

# Lighting Contactors for the Construction Market

## C30CN Electrically and Mechanically Held – Overview

- For efficient control of industrial, commercial and outdoor lighting applications
- Modular design with up to 12 power poles (30A per pole max.), flexibility to add/remove poles
- Power poles convert from NO to NC with a simple 180 degree turn
- Field convertible from electrically held to mechanically held and vice versa
- Suitable for tungsten, ballast, HID, and non-motor AC resistive loads

## C30CN Components – Model Selection

### Electrically Held Base Contactor – Overview

The C30CNE20\_0 electrically held base contactor contains a 2NO power pole as standard and will allow the addition of power poles to build an electrically held contactor up to 12 poles maximum. A mechanically held module kit can also be added to convert the electrically held contactor to mechanically held in the field.



### Electrically Held Base Contactor – Model Selection

Power Poles	Catalog Number <sup>1</sup>
2NO	C30CNE20_0

<sup>1</sup> When ordering, replace magnet coil alpha designation in catalog number ( ) with proper code suffix from table below.

### Electrically Held Base Contactor – Coil Voltage

Coil Voltage/Hertz	Code Suffix	Coil Voltage/Hertz	Code Suffix
115-120/60, 110/50	A	265-277/60, 240/50	H
230-240/60, 220/50	B	24/60, 20/50	T
460-480/60, 440/50	C	28/60, 24/50	V
575-600/60, 550/50	D	347/60	X
200-208/60	E		

### Auxiliary Contacts – Model Selection

Auxiliary Block	Catalog Number
Single-Pole	C320AMH1
Double-Pole	C320AMH2



### Mechanically Held Module Kits – Overview

These kits are for converting electrically held contactors to mechanically held units. Kits include control module, latch, latch cover and auxiliary contacts plus installation instructions.



### Mechanically Held Kits – Model Selection

Coil Volts	Control Volts	Catalog Number
<i>2-Wire</i>		
24-277V AC	110-120V AC	C320MH2WAO
	200-277V AC	C320MH2WHO
	24V AC	C320MH2WTO
	12-24V DC	C320MH2WT1
	<i>3-Wire</i>	
24-277V AC	110-120V AC	C320MH3WAO
	200-277V AC	C320MH3WHO
	24V AC	C320MH3WTO
	12-24V DC	C320MH3WT1

### Power Poles – Overview

The C30CN contactor accepts up to a maximum six single- or double-pole (or combinations) power poles. These can be used to form up to:

- 12 NO poles max. when six double-poles are used in NO positions (1-6)
- 8 NC poles max. with four double-poles in the NC position (1-4) and four NO poles with two double-poles in the two NO positions (5-6)

### Power Poles – Model Selection

Power Poles	Catalog Number
Single-Pole	C320PRP1
Double-Pole	C320PRP2



# EATON

Powering Business Worldwide

## A202 Magnetically Latched – Overview

- Designed with a permanent magnet that will maintain the contactor in its energized state indefinitely without using control power
- Ideal for applications where contact closure is required during power failure
- Easy to install and maintain
- No control power necessary to maintain contact closure



## A202 Contactors – Model Selection

Holding Circuit Auxiliary Contact or Pushbutton Station Not Included

Continuous Amperes (Enclosed)	Number of Poles	Open Type Catalog Number <sup>1,2</sup>
30	2	A202K1B_M
	3	A202K1C_M
	4	A202K1D_M
	5	A202K1E_M
	6	A202K1F_M
	8	A202K1G_M
	10	A202K1H_M
60	2	A202K2B_M
	3	A202K2C_M
	4	A202K2D_M
	5	A202K2E_M
	6	A202K2F_M
	8	A202K2G_M
	10	A202K2H_M
100	2	A202K3B_M
	3	A202K3C_M
	4	A202K3D_M
	5	A202K3E_M
	6	A202K3F_M
	8	A202K3G_M
	10	A202K3H_M
200	2	A202K3K_M
	3	A202K3L_M
	4	A202K3M_M
	5	A202K3N_M
	6	A202K3O_M
	8	A202K3P_M
	10	A202K3Q_M
300		Additional models with higher continuous amperes available. Consult the Controls Catalog (CA08102001E), Tab 37 for a full model listing.
400		Additional models with higher continuous amperes available. Consult the Controls Catalog (CA08102001E), Tab 37 for a full model listing.

<sup>1</sup> The underscore ( \_ ) indicates missing code letter for magnet coil selection, see table below.

<sup>2</sup> Lighting contactors are not available with DC coils.

## A202 Magnet Coil – Selection

Coil Voltage/Hertz	Catalog Number Suffix	Coil Voltage/Hertz	Catalog Number Suffix
120/60	A	600/60	E
208/60	B	120/60, 110/50	A
277/60	Z	220/50, 240/60	Q
440/50, 480/60	X	24/60	I <sup>3</sup>

<sup>3</sup> Available in 2- to 5-pole, 30 and 60A devices and on 2- to 3-pole, 100 and 200A devices.

## CN35 Electrically Held – Overview

- Easy to install and maintain
- Full line of Freedom snap-on accessories
- Standard with 1NO auxiliary contact



## CN35 Contactors – Model Selection

Maximum Ampere Rating <sup>4</sup>	Number of Poles	Open Type Catalog Number <sup>5</sup>
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
30	12	CN35BN12_B
	2	CN35DN2_B
	3	CN35DN3_B
	4	CN35DN4_B
60	5	CN35DN5_B
	6	CN35DN6_B
	9	CN35DN9_B
	12	CN35DN12_B
	2	CN35GN2_B
100	3	CN35GN3_B
	4 <sup>6</sup>	CN35GN4_B
	5 <sup>6</sup>	CN35GN5_B
200	2	CN35KN2_
	3	CN35KN3_
300		Additional models with higher maximum amperes ratings available. Consult the Controls Catalog (CA08102001E), Tab 37 for a full model listing.
400 <sup>7</sup>		Additional models with higher maximum amperes ratings available. Consult the Controls Catalog (CA08102001E), Tab 37 for a full model listing.

<sup>4</sup> The listed ampere ratings are based on a maximum load voltage of 480V for tungsten lamp applications and 600V for ballast or mercury vapor type applications.

<sup>5</sup> The underscore ( \_ ) indicates missing code letter for magnet coil selection, see table below.

<sup>6</sup> Additional power poles mounted on side(s) of contactor.

<sup>7</sup> UL ballast and resistive ratings only.

## CN35 Magnet Coil – Selection

Coil Voltage/Hertz <sup>8</sup>	Catalog Number Suffix	Coil Voltage/Hertz	Catalog Number Suffix
120/60, 110/50	A	380-415/60	L
240/60, 220/50	B	550/50	N
480/60, 440/50	C	24/60, 24/50 <sup>10</sup>	T
600/60, 550/50	D	24/50	U
208/60	E	32/50	V
277/60	H	48/60	W
208-240/60 <sup>9</sup>	J	48/50	Y
240/50	K		

<sup>8</sup> For DC magnet coils, see the Controls Catalog (CA08102001E), Tab 33.

<sup>9</sup> For 10, 20 and 30A sizes only.

<sup>10</sup> For 10, 20 and 30A sizes only. Sizes 60-400A are 24V/60Hz only.

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