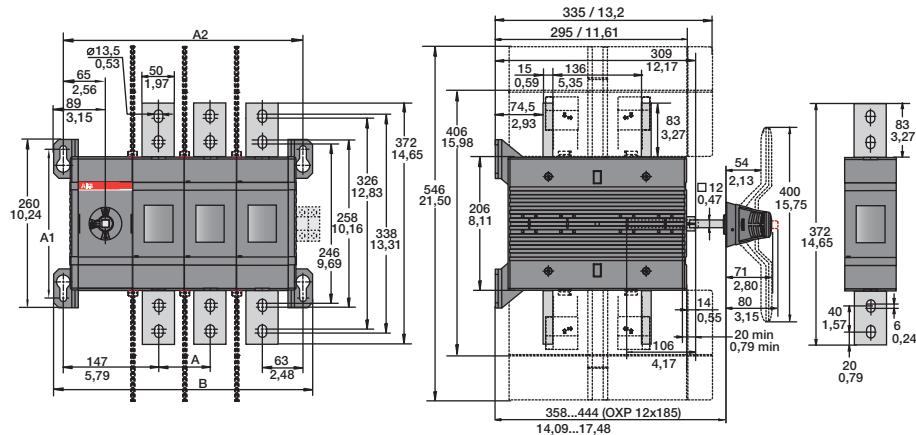
[mm/in]	U03	U04
A	65/2.56	65/2.56
A1	180/7.09	180/7.09
A2	290/11.42	355/13.98
B	311/12.24	376/14.80

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

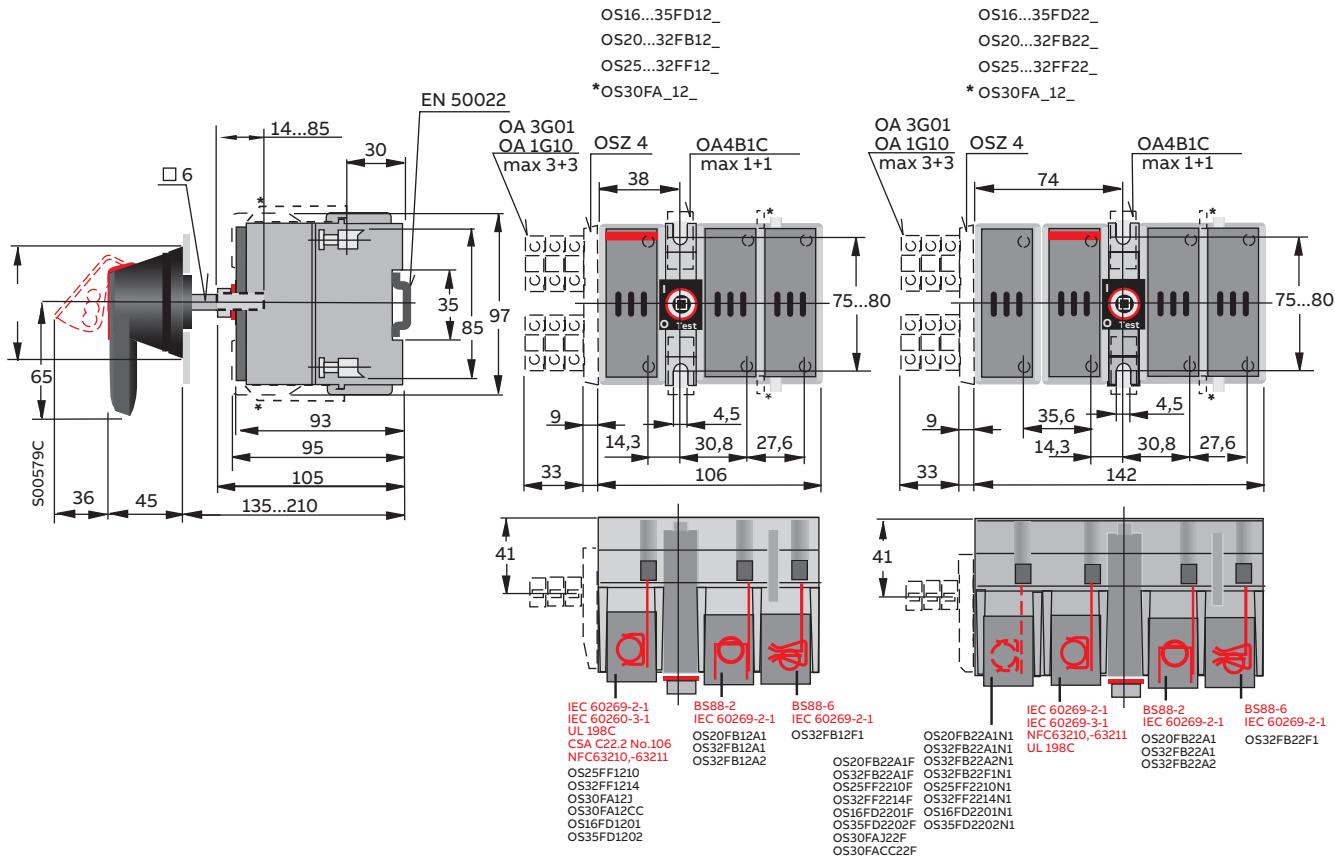
M00156 / OT800-1200U\_C-1 C/ES



# Front operated fusible disconnect switches, IEC and UL/CSA

## Dimensional drawings

**OS30FA\_**

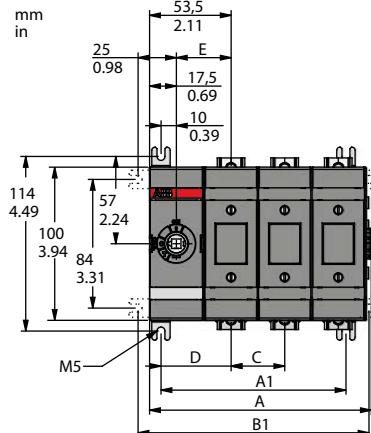


# Front operated fusible disconnect switches, UL/CSA

## Dimensional drawings

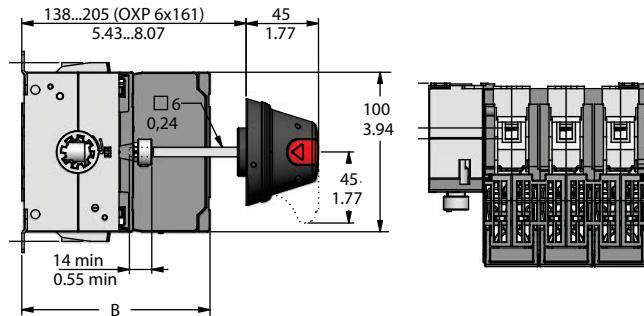
### OS60GJ\_

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

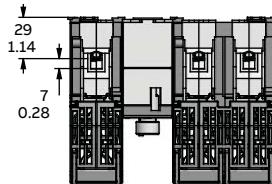
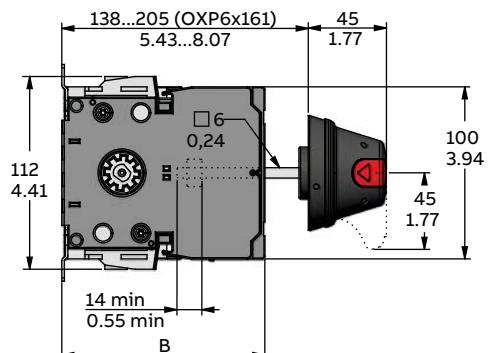
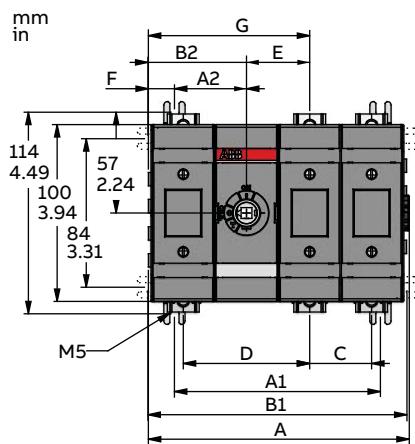


### OS60GJ\_

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	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

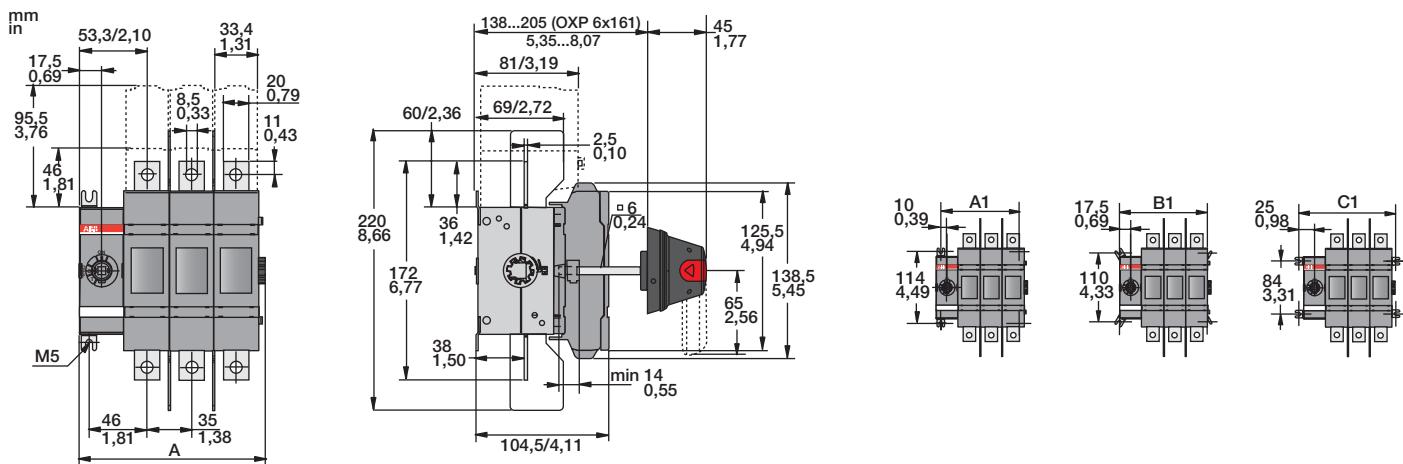


# Front operated fusible disconnect switches, UL/CSA

## Dimensional drawings

### OS100GJ\_

Mechanism at the end of the fusible disconnect switch

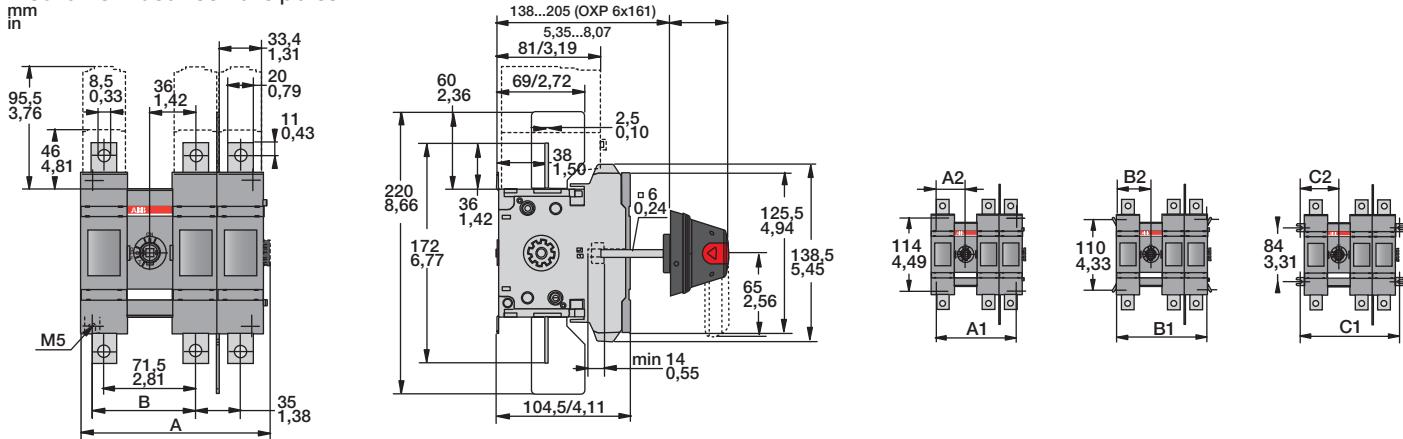


### OS100G

[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

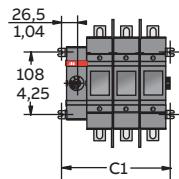
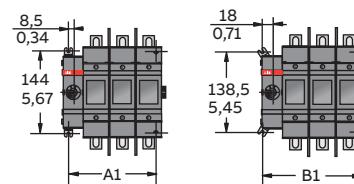
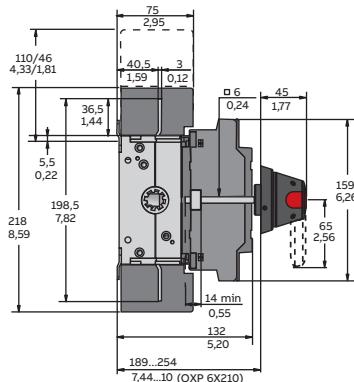
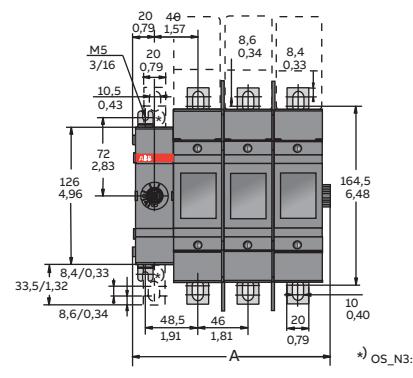
## Dimensional drawings

### 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

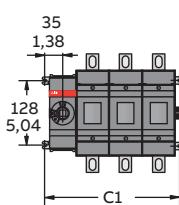
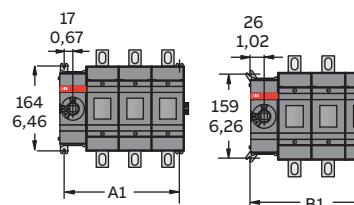
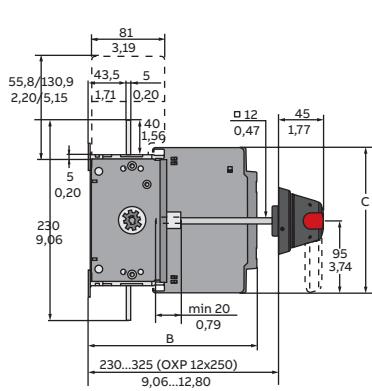
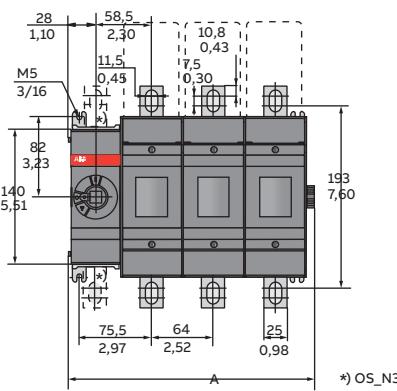


### OS400J\_

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

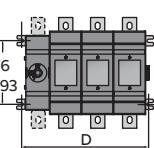
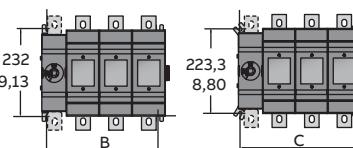
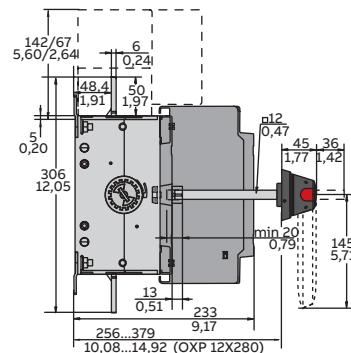
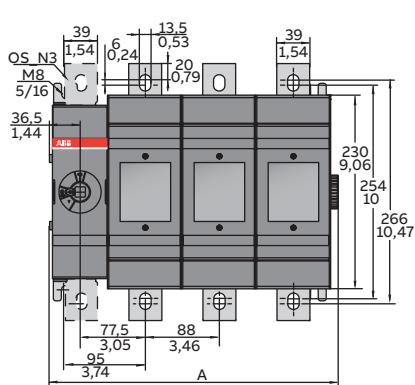
## Dimensional drawings

