# CN35 Electrically Held

C30CN Mechanically and Electrically Held 6.1



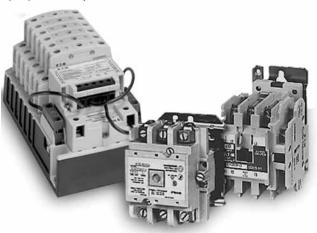
A202 Magnetically Latched



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**Open Control** 

Lighting Contactors-Open Control



### **Product Overview**

### C30CN Mechanically and Electrically Held

Electrically and Mechanically Held C30CN Lighting Contactor by Eaton Electrical delivers unprecedented versatility in application, simplicity in configuration, and performance in operation. With a revolutionary design, rugged construction and expansive feature set, the C30CN is the right solution for effectively controlling tungsten (incandescent filament), ballast (fluorescent and mercury arc), High Intensity Discharge (HID), and nonmotor AC resistive loads.

# Application Description

### Magnetically Latched—A202

Used in applications where it is critical that the contactor will not switch to an off position during control power failure.

30–200A contactors use an electrically energized and deenergized permanent magnet, while the 300 and 400A contactors use a mechanical latch to hold contacts closed during the operation (no continuous control current).

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### **Electrically Held CN35**

Use in applications where it is not critical that contacts stay closed with loss of control power.

- Control power is applied continuously during operation
- 10–400A, 600 volt maximum rating
- 12 poles maximum for 20 and 30A devices

**Open Control** 

#### **C30CNM Mechanically and Electrically Held**



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### C30CN Mechanically and Electrically Held

### **Product Description**

The C30CNM 30A Mechanically Held Lighting Contactors from Eaton's Electrical Sector are designed for industrial, commercial and outdoor lighting applications where efficient control is required. The mechanically held operation ensures that the contactor will not switch to OFF during control power failure. It also ensures the removal of coil from the circuit for noise-free operation and the elimination of all coil losses after the contactor is latched. The control module microprocessor validates the control signal before operation, so it will not respond to momentary voltage spikes of noise. The operation command has a built-in 0.4 second delay to avoid multiple short-term commands that can cause contact fatigue or failure. Also, the feedback loop prevents the contactor from getting out of sequence with switches, even after power failures.

### **Application Description**

The mechanically held lighting contactor provides effective control in applications such as office buildings, industrial plants, hospitals, stadiums, airports, and so on.

They are ideal for applications that require quiet, energyefficient operation.

Designed to handle different load types:

- Tungsten (incandescent filament)
- Ballast (fluorescent and mercury arc)
- High intensity discharge (HID)
- Non-motor AC resistive
- Single- and three-phase motor ratings

### Operation

Three-wire control is the choice for use with momentary devices allowing operation from multiple locations. A momentary pulse of energy operates the contactor while a second pulse on an alternate leg returns the contactor to its original state.

Two-wire control is the choice for single output automatic operation or for operation from single-pole devices. When voltage is applied to the input terminals the contactor is latched into position (coil is removed from the circuit while control voltage is continuously supplied). When control voltage is removed, the latch is disengaged and the contactor is returned to its original state.

Open Control

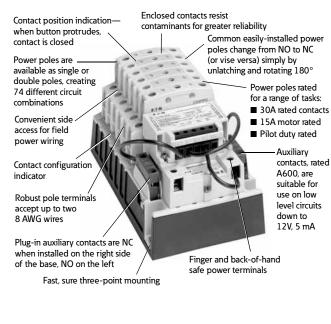
### Features

See figure below.

**C30CNM Features** 

- 30A power pole rating
- Up to 12 poles maximum
- Power poles latch easily onto the base, and designating them as NO or NC is a simple matter of left or right positioning.
   Additional poles, either NO or NC, may be easily added at any time
- Low magnetic noise results in quiet operation
  - Low input VA permits long wire runs
  - Come in a wide range of input voltages and with coils from 24 Vac to 277 Vac and 12 Vac to 24 Vdc

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### **Standards and Certifications**

- UL listed File E1491, UL Category Code/ Guide NLDX/NLDX7
- cUL
- CE
- Designed and built to NEMA ICS-2 Standards



