

A202 Mechanically Latched



A202 Magnetically Latched

Product Description

The A202 Lighting Contactor from Eaton's Electrical Sector provides a safe and convenient means for local or remote switching of relatively large tungsten, fluorescent or mercury arc lamp loads.

Application Description

- The magnetically latched lighting contactors are designed to withstand the large initial inrush currents of tungsten lamp loads without contact welding
- The A202 contactors are fully rated devices that do not require de-rating similar to standard motor control contactors
- The magnetically latched lighting contactor provides effective control in applications such as office buildings, industrial plants, hospitals, stadiums, airports, and so on

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Features

- Designed and tested specifically for lighting and resistive loads
- Easy to install and maintain
- No control power necessary to maintain contact closure

Operation

A permanent magnet is built into the contactor structure that will maintain the contactor in its energized state indefinitely without using control power. When energized, a DC current is applied to the latch coil, producing a magnetic field that reinforces the polarity of the permanent magnet, pulling in the contactor. The coil clearing interlock disconnects the current to the coil. In order to drop out the contactor, it is necessary to apply a field through the STOP coil in the reverse direction to the permanent magnet. This momentarily cancels the magnetic attraction and the contactor drops out.

Standards and Certifications

- UL Listed File No. E44424, Guide NRNT
- CSA Certified File No. LR39402, Class 3231-01
- Designed and built to NEMA ICS-2 Standards



Instructional Leaflets

- IL16965 30A (2-, 3-, 4-, 5-Poles)
- IL16966 60A (2-, 3-, 4-, 5-Poles)
- IL17509 100–200A

6.1

Lighting Contactors

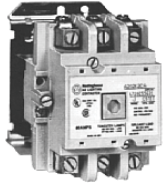
Open Control

Product Selection

When Ordering Specify

- Catalog number with coil suffix code from the Magnet Coil Selection table
- Any required accessories

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Latched AC Lighting Contactors ^{①②}

Holding Circuit Auxiliary Contact or Pushbutton Station Not Included

Continuous Amperes (Enclosed)	Number of Poles	Open Type Catalog Number ^③	
30	2	A202K1B_M	
	3	A202K1C_M	
	4	A202K1D_M	
	5	A202K1E_M	
	6	A202K1F_M	
	8	A202K1G_M	
	10	A202K1H_M	
	12	A202K1K_M	
	60	2	A202K2B_M
		3	A202K2C_M
		4	A202K2D_M
		5	A202K2E_M
6		A202K2F_M	
8		A202K2G_M	
10		A202K2H_M	
12		A202K2K_M	
100		2	A202K3B_M
		3	A202K3C_M
		4	A202K3D_M
		5	A202K3E_M
	6	A202K3F_M	
	8	A202K3G_M	
	10	A202K3H_M	
	12	A202K3K_M	
	200	2	A202K4B_M
		3	A202K4C_M
		4	A202K4D_M
		5	A202K4E_M
6		A202K4F_M	
8		A202K4G_M	
10		A202K4H_M	
12		A202K4K_M	
300		2	A202K5B_M
		3	A202K5C_M
400		2	A202K6B_M
		3	A202K6C_M

Magnet Coil Selection

Coil Voltage	Catalog Number Suffix
120V, 60 Hz	A
208V, 60 Hz	B
277V, 60 Hz	Z
440V/50, 480V/60	X
600V, 60 Hz	E
120V/60, 110V/50	A
220V/50, 240V/60	W
24V, 60 Hz	I ^④

Accessories

See A200 NEMA Contactor Accessories, Tab 2, section 2.2 in this volume.

Notes

- ① Lighting contactors are not available with DC coils.
- ② Contactors rated 300A and 400A are mechanically latched.
- ③ Underscore (_) indicates missing code letter for magnet coil selection—see Magnet Coil Selection table.
- ④ Available on two- to five-pole, 30 and 60A devices and on two- to three-pole 100 and 200A devices.