### OS600J and OS800L

Mechanism at the end of the fusible disconnect switch

### OS600-800

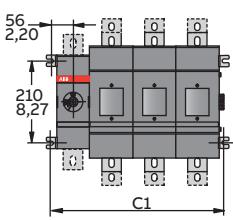
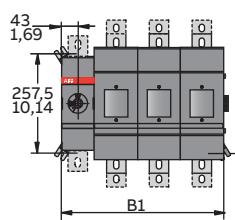
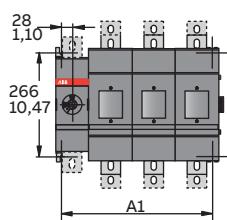
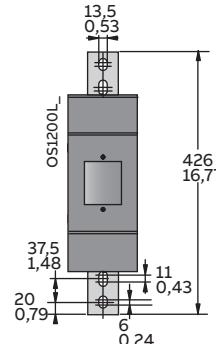
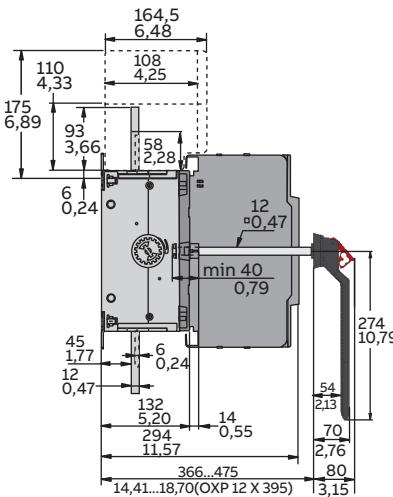
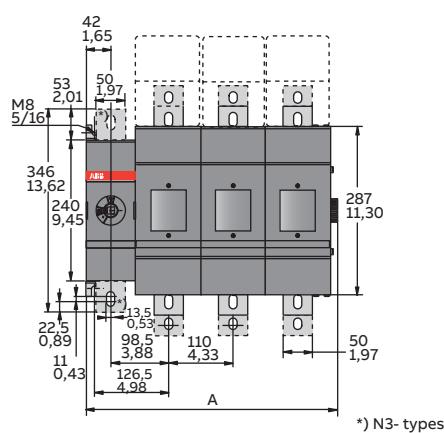
[mm/in]	J/L01	J/L02	J/L03	J/L04
A	167/6.57	255/10.04	343/13.50	431/16.97
B	120/4.72	208/8.19	296/11.65	384/15.12
C	150/5.91	238/9.37	326/12.83	414/16.30
D	176/6.93	264/10.39	352/13.86	440/17.32



### OS1200L

### OS1200

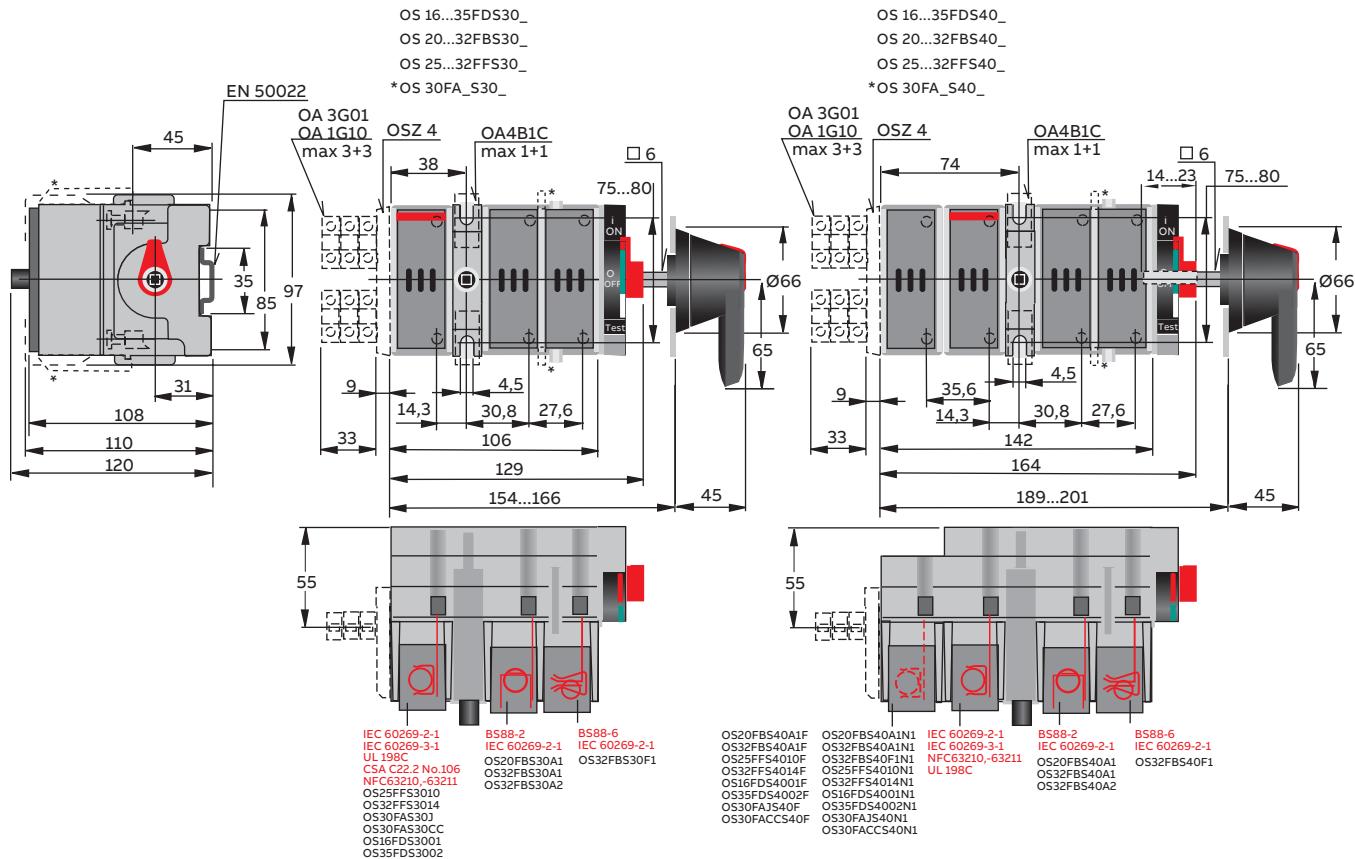
[mm/in]	L01	L02	L03	L04
A	209/8.23	319/12.56	429/16.89	539/21.22
A1	166/6.54	276/10.87	386/15.20	496/19.53
B1	196/7.72	306/12.05	416/16.38	526/20.71
C1	222/8.74	332/13.07	442/17.40	552/21.73



# Side operated fusible disconnect switches, IEC and UL/CSA

## Dimensional drawings

**OS 30FA\_S\_**



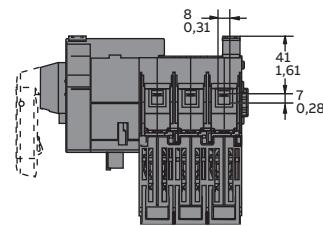
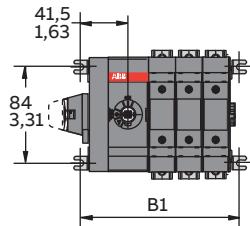
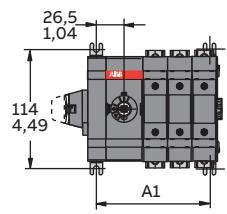
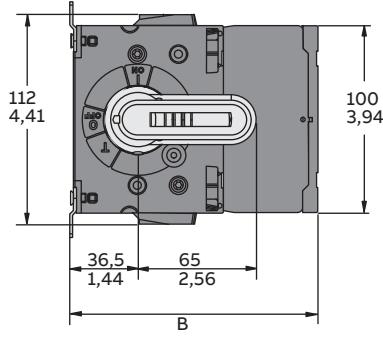
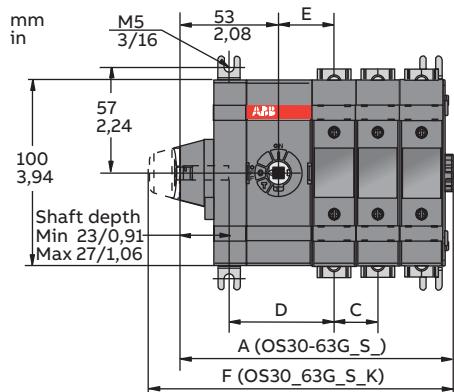
# Side operated fusible disconnect switches, IEC and UL/CSA

## 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	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

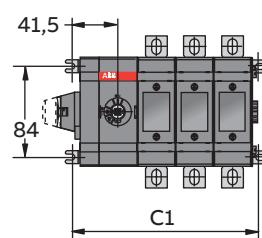
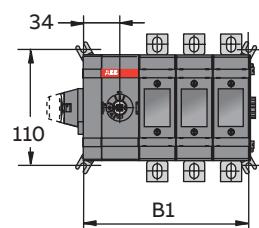
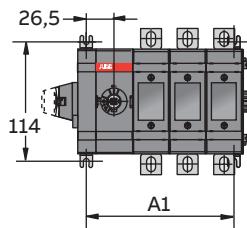
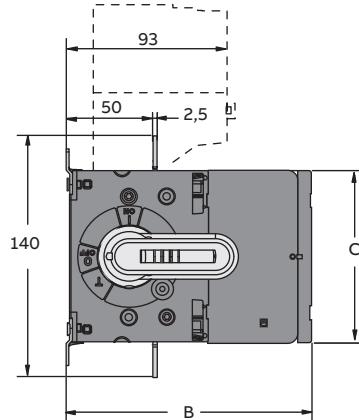
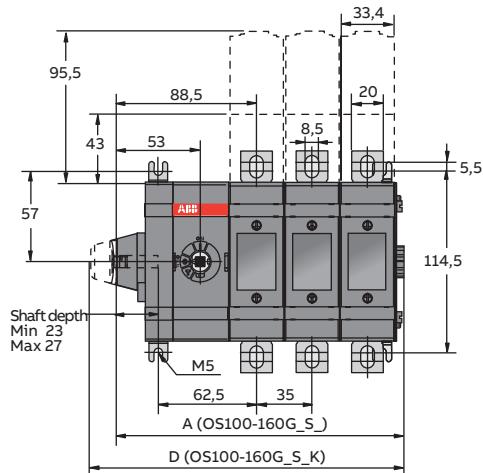


# Side operated fusible disconnect switches, IEC and UL/CSA

## 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

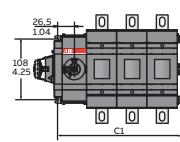
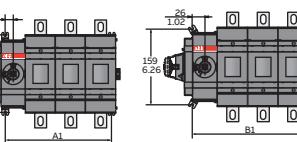
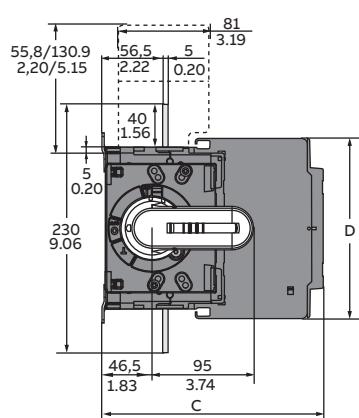
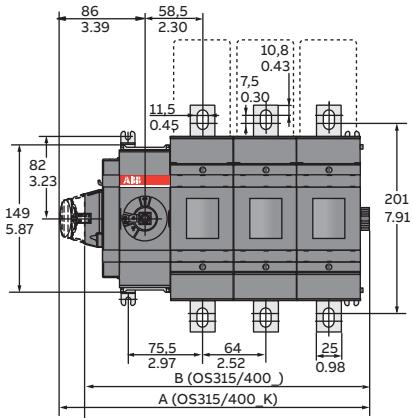


# Side operated fusible disconnect switches, IEC and UL/CSA

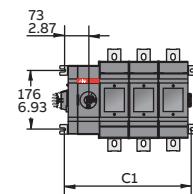
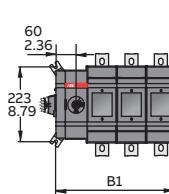
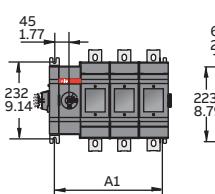
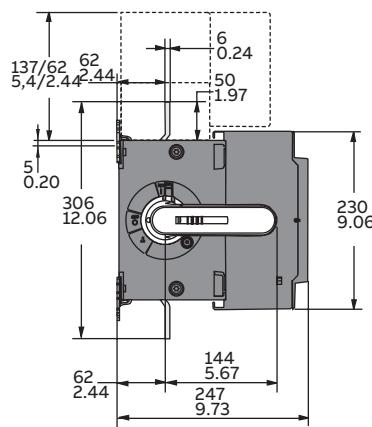
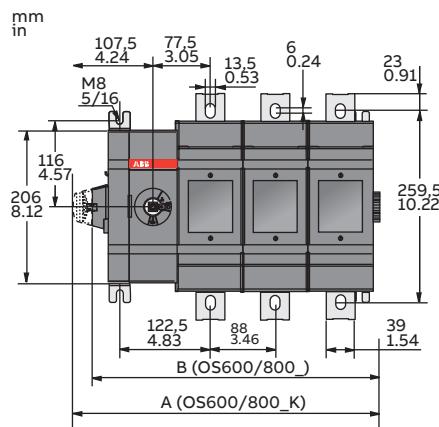
## Dimensional drawings

**OS400\_S\_****OS400, OS400\_K**

[mm/in]	<b>JS01</b>	<b>JS02</b>	<b>JS03</b>	<b>JS04</b>
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**

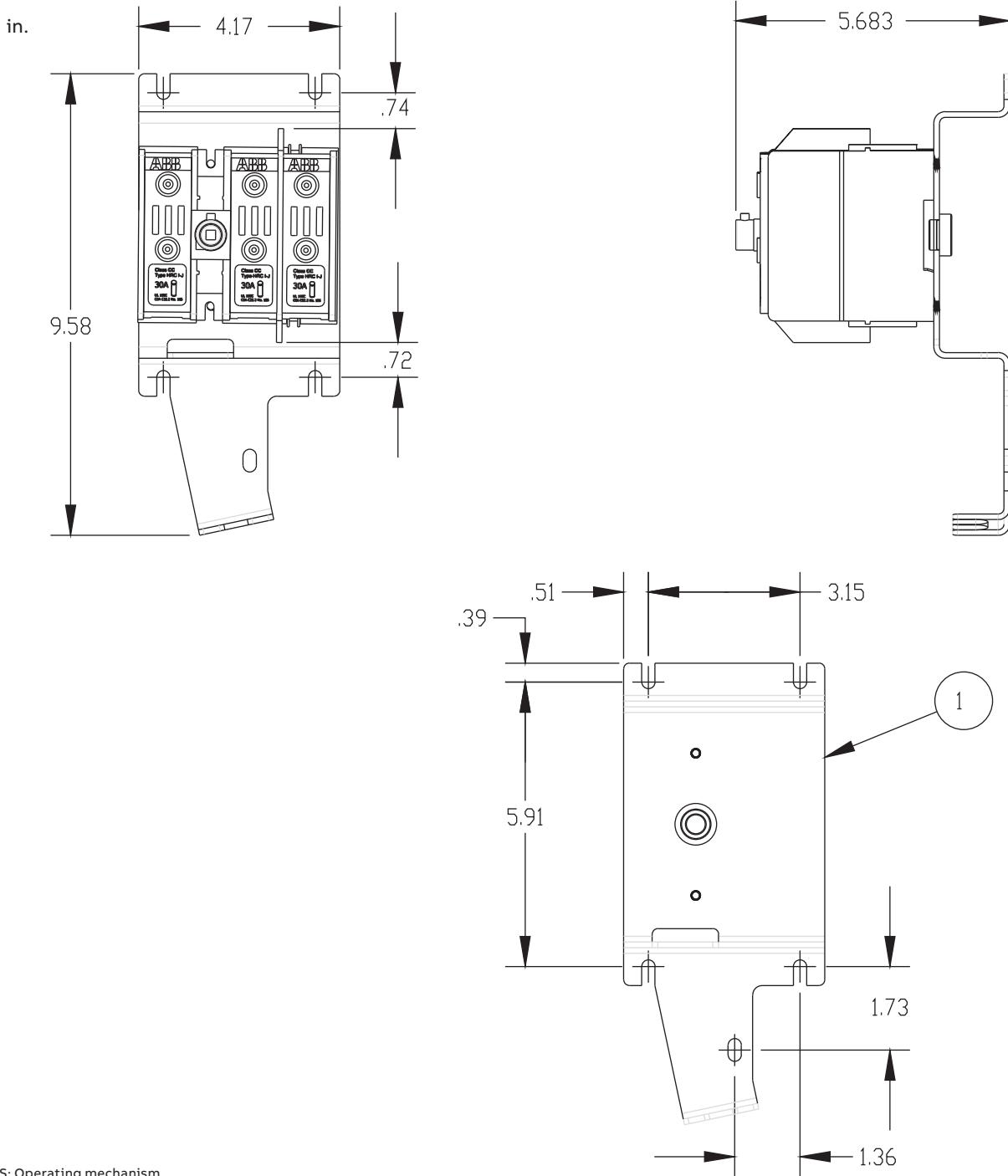
[mm/in]	<b>JS01</b>	<b>JS02</b>	<b>JS03</b>	<b>JS04</b>
A	238.0/9.38	326.0/12.84	414.0/16.31	502.0/19.78
B	213.0/8.39	301.0/11.86	389.0/15.32	477.0/18.79
A1	147.5/5.81	235.5/9.28	323.5/12.75	411.5/16.21
B1	177.5/6.99	265.5/10.46	353.5/13.93	441.5/17.39
C1	203.5/8.02	291.5/11.48	379.5/14.95	467.5/18.42



# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS30FACC12

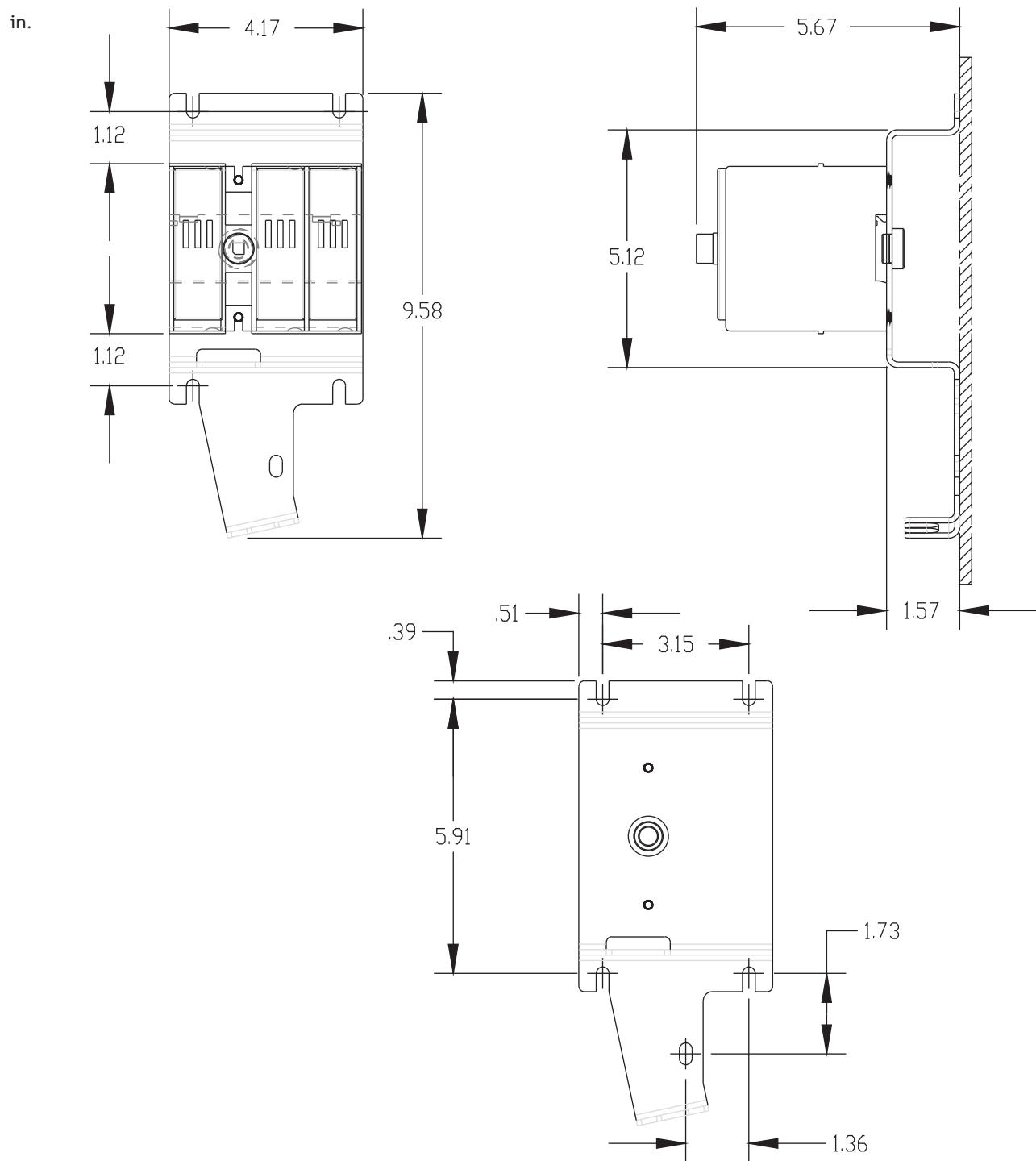


① MKCS: Operating mechanism

# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

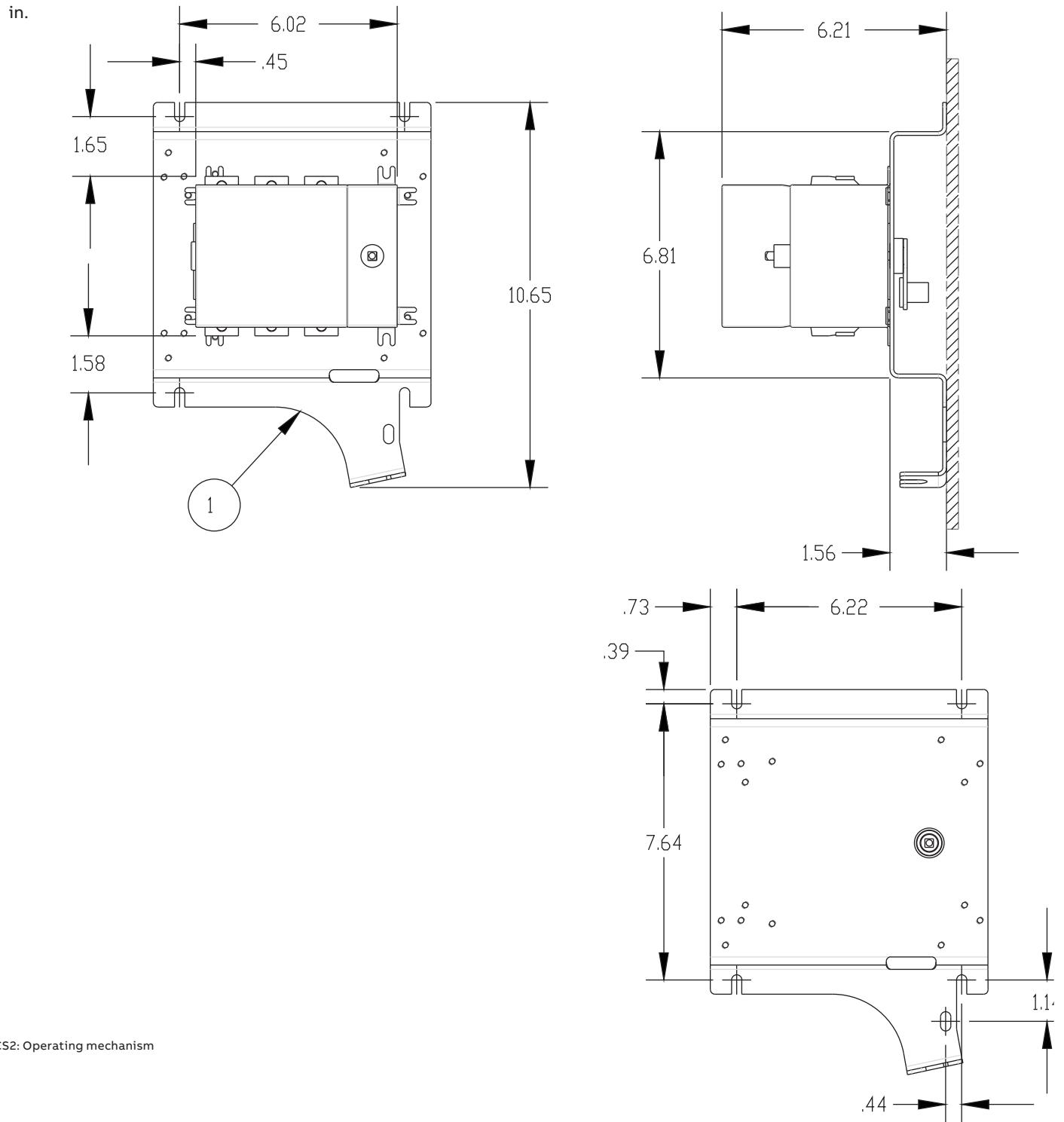
OS30FAJ12



# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS60GJ30

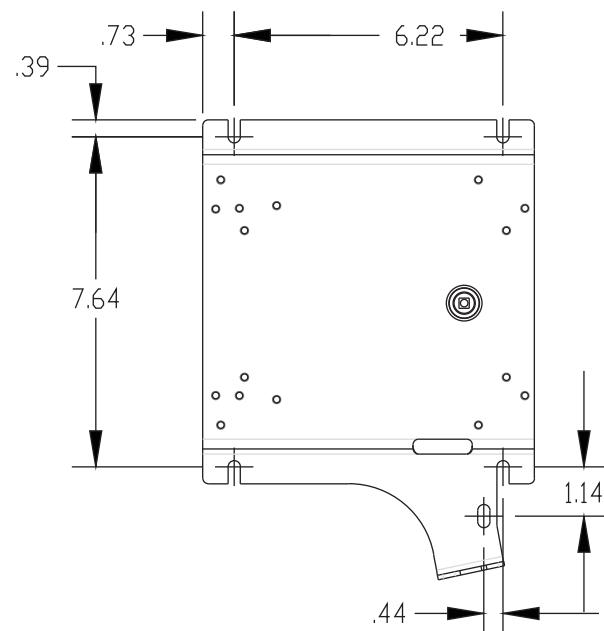
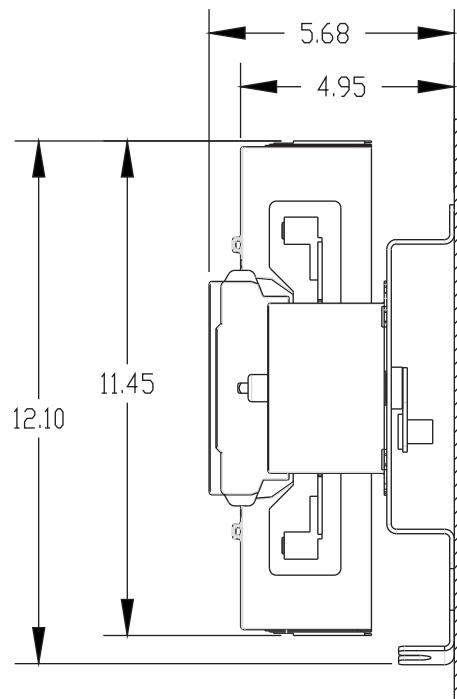
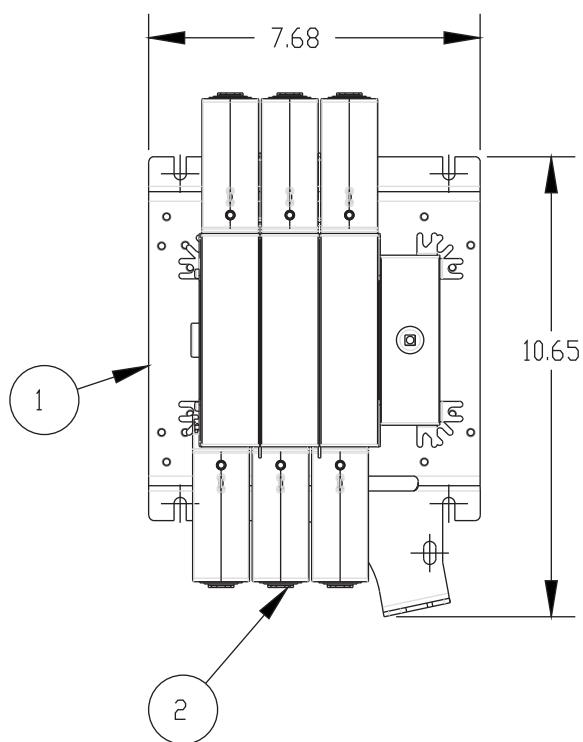


# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS100GJ30

in.