	Lighting Contactors
50767	Power Pole Kit for C30CN Lighting

Instructional Leaflets

50765 C30CN Lighting

50766 Coil Kit for C30CN

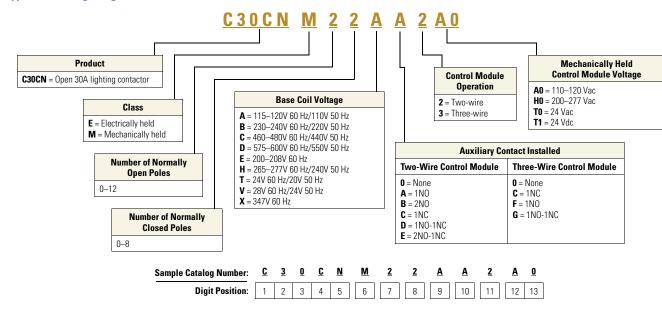
Contactors

**Contactor Series** 

50768 Control Module Kit for C30CN Lighting Contactors

### **Catalog Number Selection**

### **Type C30CN Lighting Contactors**



C30CN\_

**Open Control** 

### **Product Selection**

### Two-Wire Mechanically Held Lighting Contactors— Standard Assembled Forms

The Standard Assembled Forms in tables on Pages V5-T6-6 and V5-T6-7 are two-wire open mechanically held 30A lighting contactors with 120V 60 Hz/110V 50 Hz base coil voltage, 120V control module voltage, and no additional auxiliary contacts. To change the base coil voltage, auxiliary contact options or control module voltage, refer to tables on Page V5-T6-7.

Number of Poles	NO	NC	Catalog Number 123
2	0	2	C30CNM02A02A0
	1	1	C30CNM11A02A0
	2	0	C30CNM20A02A0
3	0	3	C30CNM03A02A0
	1	2	C30CNM12A02A0
	2	1	C30CNM21A02A0
	3	0	C30CNM30A02A0
4	0	4	C30CNM04A02A0
	1	3	C30CNM13A02A0
	2	2	C30CNM22A02A0
	3	1	C30CNM31A02A0
	4	0	C30CNM40A02A0
5	0	5	C30CNM05A02A0
	1	4	C30CNM14A02A0
	2	3	C30CNM23A02A0
	3	2	C30CNM32A02A0
	4	1	C30CNM41A02A0
	5	0	C30CNM50A02A0
3	0	6	C30CNM06A02A0
	1	5	C30CNM15A02A0
	2	4	C30CNM24A02A0
	3	3	C30CNM33A02A0
	4	2	C30CNM42A02A0
	5	1	C30CNM51A02A0
	6	0	C30CNM60A02A0
7	0	7	C30CNM07A02A0
	1	6	C30CNM16A02A0
	2	5	C30CNM25A02A0
	3	4	C30CNM34A02A0
	4	3	C30CNM43A02A0
	5	2	C30CNM52A02A0
	6	1	C30CNM61A02A0
	7	0	C30CNM70A02A0
}	0	8	C30CNM08A02A0
	1	7	C30CNM17A02A0
	2	6	C30CNM26A02A0
	3	5	C30CNM35A02A0
	4	4	C30CNM44A02A0
	5	3	C30CNM53A02A0
	6	2	C30CNM62A02A0
	7	1	C30CNM71A02A0
	8	0	C30CNM80A02A0

### Hold Linhtin Contortor

Notes

① To change the base coil voltage, replace the content of Position 9 with the appropriate code suffix from the table on Page V5-T6-7.

 $^{\odot}\,$  To change auxiliary contact options, replace the content of Position 10 with the appropriate code suffix from the table on Page V5-T6-7.

<sup>③</sup> To change the control module voltage, replace the content of Positions 12-13 with the appropriate code suffix from the table on Page V5-T6-7.

