

# Lighting contactors

Eaton's lighting contactors are specifically designed for lighting loads and are rated specifically for the high inrush currents associated with lighting loads. These lighting contactors, available as mechanically or electrically held, are an ideal solution for controlling tungsten (incandescent filament), ballast (fluorescent and mercury arc), high intensity discharge (HID) and non-motor AC resistive loads.

## Sample applications

- Hospitals
- Office buildings
- Industrial plants
- Airports
- Stadiums

## Features

- Easy to install and maintain
- Industrial and efficient
- Safe and convenient means for local or remote switching of lamp loads
- Suitable for pressure and high-pressure sodium lamp loads and other non-motor (resistive) loads
- Can withstand the large initial inrush currents of tungsten lamp loads without contact welding
- AC and DC coil voltages available
- Wide range of available accessories for each contactor type

- Fully rated and does not require de-rating
- Open and enclosed options available

## Related materials and documentation

- Catalog CA08100006E – Volume 5, Tab 6: Lighting
- Lighting Contactors Quick Selector - TD03701001E
- C30CN Lighting Brochure - PA037001EN
- [www.eaton.com/a202](http://www.eaton.com/a202)
- [www.eaton.com/c30cn](http://www.eaton.com/c30cn)
- [www.eaton.com/cn35](http://www.eaton.com/cn35)

## A202



### Ratings:

- 30A – 400A, 12 Poles
- 30A – 200A (2P-12P)
- 300A & 400A (2P & 3P)

- Designed for large loads, 30-400A, 2-12 poles (12 poles up to 200A)
- Mechanically held
- Designed with a permanent magnet that will maintain the contactor in its energized state indefinitely without using control power
- Magnetically latched
  - Enables the contactor to operate with no coil hum
- No control power necessary to maintain contact closure
- Ideal for applications where contact closure is required during power failure

## C30CN

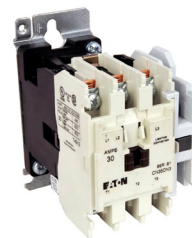


### Ratings:

- 30A only
- 2P – 12P

- Modular design with up to 12 power poles (30A per pole max.) flexibility to add/remove poles
- Easy to snap on additional poles
- Low magnet noise
- Power poles convert from NO to NC with a simple 180 degree turn
- Electrically or mechanically held
  - Field convertible from electrically held to mechanically held and vice versa
- Ideal for 20-30A applications that require quiet and energy-efficient operation.

## CN35



### Ratings:

- 10A – 400A, 12 Poles
- 10A (2P-4P)
- 20A – 30A (2P-12P)
- 60A (2P-5P)
- 100A – 400A (2P&3P)

- Full line of Freedom snap-on accessories:
  - Pneumatic timers, solid-state timers, suppressors and auxiliaries (side and top mounted)
- Electrically held
- Standard with 1NO auxiliary contact
- Ideal for applications where it is not critical that contacts stay closed with loss of control power.
- Needs continuous control power for operation