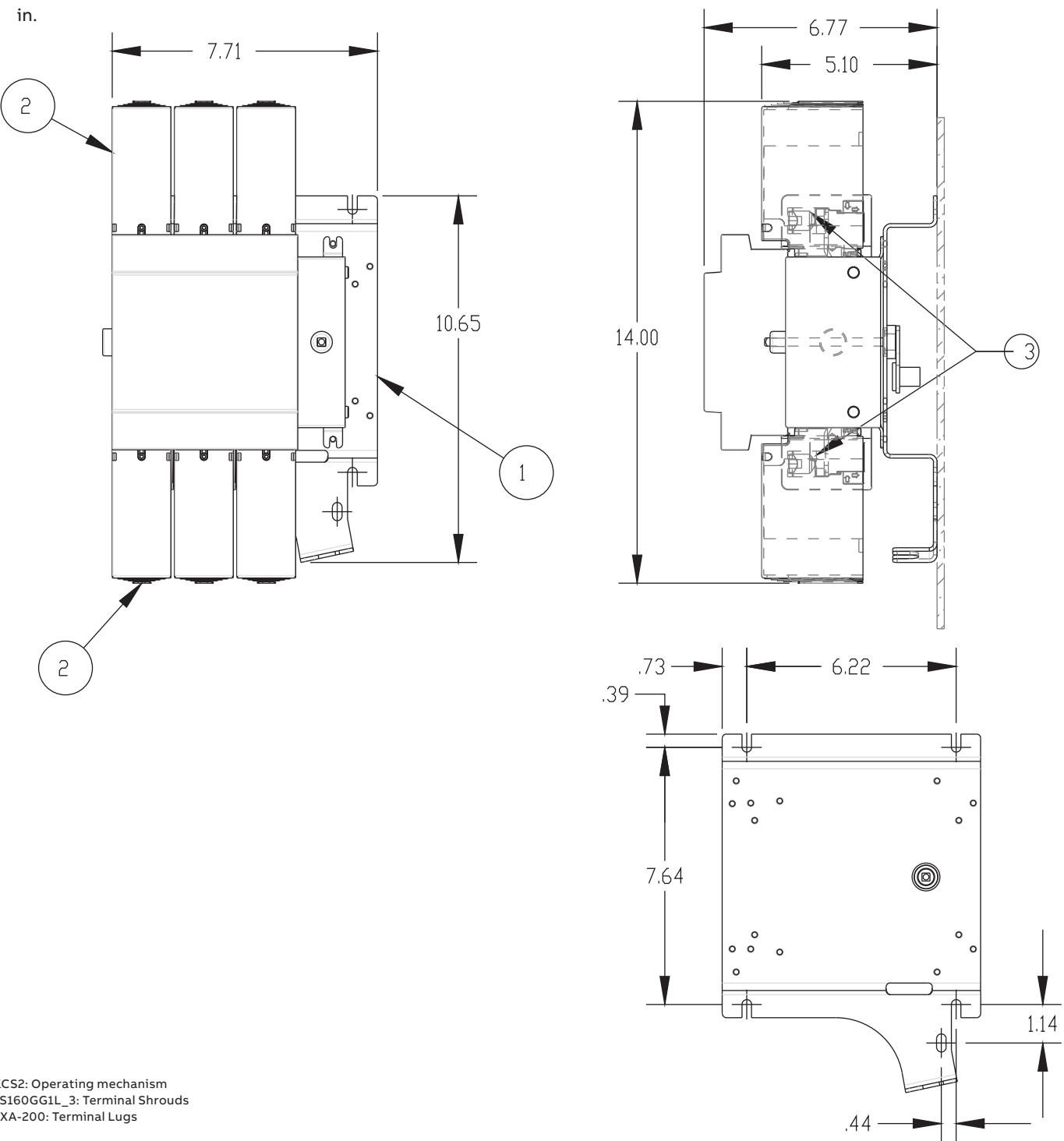


① MKCS2: Operating mechanism  
 ② OSS160GG1L\_3: Terminal Shrouds

# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS200J30

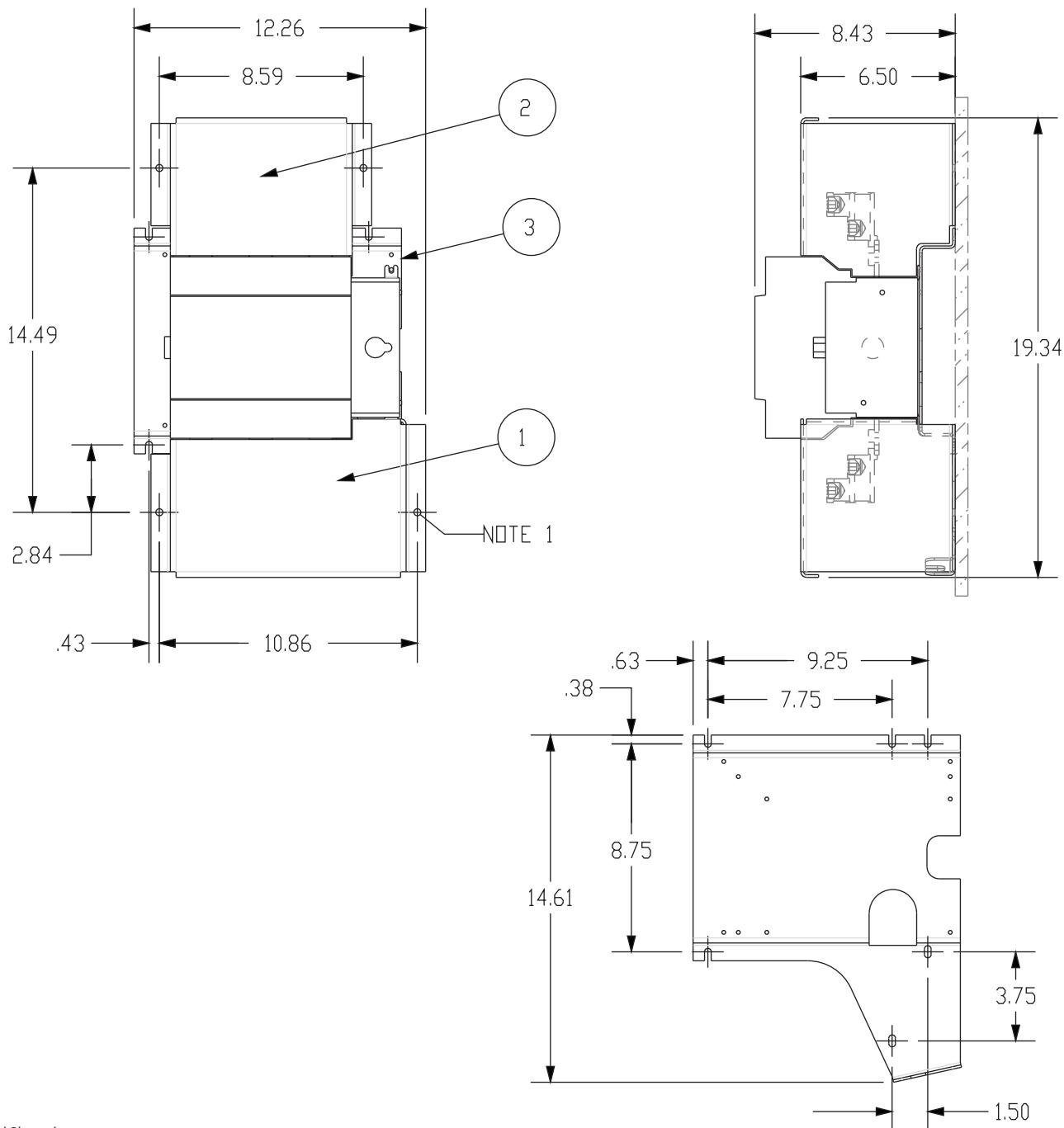


# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS400J30-FC

in.



①② Terminal Shrouds

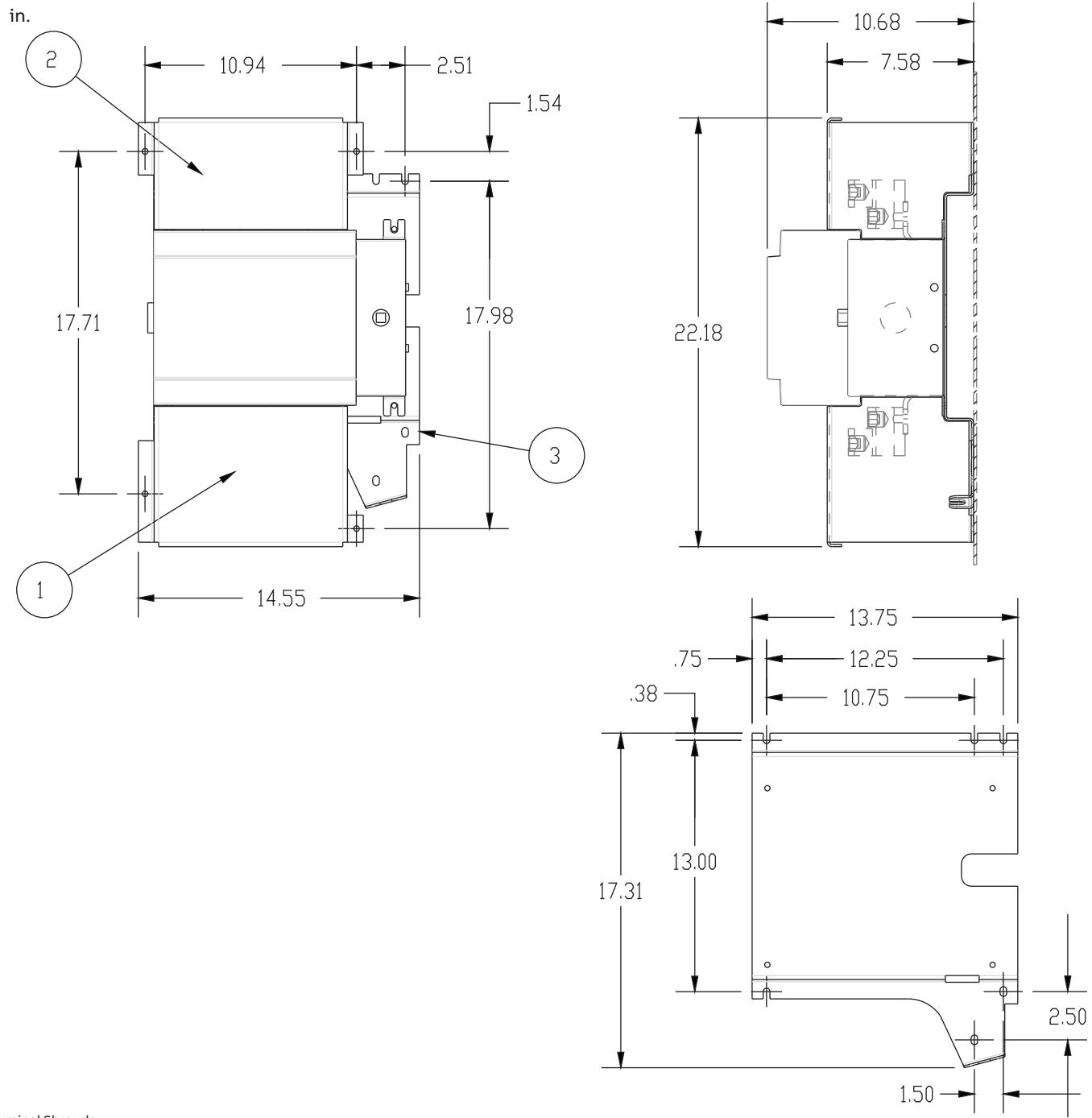
③ Flange switch base plate

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

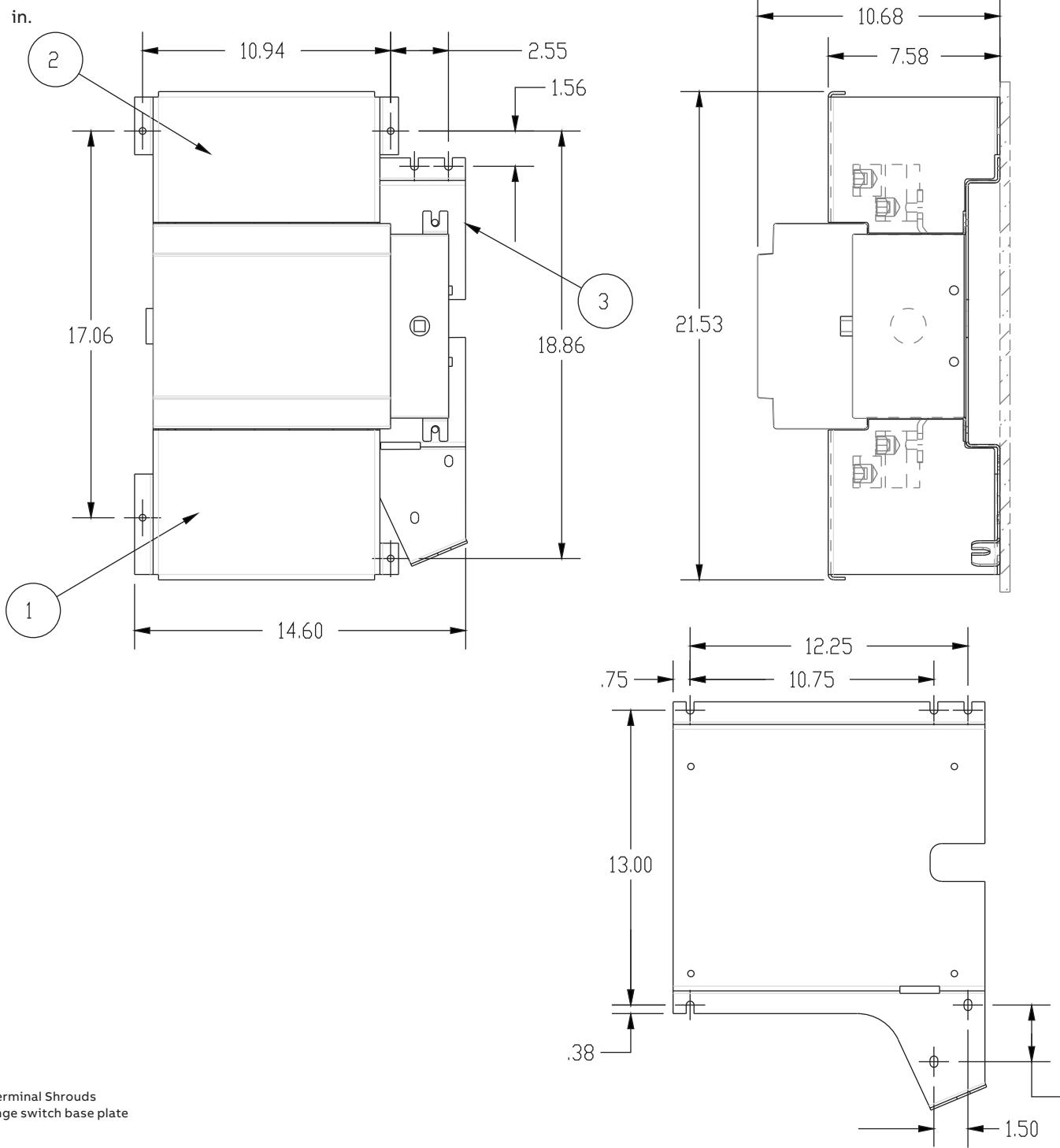


①②Terminal Shrouds  
③Flange switch base plate

# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS800L30-FC

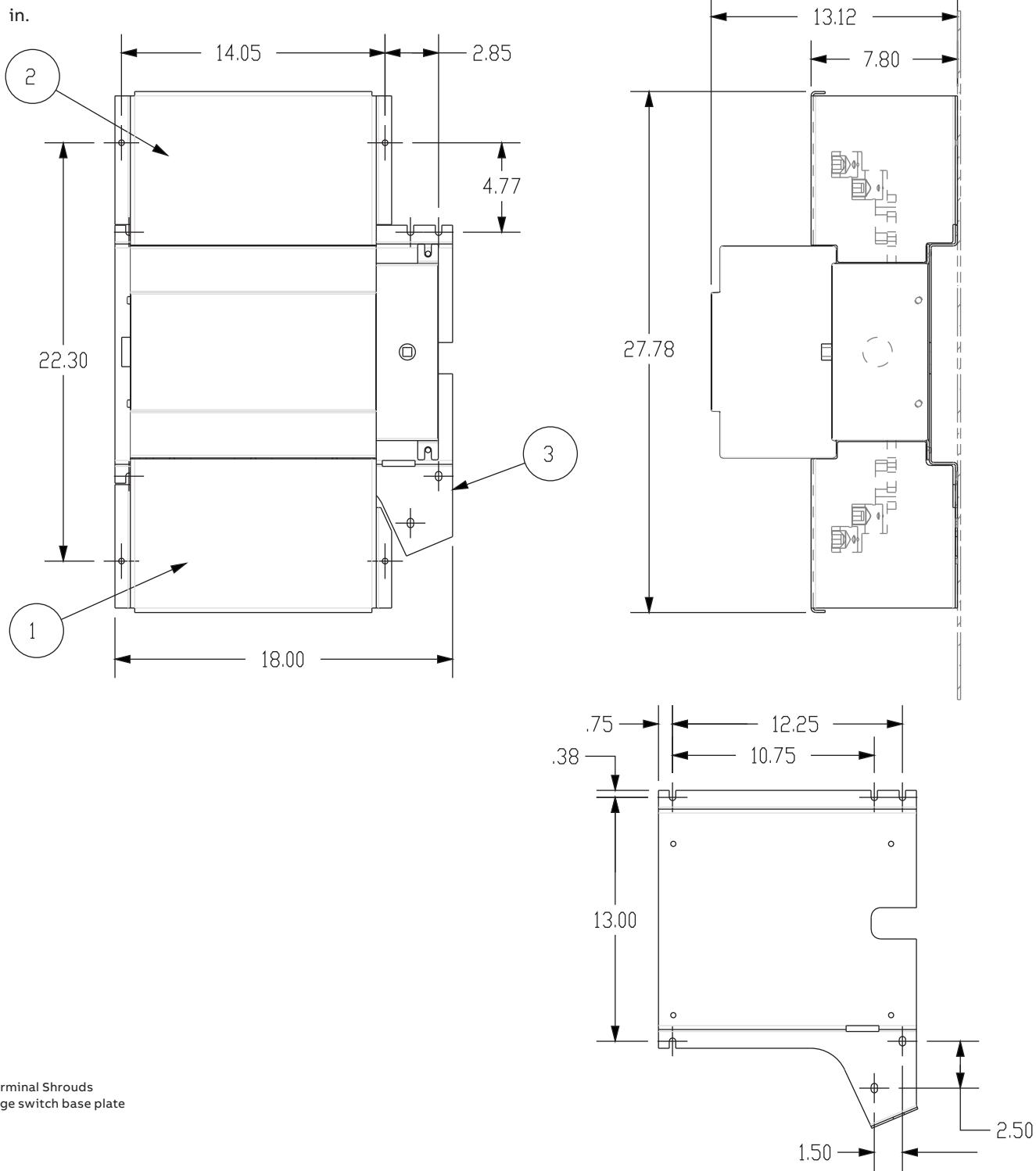


①②Terminal Shrouds  
③Flange switch base plate

# Flange operated disconnect switch cable operated fusible

## Dimensional drawings

OS1200L30-FC

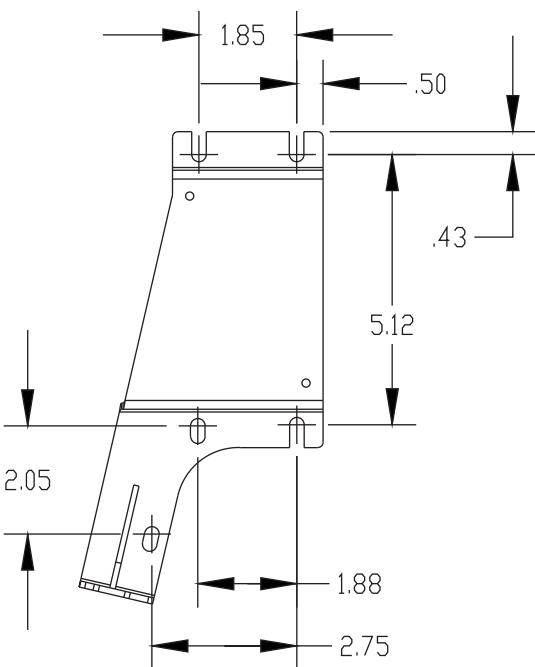
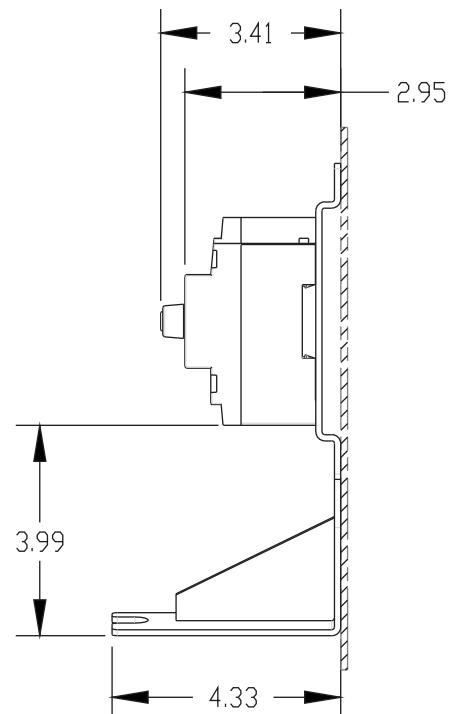
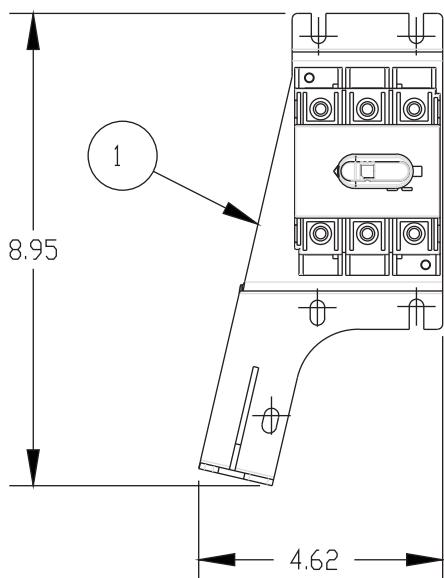


# Flange operated disconnect switch cable operated non-fusible

## Dimensional drawings

OT30F3

in.