# Two-Wire Mechanically Held Lighting Contactors—Standard Assembled Forms, continued

NO	NC	Catalog Number 123
1	8	C30CNM18A02A0
2	7	C30CNM27A02A0
3	6	C30CNM36A02A0
4	5	C30CNM45A02A0
5	4	C30CNM54A02A0
6	3	C30CNM63A02A0
7	2	C30CNM72A02A0
8	1	C30CNM81A02A0
9	0	C30CNM90A02A0
2	8	C30CNM28A02A0
3	7	C30CNM37A02A0
4	6	C30CNM46A02A0
5	5	C30CNM55A02A0
6	4	C30CNM64A02A0
7	3	C30CNM73A02A0
8	2	C30CNM82A02A0
9	1	C30CNM91A02A0
10	0	C30CNM100A02A0
3	8	C30CNM38A02A0
4	7	C30CNM47A02A0
5	6	C30CNM56A02A0
6	5	C30CNM65A02A0
7	4	C30CNM74A02A0
8	3	C30CNM83A02A0
9	2	C30CNM92A02A0
10	1	C30CNM101A02A0
		C30CNM110A02A0
	-	C30CNM48A02A0
	-	C30CNM66A02A0
	-	C30CNM84A02A0
		C30CNM102A02A0
10	0	C30CNM120A02A0
	$     \begin{array}{c}       1 \\       2 \\       3 \\       4 \\       5 \\       6 \\       7 \\       8 \\       9 \\       2 \\       3 \\       4 \\       5 \\       6 \\       7 \\       8 \\       9 \\       10 \\       3 \\       4 \\       5 \\       6 \\       7 \\       8 \\       9 \\       10 \\       11 \\       4 \\       6 \\       8 \\       10 \\       11 \\       4 \\       6 \\       8 \\       10 \\       11 \\       4 \\       6 \\       8 \\       10 \\       10 \\       11 \\       4 \\       6 \\       8 \\       10 \\       10 \\       11 \\       4 \\       6 \\       8 \\       10 \\       10 \\       11 \\       4 \\       6 \\       8 \\       10 \\       10 \\       11 \\       10 \\       11 \\       10 \\       11 \\       10 \\       11 \\       10 \\       10 \\       11 \\       10 \\       10 \\       11 \\       10 \\       10 \\       11 \\       10 \\       10 \\       11 \\       10$	$     \begin{array}{ccccccccccccccccccccccccccccccccc$

### Base Coil Voltage (Digit 9) @

Voltage	Code Suffix
115–120V 60 Hz/110V 50 Hz	А
230–240V 60 Hz/220V 50 Hz	В
460-480V 60 Hz/440V 50 Hz	C
575–600V 60 Hz/550V 50 Hz	D
200–208V 60 Hz	E
265–277V 60 Hz/240V 50 Hz	Н
24V 60 Hz/20V 50 Hz	т
28V 60 Hz/24V 50 Hz	v
347V 60 Hz	X

### **Auxiliary Contact Installed (Digit 10)**

Control Module	Circuit	Code Suffix
Two-wire	None	0
	1N0	Α
	2N0	В
	1NC	C
	1NO-1NC	D
	2NO-1NC	E

### **Control Module Voltage (Digit 12-13)**

Coil Module	Code Suffix
110–120 Vac	A0
200–277 Vac	Но
24 Vac	ТО
12–24 Vdc	T1

### Notes

 $^{\odot}\,$  To change the base coil voltage, replace the content of Position 9 with the appropriate code suffix from the table above.

② To change auxiliary contact options, replace the content of Position 10 with the appropriate code suffix from the table above.

③ To change the control module voltage, replace the content of Positions 12-13 with the appropriate code suffix from the table above.

④ If coil supply is greater than 277V, use CPT.

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**Open Control** 

#### Three-Wire Mechanically Held Lighting Contactors— Standard Assembled Forms

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The Standard Assembled Forms in the table on

Page V5-T6-8 are three-wire open mechanically held 30A lighting contactors with 120V 60 Hz/110V 50 Hz base coil voltage, 120V control module voltage, and no additional auxiliary contacts. To change the base coil voltage, auxiliary contact options or control module voltage, refer to the tables on Page V5-T6-9.

