



Panorama

AX contactor range  
Control made simple  
The performance you need

# AX contactor range

## Control made simple – The performance you need

The AX contactor range offer reliable performance, in a compact and modern design



### Technical data

- Rated operational current (Ie): 9...370 A (400 V AC-3)
- Motor rated operational power: 4...200 kW (400 V AC-3)
- AC control supply
- Width from 44 mm (9 A) to 145 mm (370 A)
- Ambient temperature up to 70 °C.

### Accessories

- Auxiliary contacts front- and side-mounted
- Mechanical and electrical interlocks
- Timers
- Surge suppressors
- Terminal shrouds, enlargements and extensions
- Connection kits
- Thermal and electronic overload relays.

### Certifications



### Manual motor starters

- With thermal and magnetic protection
- With magnetic protection only.

### Common applications :

HVAC, pumps, compressors, paper industry, mining, general machinery, switchgear panels, elevator and escalators, building, etc.



# 3-pole contactors for motor control and power switching



IEC	AC-3 Rated operational power	$\theta \leq 55^\circ\text{C}$ , 400 V	kW	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200
	AC Control supply		Type	AX09	AX12	AX18	AX25	AX32	AX40	AX50	AX65	AX80	AX95	AX115	AX150	AX185	AX205	AX260	AX300	AX370
IEC	AC-3 Rated operational current	$\theta \leq 55^\circ\text{C}$ , 400 V	A	9	12	18	25	32	40	50	65	80	96	115	150	185	205	265	305	370
	AC-1 Rated operational current	$\theta \leq 40^\circ\text{C}$ , 690 V	A	22	25	27	32	55	60	100	115	125	145	160	190	250	275	400	500	600

## Main accessories

Auxiliary contact blocks	Front mounting	CA5X-10 (1 x N.O.) CA5X-01 (1 x N.C.) CA5X-4 pole (add on block with 4 contacts N.O. or N.C. combination)
	Side mounting	CAL5X-11 (1 x N.O. + 1 x N.C.)
Timers	Electronic	TEF5-ON TEF5-OFF
	Mechanical	VM5-1
Interlocking units	Mechanical / Electrical	VE5-1
		VE5-2
Surge suppressors	Varistor (AC / DC)	RV5 (24...440 V)
	RC type (AC)	RC5-1 (24...440 V)
		RC5-2 (24...440 V)
		RC5-3 (250...440 V)
		VM300H
		VM19
		CAL18X-11 (1 x N.O. + 1 x N.C.)
		CAL19-11 (1 x N.O. + 1 x N.C.)

## Overload relays

	Class 10A for TA	TA25DU-M (0.10...32 A) (1)	TA75DU-M (18...80 A) (2)	TA80DU (29...80 A)	TA200DU (66...200 A) (3)	EF370 (115...380 A)
	Class 10E, 20E, 30E for EF	TA42DU-M (18...42 A)	TA110DU (66...110 A)			

(1) The max. AC-3 operational current is 23 A for AX25 with TA25DU-25M – (2) The max. AC-3 operational current is 74 A for AX80 with TA75DU-80M – (3) The max. AC-3 operational current is 182 A for AX205 with TA200DU-200.

## Manual motor starters

	Thermal / magnetic protection	MS116 (0.10...32 A) lcs up to 50 kA for class 10A	MS450 (28...50 A) lcs up to 50 kA		
	Class 10	MS132 (0.10...32 A) lcs up to 100 kA	MS495 (45...100 A) lcs up to 50 kA		
	Magnetic types only	MO132 (0.16...32 A) lcs up to 100 kA	MS497 (22...100 A) lcs up to 100 kA		
			MO496 (32...100 A) lcs up to 100 kA		
Accessories	For contactor mounting	BEA16/116 (4)	BEA40/450 For MS450	BEA50/450 For MS450	BEA100/495 For MS495
		BEA25/116 (4)	BEA25/132 (5)	BEA75/495 For MS495	

(4) AX.. with MS116-0.16 ... MS116-16 or MS132-0.16 ... MS132-10 – (5) AX25 with MS116-20 ... MS116-32 or MS132-12 ... MS132-32.

## Short-circuit protection devices

MCCB and switch fuses



# Contactors relays



IEC	AC-15 Rated operational current	400 V	A	3
<b>AC Control supply</b> Type				<b>NX22E</b>
IEC Conventional free-air thermal current I <sub>th</sub>				<b>NX31E</b>
$\theta \leq 40\text{ }^{\circ}\text{C}$ A				<b>NX40E</b>
				16

## Main accessories

<b>Auxiliary contact blocks</b>	Front mounting	<b>CA5X-10</b> (1 x N.O.) <b>CA5X-01</b> (1 x N.C.) <b>CA5X-4 pole</b> (add on block with 4 contacts NO or NC combination)
	Side mounting	<b>CAL5X-11</b> (1 x N.O. + 1 x N.C.)
<b>Timers</b>	Electronic	<b>TEF5-ON</b> <b>TEF5-OFF</b>
<b>Surge suppressors</b>	Varistor (AC / DC)	<b>RV5</b> (24...440 V)
	RC type (AC)	<b>RC5-1</b> (24...440 V)

# Other contactor ranges

## 3-pole contactors



**AC / DC Control supply**  
 4...560 kW, 400 V, AC-3  
 25...2650 A, 690 V, AC-1  
**AF09 ... AF2650 types**

## 4-pole contactors



**AC and DC Control supply**  
 25...1000 A, 690 V, AC-1

# Specific contactors

## DC circuit switching



100 A, 440 V, DC-1  
**GA75, GAE75 types**  
 275...2050 A, 1000 V, DC-1  
**GAF185 ... GAF2050 types**

## Capacitor switching



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

# Contact us

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[www.abb.com/lowvoltage](http://www.abb.com/lowvoltage)

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