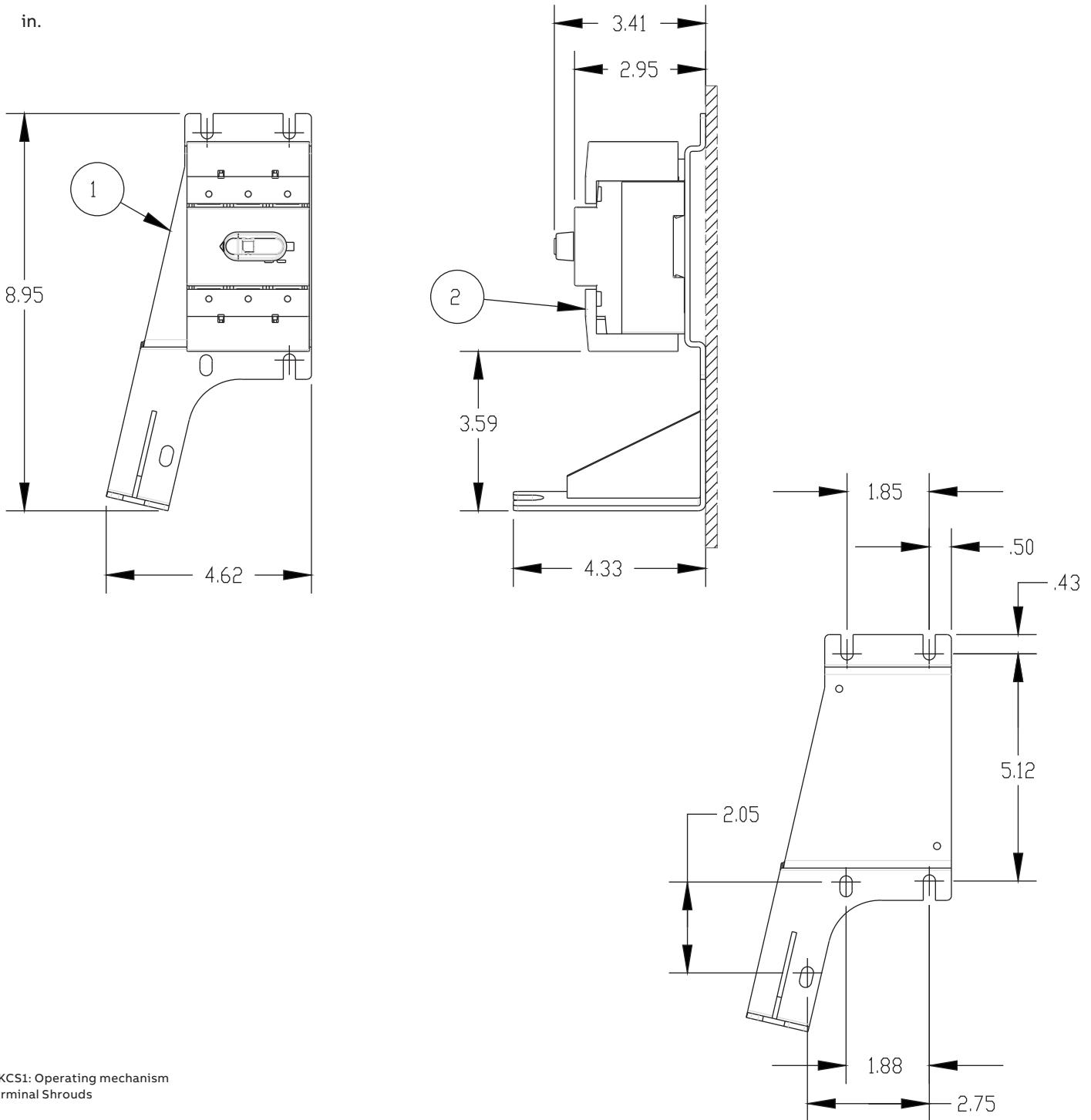
① MKCS1: Operating mechanism

# Flange operated disconnect switch cable operated non-fusible

## Dimensional drawings

OT60F3

in.

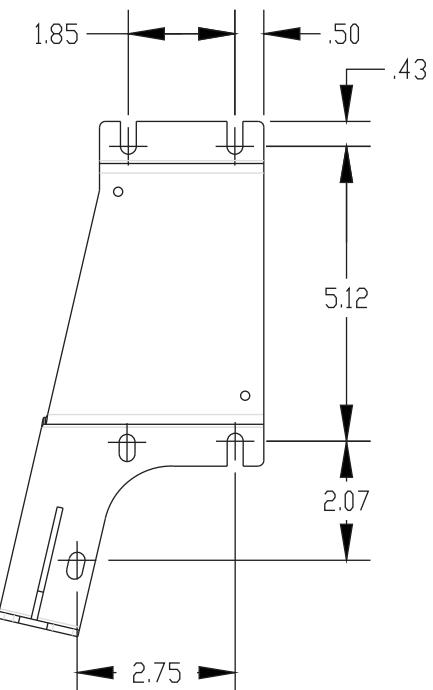
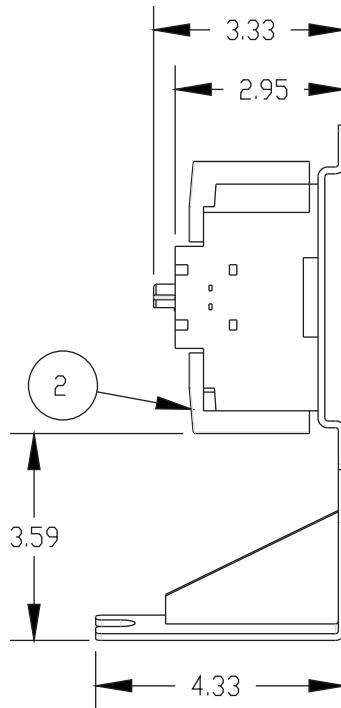
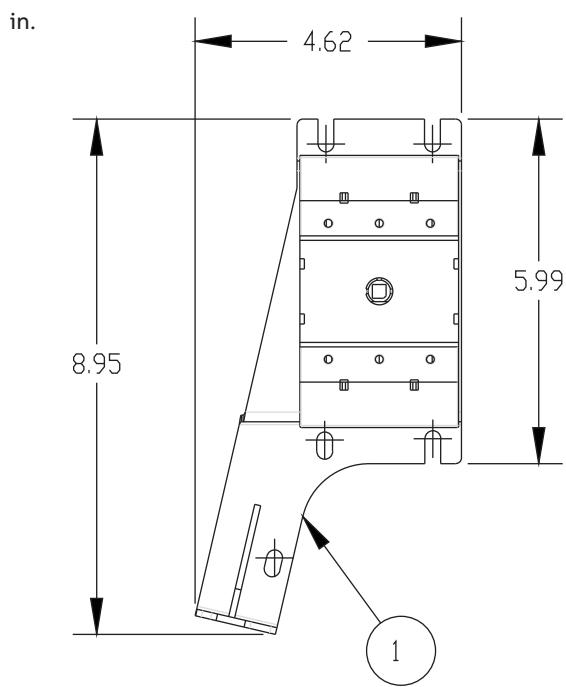


