



Panorama

Motor protection and control

Manual motor starters, contactors and overload relays

ABB sets a new standard in motor control and power switching

Featuring AF technology as standard, the latest range of ABB's contactors establishes a new industry benchmark. The electronically controlled coil offers multiple benefits over conventional alternatives, and together with ABB's wide product offering – an optimal configuration, every time.



Access Global Support

The contactor and motor protection range from ABB is compatible with all major national and international standards and is available worldwide via a global distribution network. One contactor coil now handles 100 V – 250 V, AC/DC for use in Europe or Asia as well as North America.



Optimize logistics

With its contactor and motor protection range, ABB has managed to reduce the number of contactor coils to just four. The total number of product variants has been reduced by up to 90%. This simplifies the customers' logistics and cuts administration costs.



Simplify design

By reducing contactor coil energy consumption by up to 80%, panels can be built smaller and transformers more compact. All the features of the AF technology, along with access to drawings and coordination tables online, simplifies your design and assembly process.



Secure uptime

Time to prevent stoppages caused by voltage fluctuations. The AF contactor ensures distinct operation in unstable networks and signifies a major advance in motor control and power switching. Voltage sags, dips and surges pose no threat. The AF contactor secures your uptime.



MacGregor. Keeping turnarounds brief.

Until the AF range was installed, voltage sags were affecting MacGregor's deck cranes. Conventional contactors welded shut, leading to several stoppages a week. No longer. Known for superior quality and an ability to operate in the most hostile environments, MacGregor deck cranes enjoy a global reputation for reliability. A small but vital component, the AF contactor helps maintain this reputation.

To keep things moving, you need Control. Connect to Control.

Explore all our case studies at www.abb.com/connecttocontrol

SSAB
Making certainty
standard

Gamesa
Taming the wind

LKAB
Providing fresh air



200	250	315	400	—	475	560	—	—
350	400	500	600	—	800	900	—	—
AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
400	460	580	750	—	860	1050	—	—
600	700	800	1050	1260	1350	1650	2050	2650
550	650	750	900	1210	1350	1650	2100	2700
—	6	—	7	—	—	8	—	—

CAL18 (1 x N.O. + 1 x N.C.)	
VM750H VM750V	VM1650H
BEM460-30	BEM750-30

E500DU (150...500 A)	E800DU (250...800 A)	E1250DU (375...1250 A)
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4-pole contactors



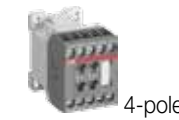
IEC	AC-1 Rated operational current	$\theta \leq 40^\circ\text{C}$, 690 V	A	25	30	45	55	70	100	125	200	250	300	350	550	800	1000
UL/CSA	General use rating	600 V	A	25	30	45	55	65	80	105	170	200	250	300	420	540	—
AC Control supply		Type	AF09	AF16	AF26	AF38	A45	A50	A75	EK110	EK150	EK175	EK210	EK370	EK550	EK1000	
DC Control supply		Type	AF09	AF16	AF26	AF38	AE45	AE50	AE75	EK110	EK150	EK175	EK210	EK370	EK550	EK1000	
AC / DC Control supply		Type	AF09	AF16	AF26	AF38	AF45	AF50	AF75	—	—	—	—	—	—	—	

Mini contactor relays



IEC	AC-15 Rated operational current	400 V	A	3	
UL/CSA	Pilot duty			A600	
AC Control supply		Type	K6-22Z	K6-31Z	K6-40E
DC Control supply		Type	KC6-22Z	KC6-31Z	KC6-40E
AC / DC Control supply		Type	—	—	—

Contactor relays



3	3	3
A600, Q300	A600, Q600	A600, Q600
NS22E	NS31E	NS40E
NSL22E	NSL31E	NSL40E
—	—	—
NF22E	NF31E	NF40E
NF22E	NF31E	NF40E
NF22E	NF31E	NF40E

R contactors

DC Circuit switching

DC-1 Rated current up to 5000 A
DC-3/DC-5 Rated current up to 2000 A
1500 V with poles in series

IOR.. 63...-CC to IOR.. 5100...-CC

AC Circuit switching

AC-1 Rated current up to 5000 A
AC-3 Rated power up to 1500 kW
(1520 A - 440 V)

IOR.. 63...-MT to IOR.. 5100...-MT

Special versions

AC / DC Coupling: LOR.. contactors
Slip ring motor control: FOR .. contactors
Field discharge: AM(F)-CC-JORE contactors
AC / DC Switching (N.C./N.O. main poles):
NOR & JOR contactors
Latching contactors for energy saving
and safety requirements: AMA or AME contactors

Specific contactors

Capacitor switching

12.5 to 80 kvar
UA16 to UA110 types
UA16..RA to UA110..RA types

DC Circuit switching

100 A, 440 V, DC-1
GA75, GAE75 types

275 to 2050 A, 1000 V, DC-1
GAF185 to GAF2050 types

Contact us

ABB France
Low Voltage Products Division
3, rue Jean Perrin
F-69687 Chassieu cedex / France

ABB STOTZ-KONTAKT GmbH
Eppelheimer Straße 82
D-69123 Heidelberg / Germany

ABB AB
Control Products
Low Voltage Products
SE-721 61 Västerås / Sweden

You can find the address of your local sales organisation
on the [ABB home page](#)



www.abb.com/connecttocontrol



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