Powering Business Worldwide

### A202 Catalog selection

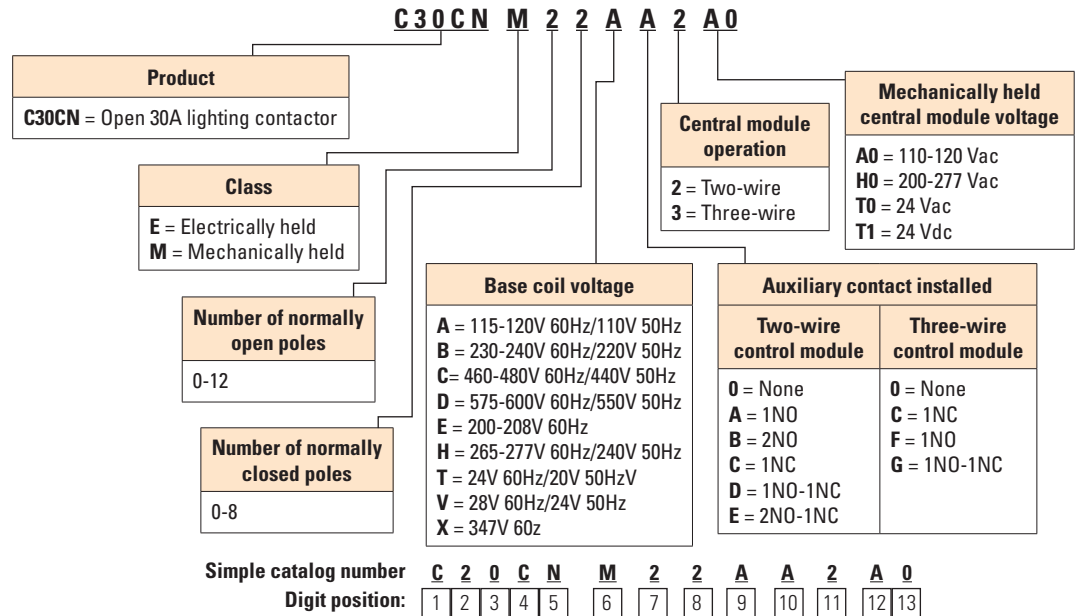
Continuous amps (enclosed)	Number of poles	Open type catalog number	
30	2	A202K1B_M	
	3	A202K1C_M	
	4	A202K1D_M	
	5	A202K1E_M	
	6	A202K1F_M	
	8	A202K1G_M	
	10	A202K1H_M	
	12	A202K1K_M	
	60	2	A202K2B_M
		3	A202K2C_M
		4	A202K2D_M
		5	A202K2E_M
6		A202K2F_M	
8		A202K2G_M	
10		A202K2H_M	
12		A202K2K_M	
100		2	A202K3B_M
		3	A202K3C_M
		4	A202K3D_M
		5	A202K3E_M
	6	A202K3F_M	
	8	A202K3G_M	
200	10	A202K3H_M	
	12	A202K3K_M	
	300	Additional models with higher continuous amperes available. Consult the Lighting Catalog (CA08100006E) – Volume 5, Tab 6: Lighting	
	400		

### A202 Magnet coil selection

Coil voltage and hertz	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 ①

① Available on two- to five-pole, 30 and 60A devices and on two- to three-pole 100 and 200A devices.

### C30CN Catalog selection – from catalog page V5-T6-5



### CN35 Catalog selection

Max ampere rating	Number of Poles	Open Type Catalog Number
10	2	CN35AN2_B
	3	CN35AN3_B
	4	CN35AN4_B
20	2	CN35BN2_B
	3	CN35BN3_B
	4	CN35BN4_B
	6	CN35BN6_B
	9	CN35BN9_B
	12	CN35BN12_B
30	2	CN35DN2_B
	3	CN35DN3_B
	4	CN35DN4_B
	5	CN35DN5_B
	6	CN35DN6_B
	9	CN35DN9_B
60	12	CN35DN12_B
	2	CN35GN2_B
	3	CN35GN3_B
100	4	CN35GN4_B
	5	CN35GN5_B
	Additional models with higher continuous amperes available. Consult the Lighting Catalog (CA08100006E) – Volume 5, Tab 6: Lighting	

### CN35 Magnet coil selection

Coil voltage and hertz	Catalog number suffix
120/60 or 110/50	A
240/60 or 220/50	B
480/60 or 440/50	C
600/60 or 550/50	D
208/60	E
277/60	H
208–240/60 ①	J
240/50	K
380–415/60	L
550/50	N
24/60, 24/50 ②	T
24/50	U
32/50	V
48/60	W
48/50	Y

① For 10, 20 and 30A sizes only. Sizes 60–400A are 24V/60 Hz only.

② For 10, 20 and 30A sizes only.

For more information, visit

[Eaton.com/lightingcontactors](http://Eaton.com/lightingcontactors)



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