① MKCS1: Operating mechanism  
② Terminal Shrouds

# Flange operated disconnect switch cable operated non-fusible

## Dimensional drawings

OT100F3

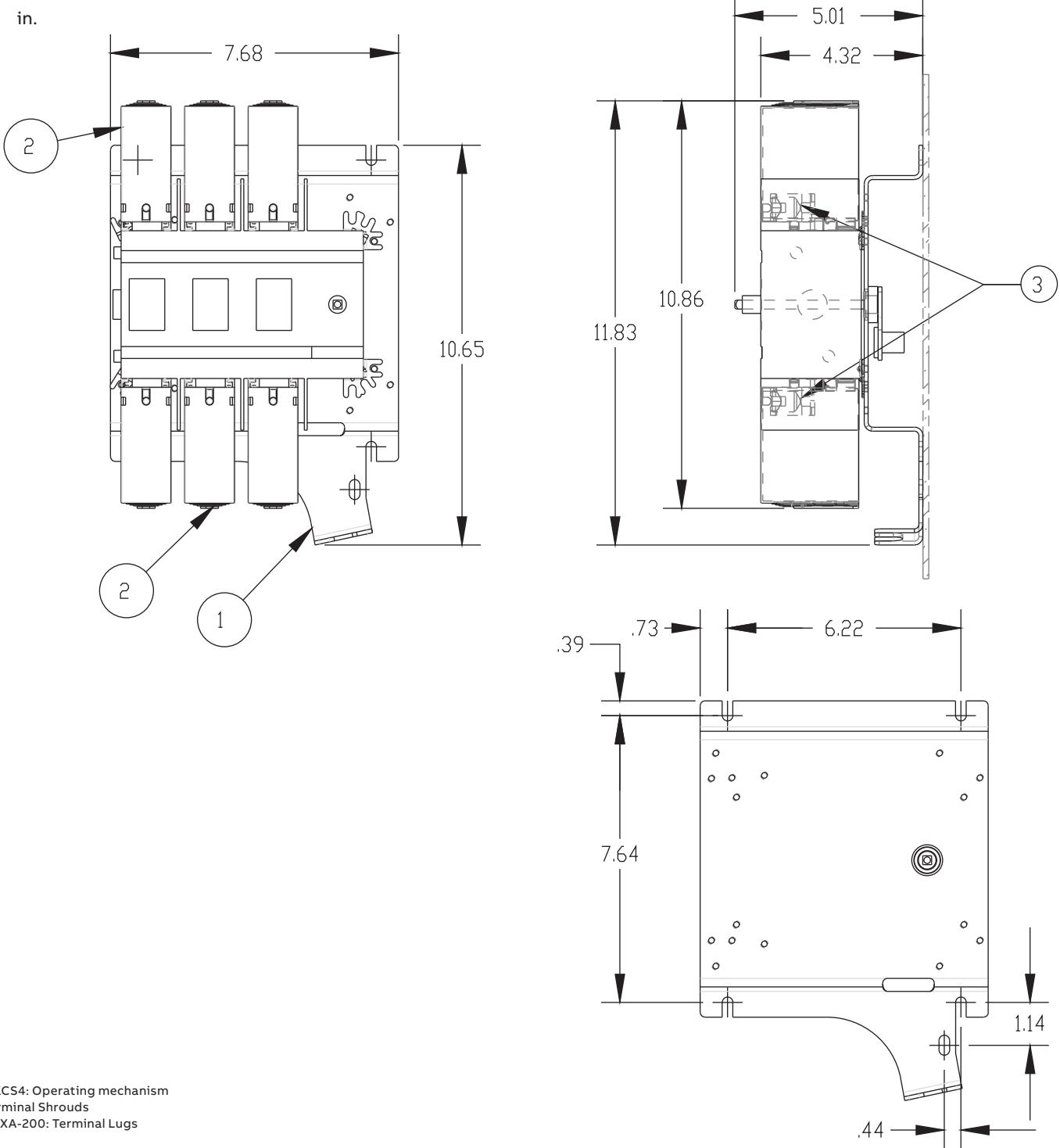


① MKCS1: Operating mechanism  
② Terminal Shrouds

# Flange operated disconnect switch cable operated non-fusible

## Dimensional drawings

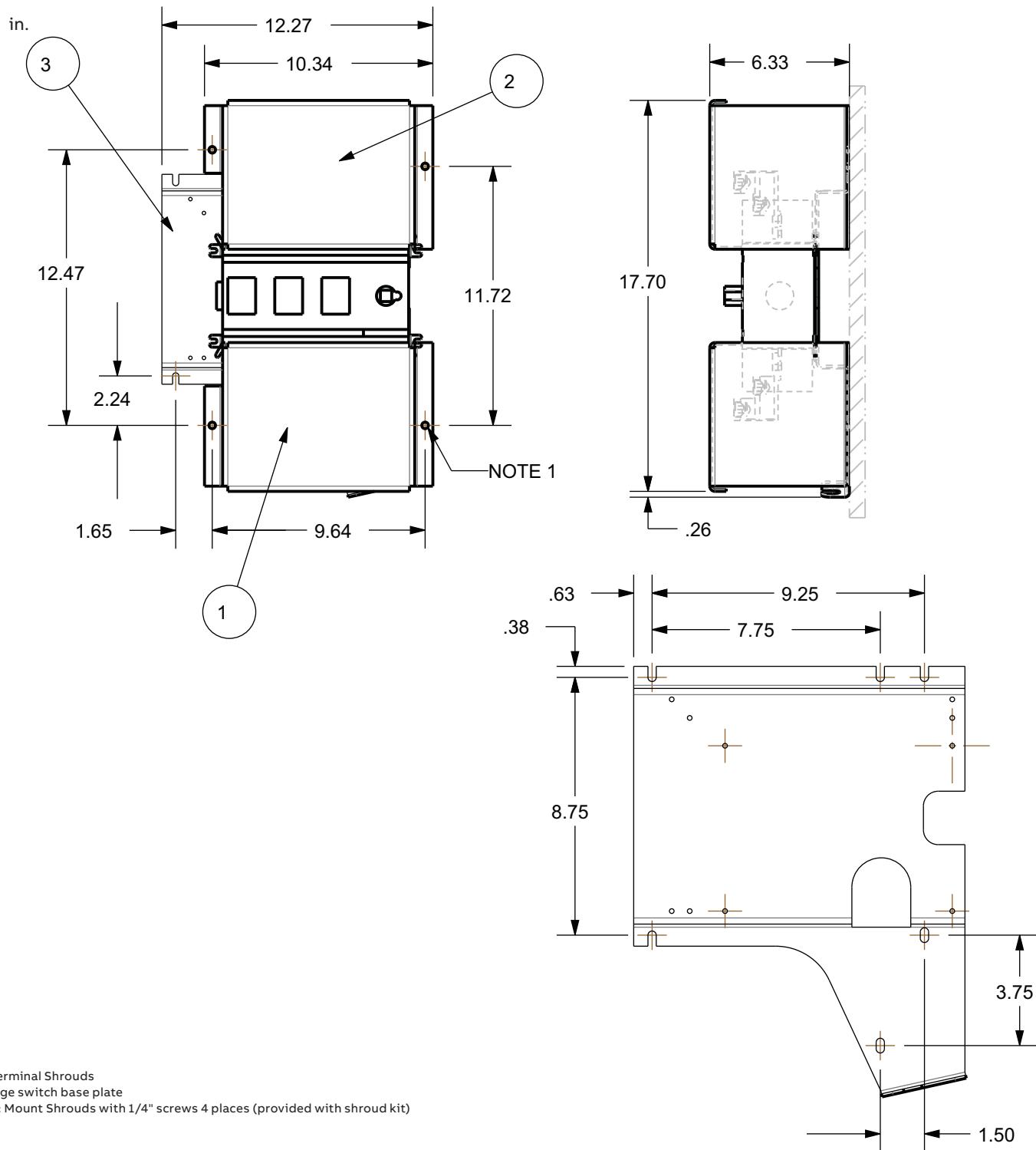
OT200U30



# Flange operated disconnect switch cable operated non-fusible

## Dimensional drawings

OT400U30-FC



①② Terminal Shrouds

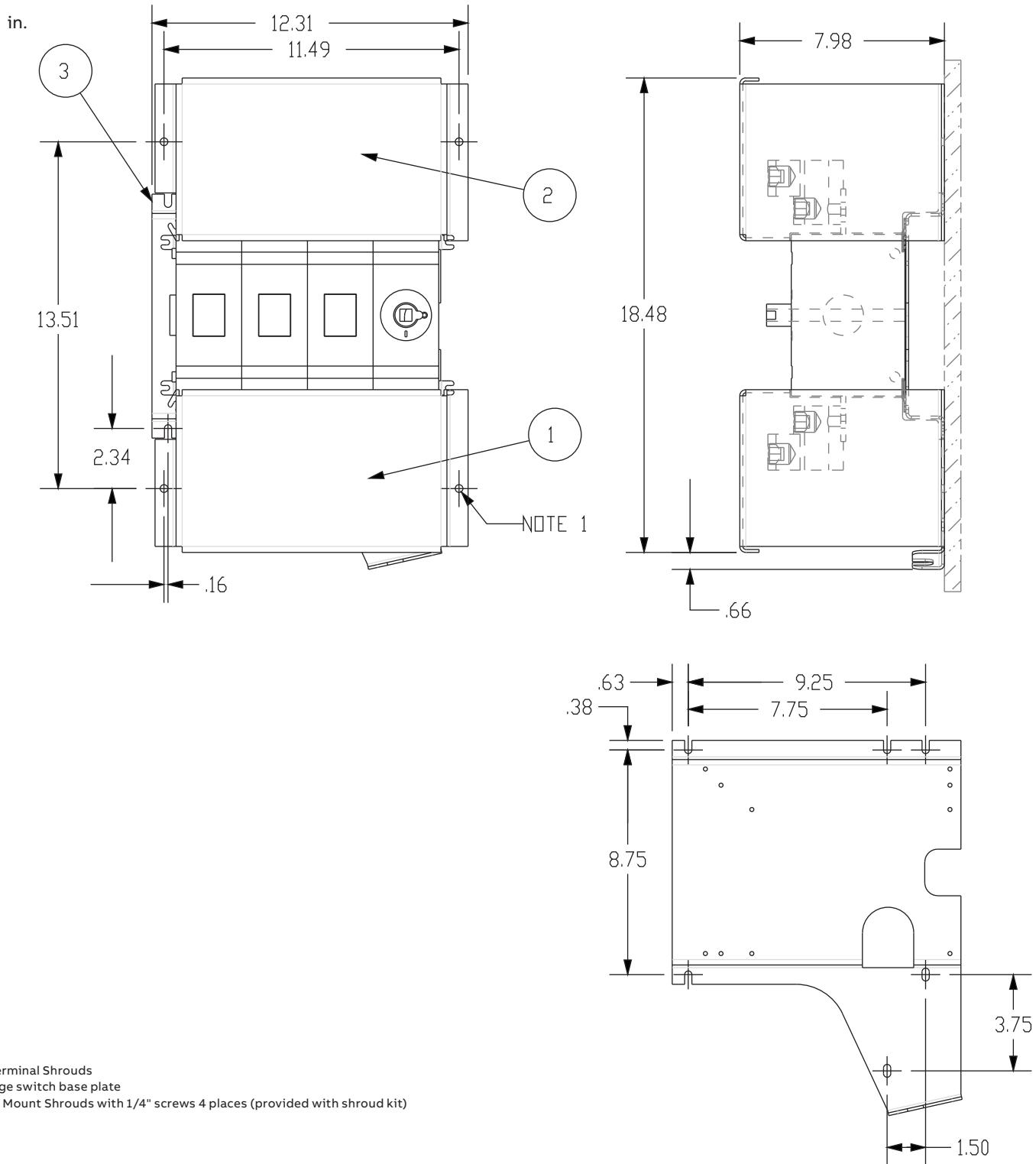
③ Flange switch base plate

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

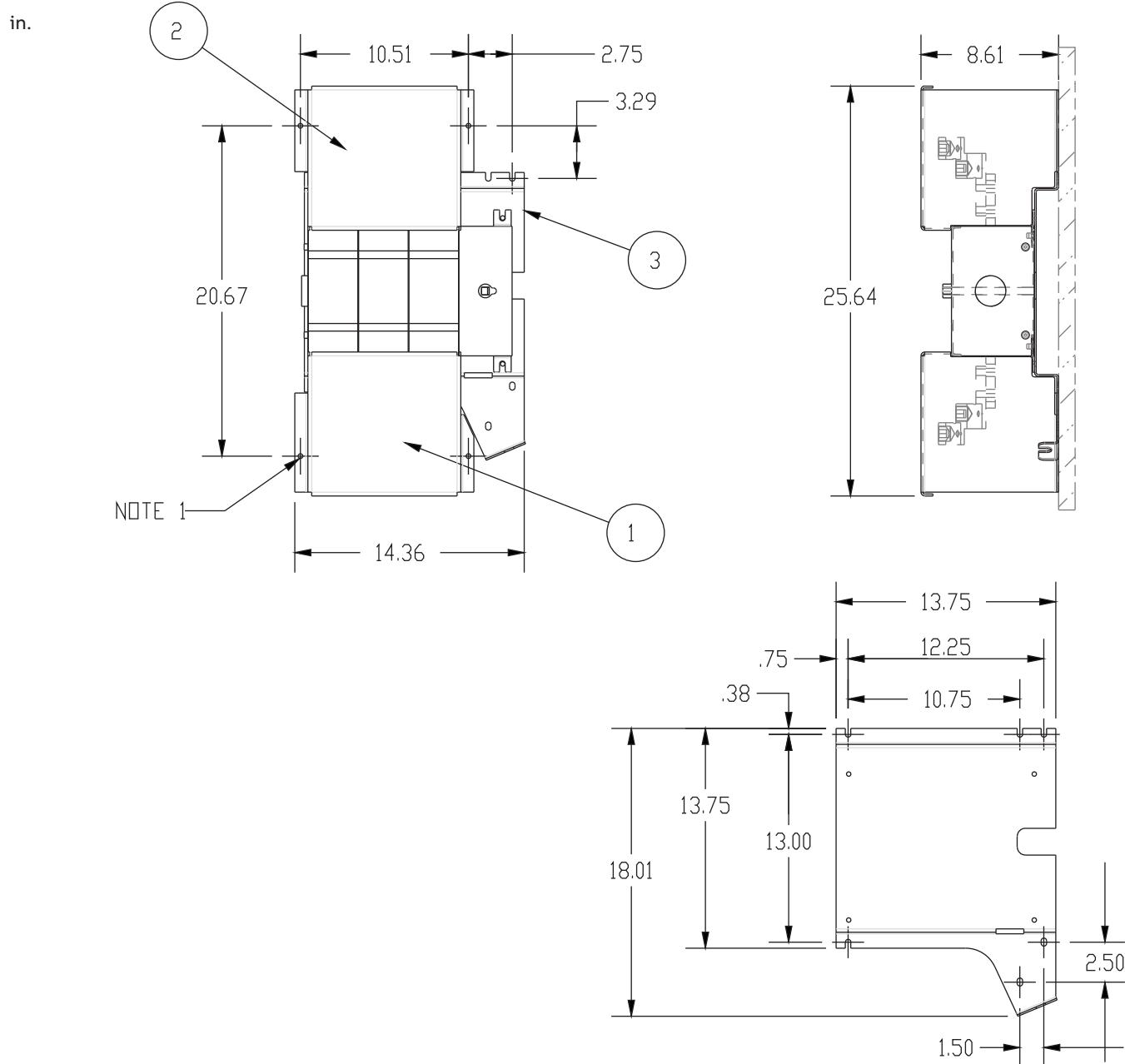
③ Flange switch base plate

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



①② Terminal Shrouds

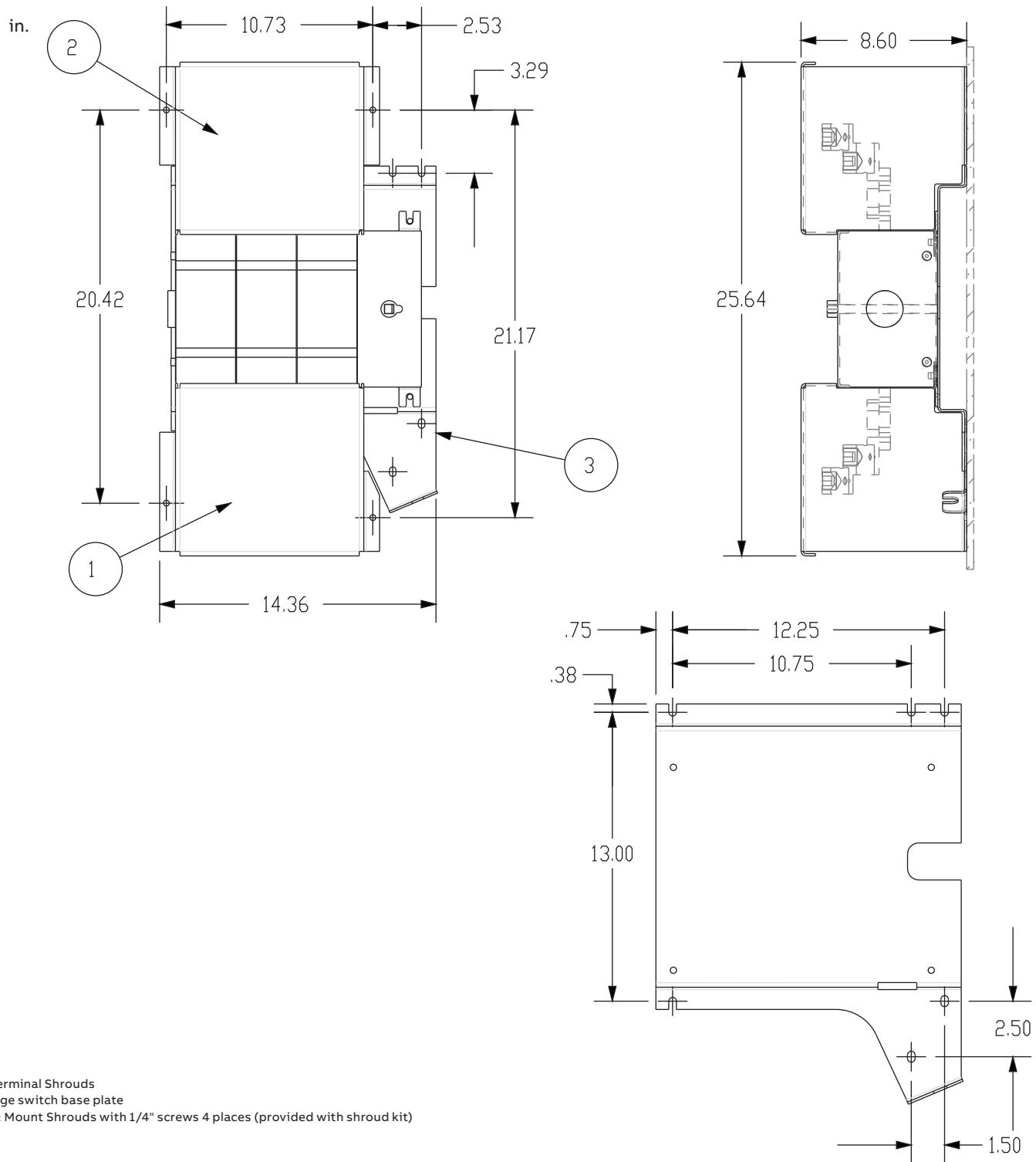
③ Flange switch base plate

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



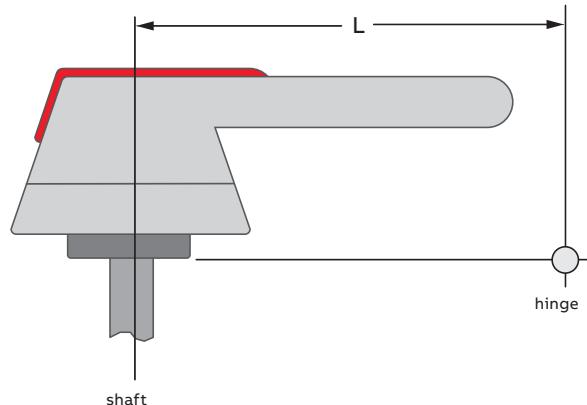
# Accessories for manual disconnect switches

## OT16...160

### Dimensional drawings for handles

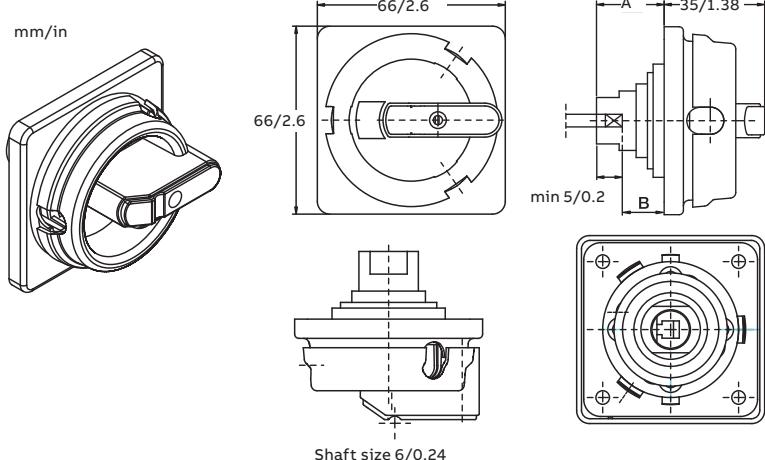
#### Minimum distance L between the hinge, handle and shaft

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



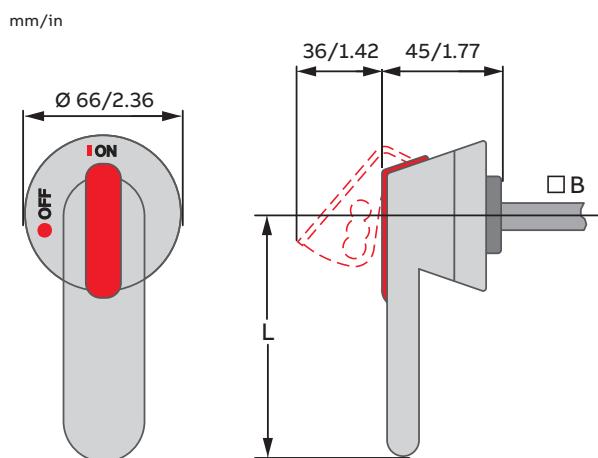
#### Round padlockable handle types OZ331P\_ and OZ371P\_

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

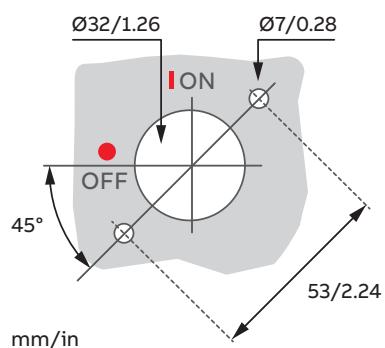


#### Pistol handle

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



#### Door drilling for OH\_handles:



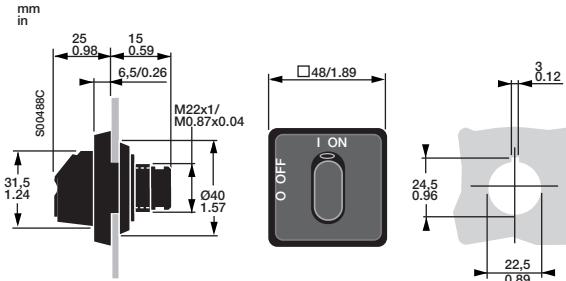
# Accessories for manual disconnect switches

## OT16...160

### Dimensional drawings for handles

#### Handles for base and DIN-rail mounted switches

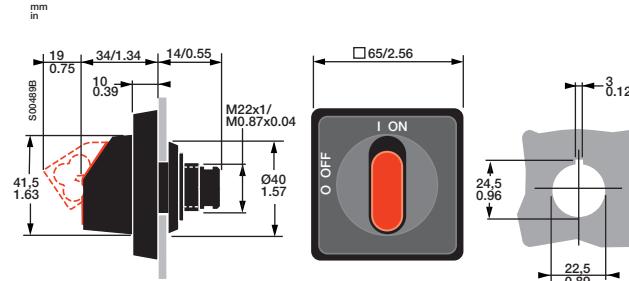
**OH\_S1A\_, OH\_S3A\_**



**OH**

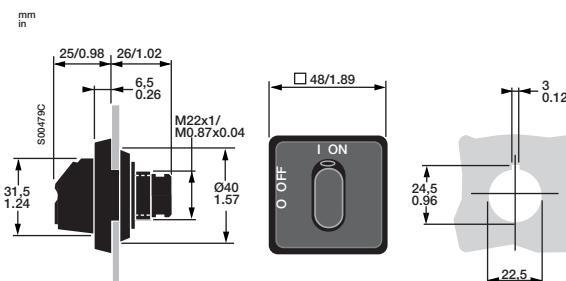
<b>Handle type</b>	<b>Length [mm/in]</b>
OH_S1A_	31.5/1.24
OH_S3A_	37.5/1.48

