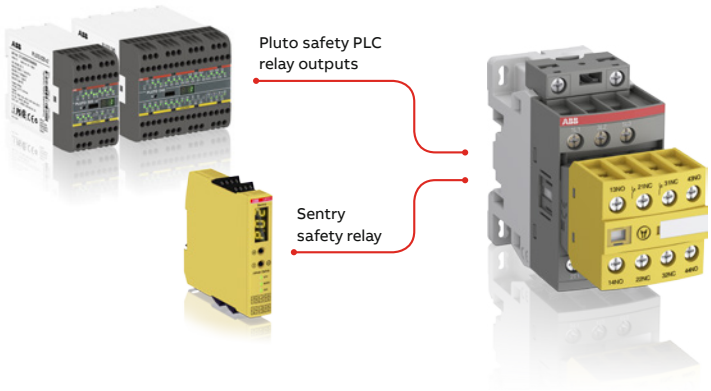
JOKAB SAFETY

AFS contactors with front-mounted auxiliary contact blocks

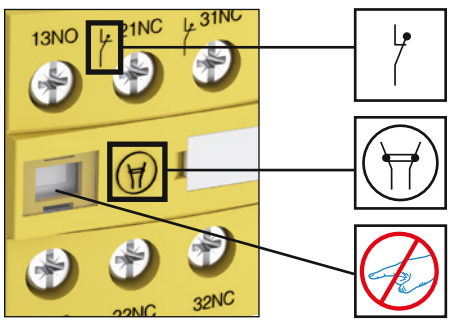
Dedicated for safety applications

Control by safety PLCs or safety relays
ABB's AFS contactors can be controlled directly by relay outputs of safety PLCs and safety relays. The low energy auxiliary contacts feature a minimum switching capacity 12 V, 3 mA. They guarantee system status feedback, making the system safe and reliable.

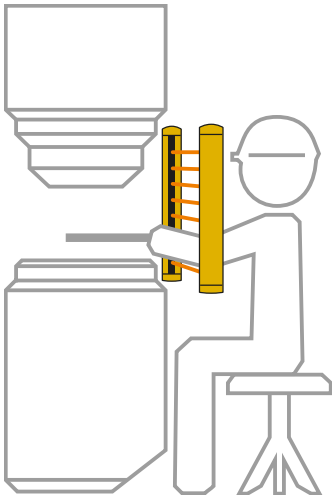


Contactors status guaranteed
ABB's permanently fixed front-mounted auxiliary contact blocks guarantee the correct contactor status at all times. Mechanically linked and mirror contacts get clearly marked symbols on the front and provide the performance required in feedback circuits. This prevents any unexpected state changes of auxiliary contact if main contacts become welded or stuck and ensures an accurate depiction of the safety system status displayed at all times.

Prevent unexpected operations
Front-mounted contact blocks are permanently fixed to protect devices against accidental misuse and operation. A factory-fitted transparent cover shields the contactor status indicator, providing additional protection.



Fast response for increased safety
With fast opening times as low as 35 ms, AFS09...AFS38 respond quickly when a dangerous failure is detected. Safety is enhanced and the safety distances of installations can be significantly shorter.



Built-in surge suppression
Unlike conventional contactors, ABB's AFS contactors have built-in surge suppression, preventing surges from ever reaching the control circuit. With no need for the usual external surge suppressor add-ons, ABB's solution means one less device to install and one less complication to manage.

Products safety data for machine manufacturers following harmonized EN standards:

– EN ISO 13849

– EN 62061

AFS09...AFS96 contactors technical data

B_{10D} electrical	1.3 million of cycles
B_{10D} mechanical	
AFS09...AFS65	20 million of cycles
AFS80, AFS96	16 million of cycles

Ordering details

IEC		UL/CSA		Rated control circuit voltage Uc min. ... Uc max.		Auxiliary contacts fitted		Type	Order code
Rated operational power 400 V AC-3	Current θ ≤ 40 °C AC-1	3-phase motor rating 480 V	General use rating 600 V AC						
kW	A	hp	A	V 50/60 Hz	V DC				
4	25	5	25	24...60	20...60 (1)	2	2	AFS09-30-22-11	1SBL137082R1122
				100...250	100..250	2	2	AFS09-30-22-13	1SBL137082R1322
5.5	28	7.5	28	24...60	20...60 (1)	2	2	AFS12-30-22-11	1SBL157082R1122
				100...250	100..250	2	2	AFS12-30-22-13	1SBL157082R1322
7.5	30	10	30	24...60	20...60 (1)	2	2	AFS16-30-22-11	1SBL177082R1122
				100...250	100..250	2	2	AFS16-30-22-13	1SBL177082R1322
11	45	15	45	24...60	20...60 (1)	2	2	AFS26-30-22-11	1SBL237082R1122
				100...250	100..250	2	2	AFS26-30-22-13	1SBL237082R1322
15	50	20	50	24...60	20...60 (1)	2	2	AFS30-30-22-11	1SBL277082R1122
				100...250	100..250	2	2	AFS30-30-22-13	1SBL277082R1322
18.5	50	20	50	24...60	20...60 (1)	2	2	AFS38-30-22-11	1SBL297082R1122
				100...250	100..250	2	2	AFS38-30-22-13	1SBL297082R1322
18.5	70	30	60	24...60	20...60 (1)	2	2	AFS40-30-22-11	1SBL347082R1122
				100...250	100..250	2	2	AFS40-30-22-13	1SBL347082R1322
22	100	40	80	24...60	20...60 (1)	2	2	AFS52-30-22-11	1SBL367082R1122
				100...250	100..250	2	2	AFS52-30-22-13	1SBL367082R1322
30	105	50	90	24...60	20...60 (1)	2	2	AFS65-30-22-11	1SBL387082R1122
				100...250	100..250	2	2	AFS65-30-22-13	1SBL387082R1322
37	125	60	105	24...60	20...60 (1)	2	2	AFS80-30-22-11	1SBL397082R1122
				100...250	100..250	2	2	AFS80-30-22-13	1SBL397082R1322
45	130	60	115	24...60	20...60 (1)	2	2	AFS96-30-22-11	1SBL407082R1122
				100...250	100..250	2	2	AFS96-30-22-13	1SBL407082R1322

(1) AFS..-30-..-11 for control by transistor outputs of safety PLCs and safety relays use interface relay RA4 1SBN060100R1000.

ABB Inc.
800 Boulevard Hymus
Saint-Laurent, Quebec H4S 0B5

Phone: 514-856-6266
Toll Free: 1-888-856-6266

abb.com/jokabsafety

1SXP172017B0202