**OH\_S2A\_**



#### Handles for door mounted switches (snap-on mounting)

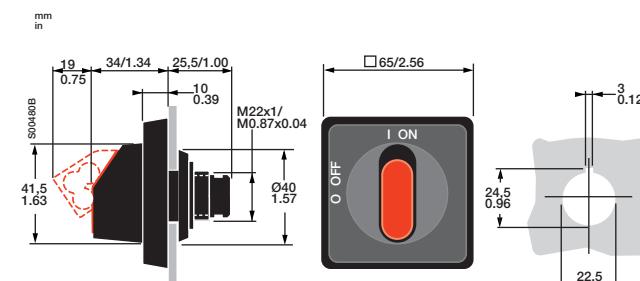
**OH\_S1P\_, OH\_S3P\_**



**OH**

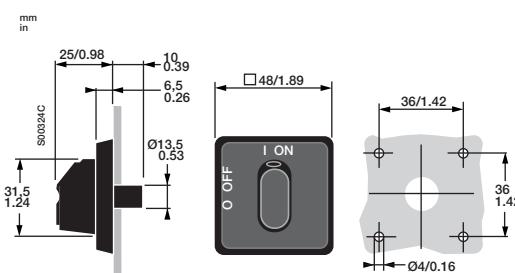
<b>Handle type</b>	<b>Length [mm/in]</b>
OH_S1P_	31.5/1.24
OH_S3P_	37.5/1.48

**OH\_S2P\_**



#### Handles for door mounted switches (screw-mounting)

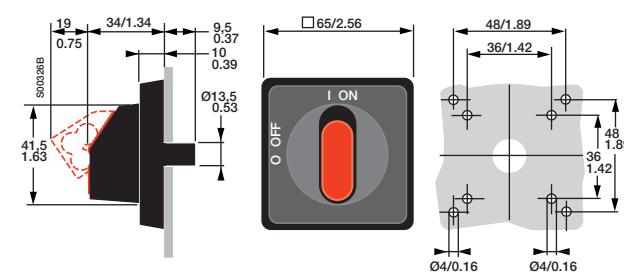
**OH\_S1R\_, OH\_S3R\_**



**OH**

<b>Handle type</b>	<b>Length [mm/in]</b>
OH_S1P_	31.5/1.24
OH_S3P_	37.5/1.48

**OH\_S2R\_**



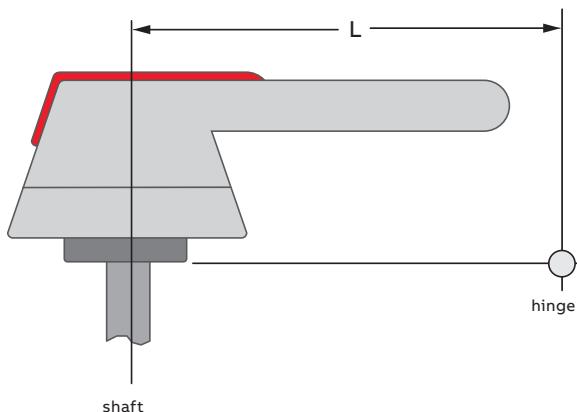
# Accessories for manual disconnect switches

## OT200...2000

### Dimensional drawings for handles

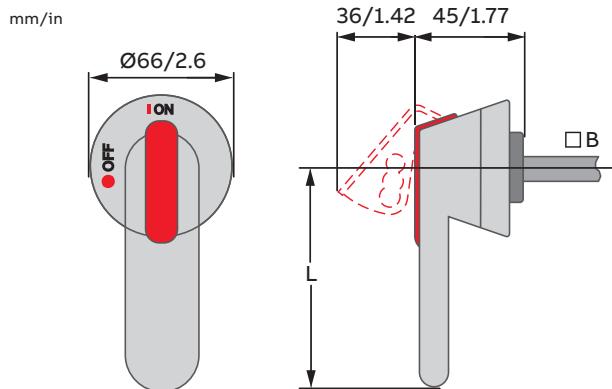
#### Minimum distance L between the hinge and the rotating shaft

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_



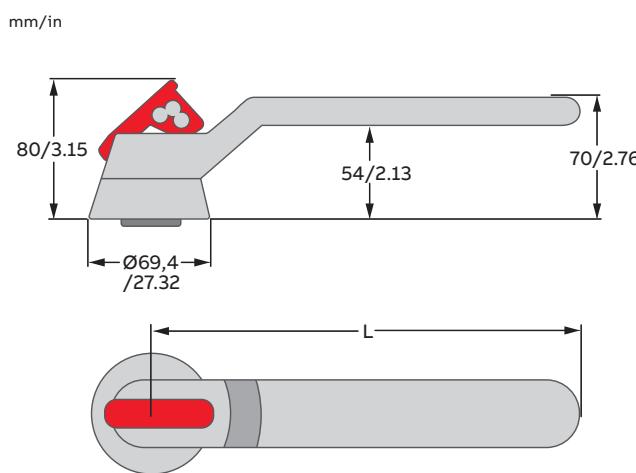
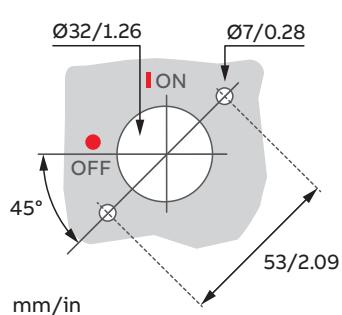
#### Plastic handles, type OH

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



#### Door drilling for OH\_handles:

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



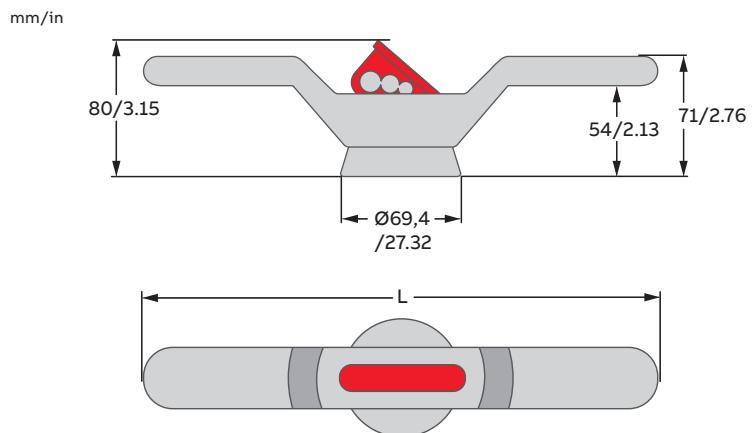
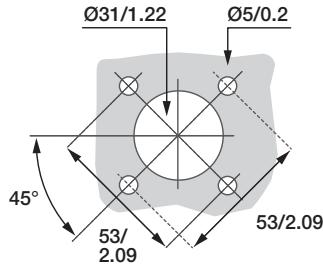
# Accessories for manual disconnect switches OT200...2000

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

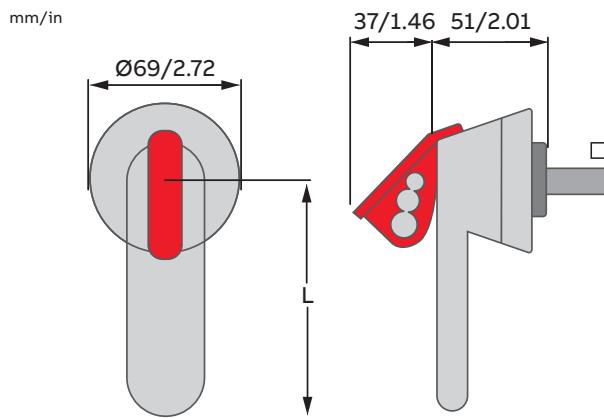
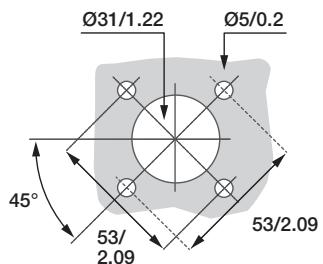
## Door drilling for OHB\_handles:



## 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:



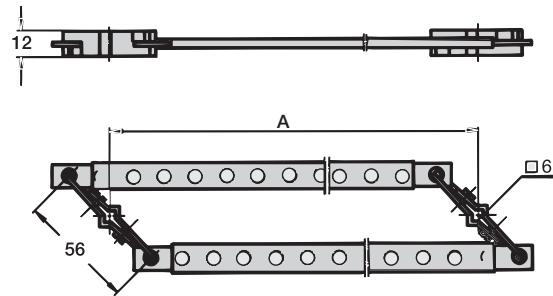
# Accessories for manual disconnect switches

## OT16...160

Dimensional drawings for conversion kits

### 6 and 8-pole switches

**OTZW8**

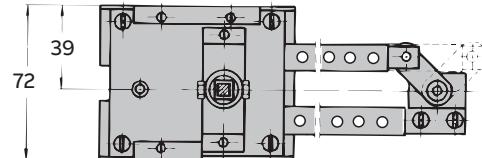
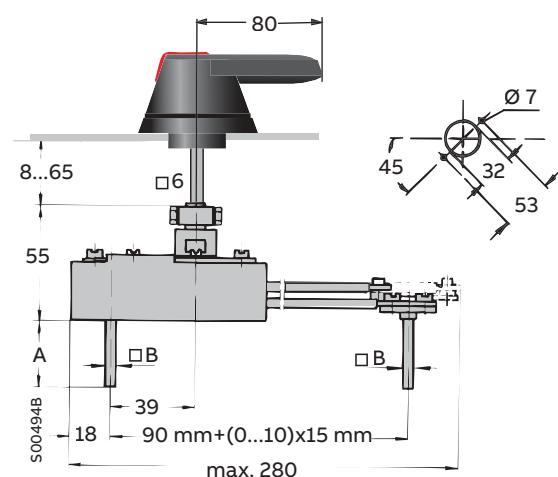


**OTZW8**

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

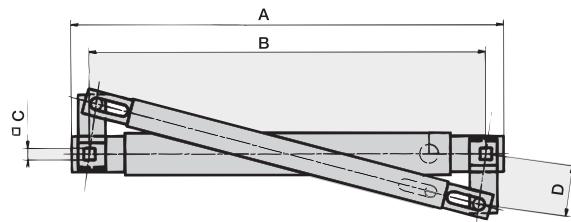
### Change-over switches

**OESAZW1**



### Mechanical interlock

**OTZW10**



**OTZW10**

	OTZW10
A	206
B	190
C	6
D	30

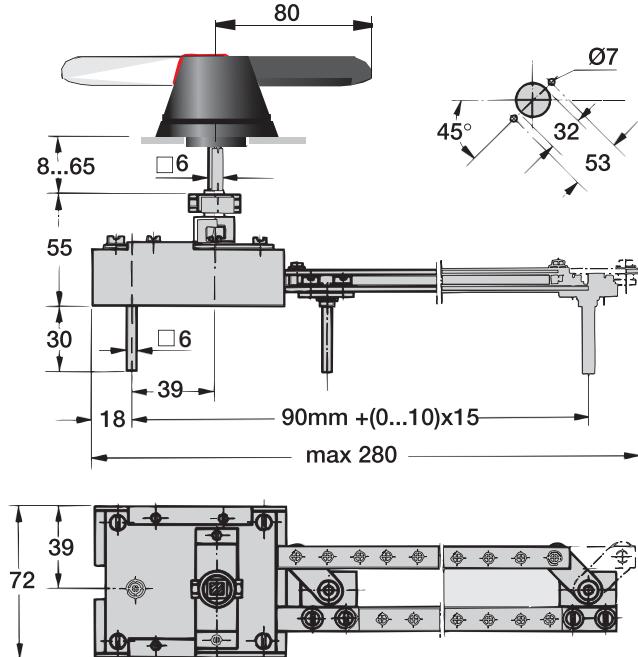
# Accessories for manual disconnect switches

## OT16...160

Dimensional drawings for conversion kits

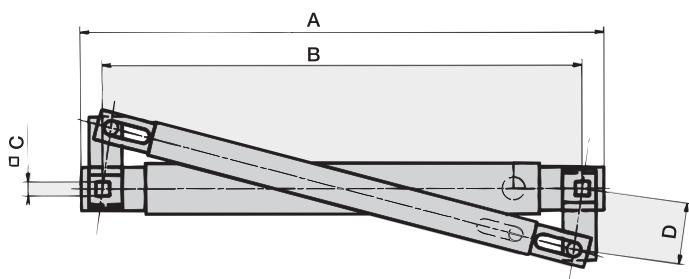
### By-pass switches

**OTZW17**



### Mechanical interlock

**OTZW10, OTZW24**



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

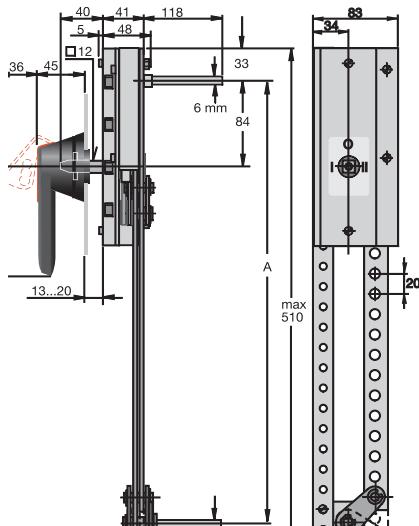
# Accessories for manual disconnect switches

## OT200...2000

### Dimensional drawings for conversion kits

#### Change-over and by-pass switches

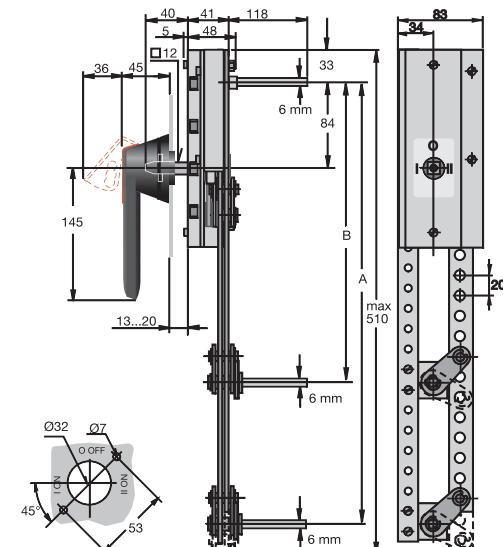
**OTZW25**



**OTZW25**

A  $210+(0\dots18)\times20\text{mm}$

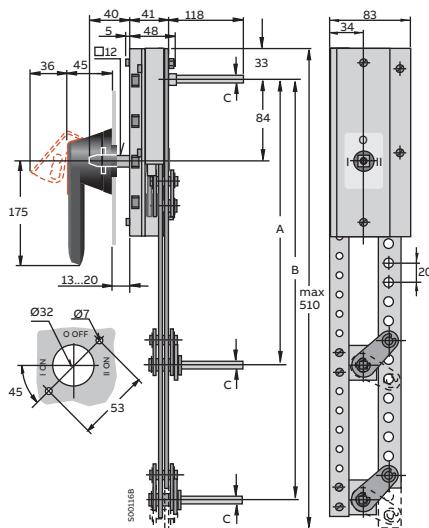
**OTZW26**



**OTZW26**

A  $210+(0\dots18)\times20\text{mm}$   
B  $210+(0\dots18)\times20\text{mm}$

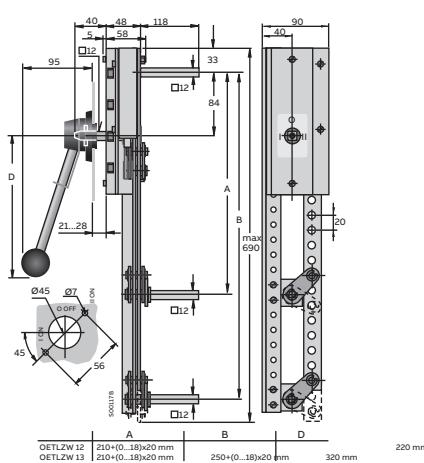
**OETLZW11**



**OETLZW11**

A  $210+(0\dots11)\times20\text{mm}$

**OETLZW12, OETLZW13**



**OETLZW12, OETLZW13**

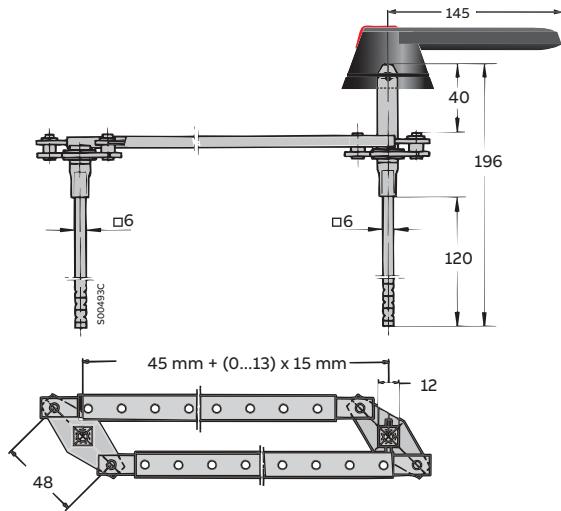
	<b>OETLZW12</b>	<b>OETLZW13</b>
A	$210+(0\dots18)\times20\text{mm}$	$210+(0\dots18)\times20\text{mm}$
B	$210+(0\dots18)\times20\text{mm}$	$250+(0\dots18)\times20\text{mm}$
C	220 mm	320 mm

# Accessories for manual disconnect switches OT200...2000

Dimensional drawings for conversion kits

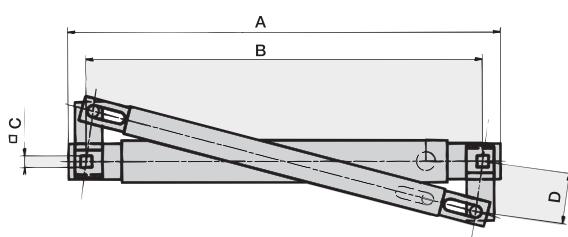
## 6 and 8-pole switches

OESAZW2



## Mechanical interlock

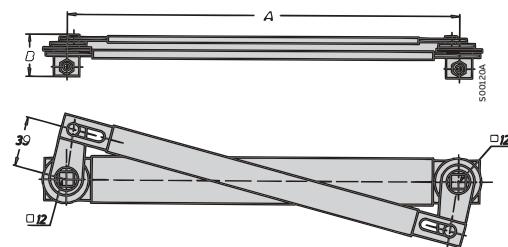
OTZW10



**OTZW10**

	<b>OTZW10</b>
A	206
B	190
C	6
D	30

**OETLZW3, OETLZW14, OETLZW15**



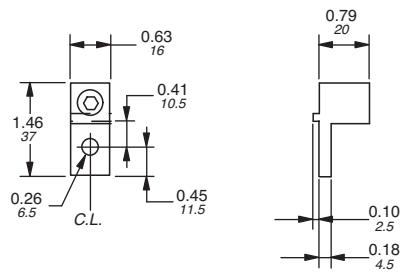
**OETLZW3, OETLZW14, OETLZW15**

	<b>OETLZW3</b>	<b>OETLZW14</b>	<b>OETLZW15</b>
A	300	250	500
B	31	31	36

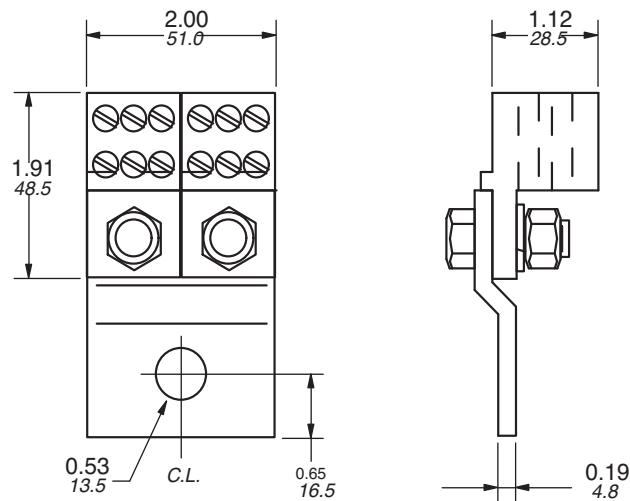
# Approximate dimensions

## For Terminal lugs

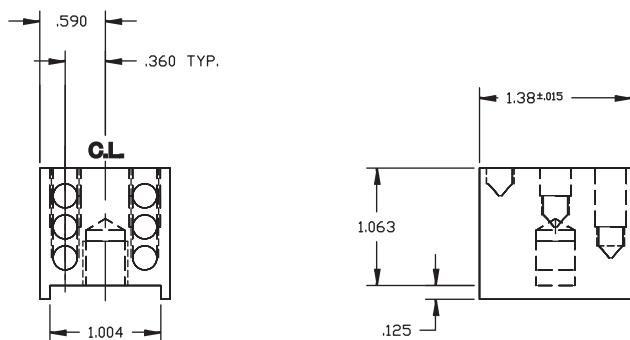
OZXA-24 — for use with OS100GJ\_ switches



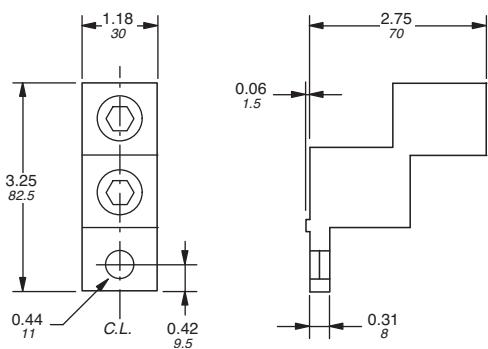
OZXA-175 — for use with OT200U\_, OS200J\_switches



OZXA-406 — for use with OT400U\_ switches



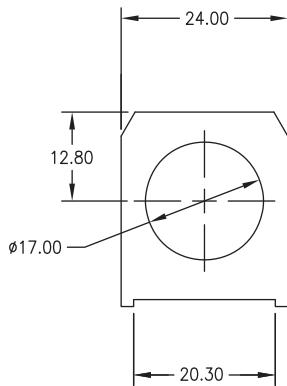
OZXA-33 — for use with OT400U\_, OS400J\_switches



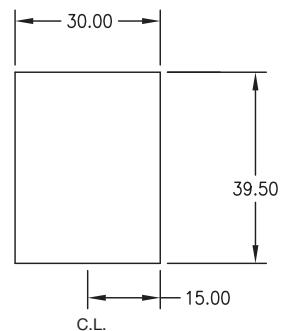
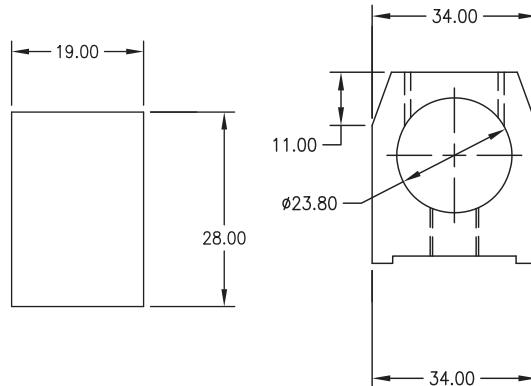
# Approximate dimensions

## Terminal lugs

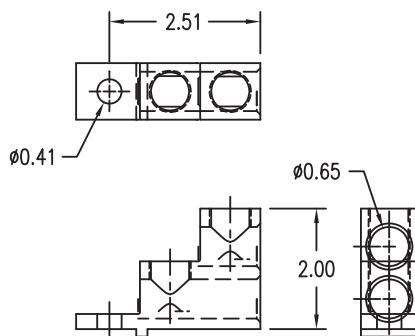
OZXA-200 — for use with OT200U\_, OS200J\_switches



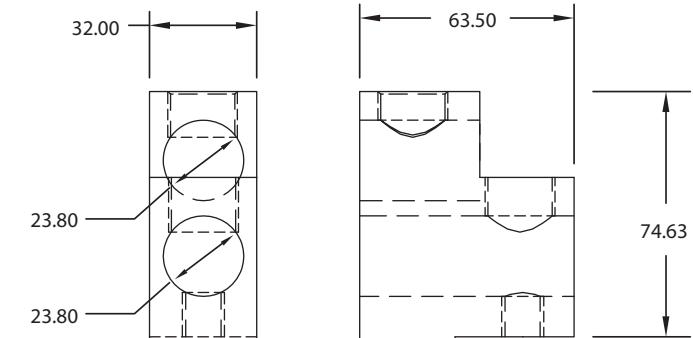
OZXA-400 — for use with OT400U\_, OS400J\_switches



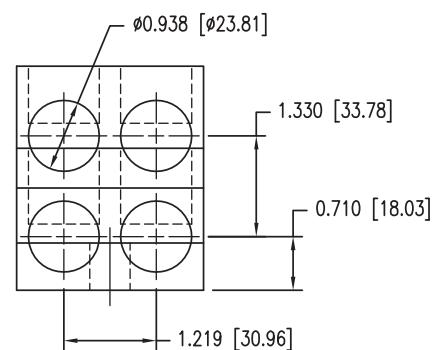
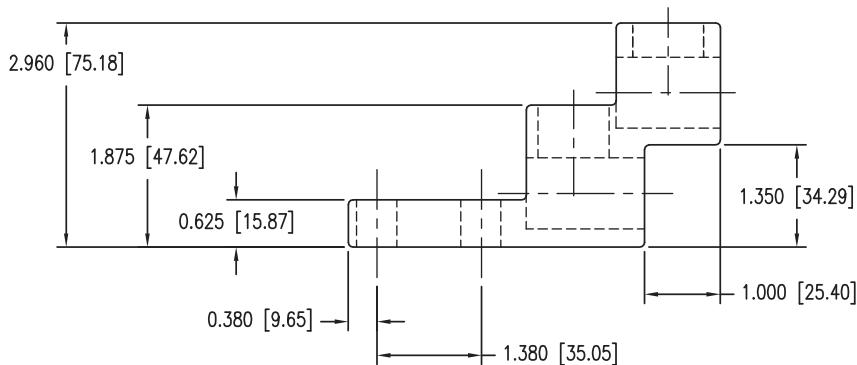
OZXA-402 — for use with OT400U\_, OS400J\_switches



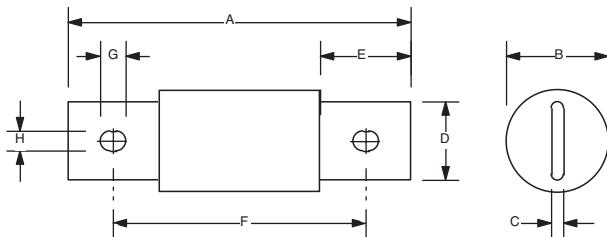
OZXA-800 — for use with OT600U\_, OS600J\_, OS800L\_switches



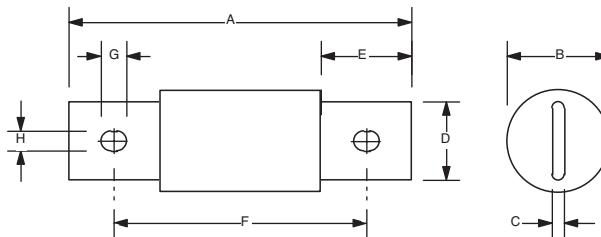
OZXA-1200 — for use with OT800U\_, OT1200U\_, OT1600U\_, OT2000U\_, OS1200L\_switches



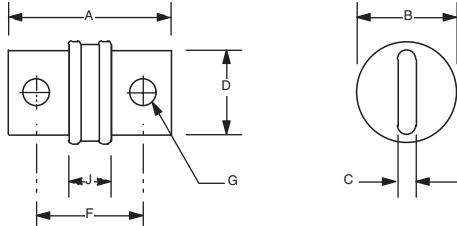
# Approximate dimensions For Fuses

**Class J (600V)**

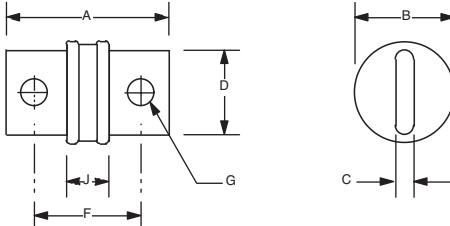
Ampere rating	A	B	C	D	E	F	G	H
1 - 30	2.25	.81	—	—	—	—	—	—
31 - 60	2.38	1.06	—	—	—	—	—	—
61 - 100	4.62	1.12	.12	.75	1	3.62	.38	.28
101 - 200	5.75	1.62	.19	1.12	1.38	4.38	.38	.28
201 - 400	7.12	2.12	.25	1.62	1.88	5.25	.53	.41
401 - 600	8.00	2.5	.38	2.00	2.12	6.00	.69	.53

**Class L (600V)**

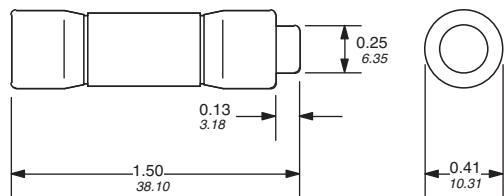
Ampere rating	A	B	C	D	E	F	G	H
200 - 600	8.62	2.00	.31	1.62	2.41	6.25	1.12	.62
601 - 800	8.62	2.50	.38	2.00	2.41	6.25	1.12	.62

**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)**

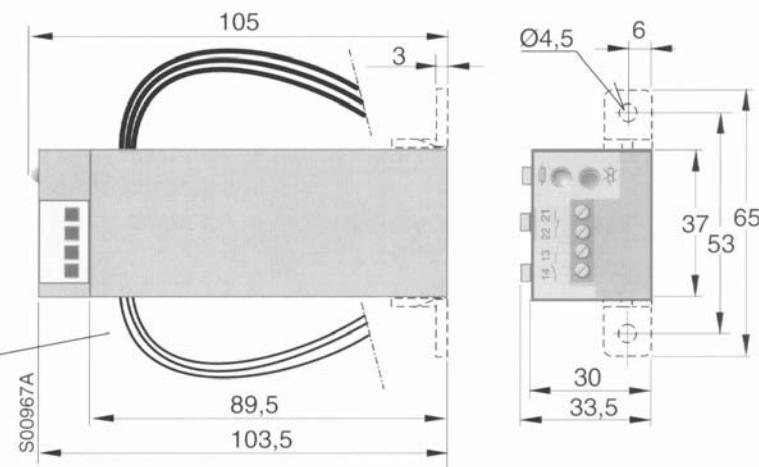
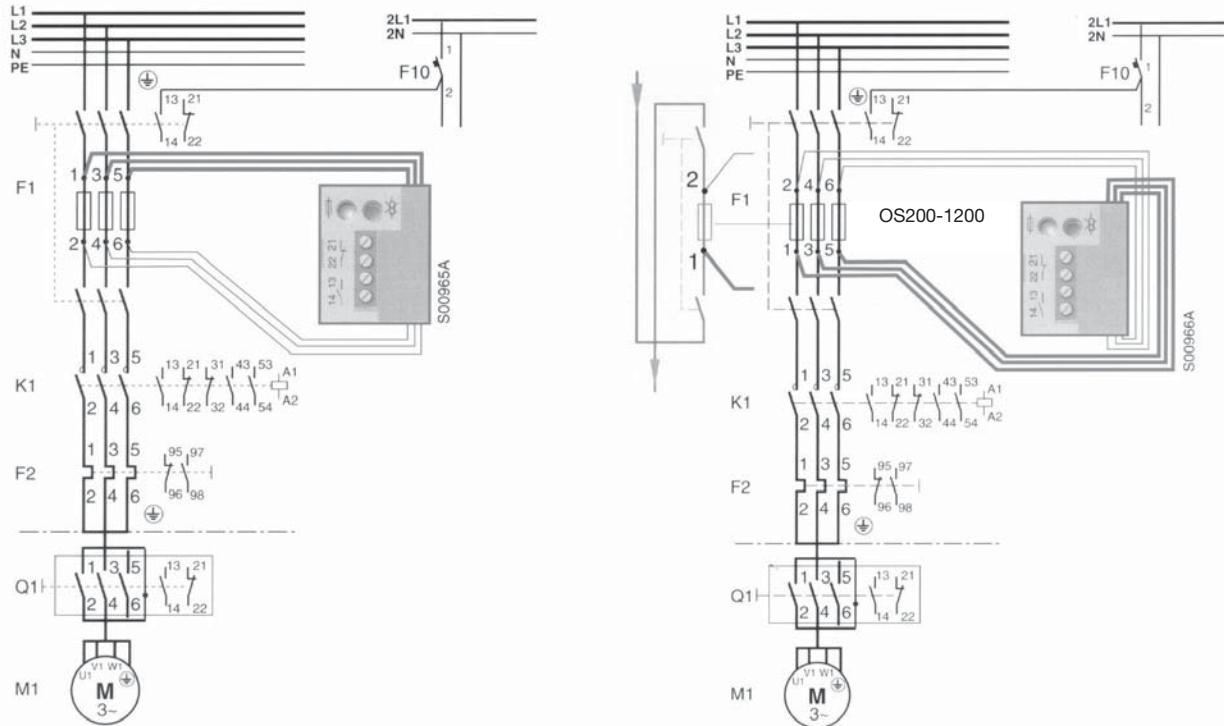
Ampere rating	A	B	C	D	F	G	J
1 - 30	1.50	.56	—	—	—	—	—
35 - 60	1.56	.81	—	—	—	—	—
70 - 100	2.95	—	.12	.75	2.36	.28	1.64
110 - 200	3.25	—	.19	.88	2.50	.34	1.66
225 - 400	3.62	—	.25	1.00	2.69	.41	1.64
450 - 600	3.98	—	.31	1.25	2.95	.48	1.78
601 - 800	4.37	—	.38	1.75	3.17	.55	1.88

**Class CC (600V) - Rejection type**

# Fuse monitor

## Contact functions

### Dimension drawings







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