Number of Poles	NO	NC	Catalog Number 123
2	0	2	C30CNM02A03A0
	1	1	C30CNM11A03A0
	2	0	C30CNM20A03A0
3	0	3	C30CNM03A03A0
	1	2	C30CNM12A03A0
	2	1	C30CNM21A03A0
	3	0	C30CNM30A03A0
4	0	4	C30CNM04A03A0
	1	3	C30CNM13A03A0
	2	2	C30CNM22A03A0
	3	1	C30CNM31A03A0
	4	0	C30CNM40A03A0
5	0	5	C30CNM05A03A0
	1	4	C30CNM14A03A0
	2	3	C30CNM23A03A0
	3	2	C30CNM32A03A0
	4	1	C30CNM41A03A0
	5	0	C30CNM50A03A0
6	0	6	C30CNM06A03A0
	1	5	C30CNM15A03A0
	2	4	C30CNM24A03A0
	3	3	C30CNM33A03A0
	4	2	C30CNM42A03A0
	5	1	C30CNM51A03A0
	6	0	C30CNM60A03A0
7	0	7	C30CNM07A03A0
	1	6	C30CNM16A03A0
	2	5	C30CNM25A03A0
	3	4	C30CNM34A03A0
	4	3	C30CNM43A03A0
	5	2	C30CNM52A03A0
	6	1	C30CNM61A03A0
	7	0	C30CNM70A03A0
8	0	8	C30CNM08A03A0
	1	7	C30CNM17A03A0
	2	6	C30CNM26A03A0
	3	5	C30CNM35A03A0
	4	4	C30CNM44A03A0
	5	3	C30CNM53A03A0
	6	2	C30CNM62A03A0
	7	1	C30CNM71A03A0
	8	0	C30CNM80A03A0
	-	-	

Three-Wire Mechanically Held Lighting Contactors-Standard Assembled Forms

#### Notes

① To change the base coil voltage, replace the content of Position 9 with the appropriate code suffix from the table on Page V5-T6-9.

<sup>②</sup> To change auxiliary contact options, replace the content of Position 10 with the appropriate code suffix from the table on Page V5-T6-9.

③ To change the control module voltage, replace the content of Positions 12-13 with the appropriate code suffix from the table on Page V5-T6-9.

### **Open Control**

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### Three-Wire Mechanically Held Lighting Contactors-**Standard Assembled Forms, continued**

Number of Poles	NO	NC	Catalog Number 123
9	1	8	C30CNM18A03A0
	2	7	C30CNM27A03A0
	3	6	C30CNM36A03A0
	4	5	C30CNM45A03A0
	5	4	C30CNM54A03A0
	6	3	C30CNM63A03A0
	7	2	C30CNM72A03A0
	8	1	C30CNM81A03A0
	9	0	C30CNM90A03A0
10	2	8	C30CNM28A03A0
	3	7	C30CNM37A03A0
	4	6	C30CNM46A03A0
	5	5	C30CNM55A03A0
	6	4	C30CNM64A03A0
	7	3	C30CNM73A03A0
	8	2	C30CNM82A03A0
	9	1	C30CNM91A03A0
	10	0	C30CNM100A03A0
11	3	8	C30CNM38A03A0
	4	7	C30CNM47A03A0
	5	6	C30CNM56A03A0
	6	5	C30CNM65A03A0
	7	4	C30CNM74A03A0
	8	3	C30CNM83A03A0
	9	2	C30CNM92A03A0
	10	1	C30CNM101A03A0
	11	0	C30CNM110A03A0
12	4	8	C30CNM48A03A0
	6	6	C30CNM66A03A0
	8	4	C30CNM84A03A0
	10	2	C30CNM102A03A0
	12	0	C30CNM120A03A0

### Base Coil Voltage (Digit 9) @

Voltage	Code Suffix
115–120V 60 Hz/110V 50 Hz	A
230–240V 60 Hz/220V 50 Hz	В
460-480V 60 Hz/440V 50 Hz	C
575–600V 60 Hz/550V 50 Hz	D
200–208V 60 Hz	E
265–277V 60 Hz/240V 50 Hz	Н
24V 60 Hz/20V 50 Hz	т
28V 60 Hz/24V 50 Hz	V
347V 60 Hz	X

### **Auxiliary Contact Installed (Digit 10)**

Control Module	Circuit	Code Suffix	
Three-wire	None	0	
	1NC	C	
	1N0	F	
	1NO-1NC	G	

### **Control Module Voltage (Digit 12-13)**

Coil Module	Code Suffix
110–120 Vac	A0
200–277 Vac	НО
24 Vac	ТО
12-24 Vdc	T1

### Notes

 $^{\odot}\;$  To change the base coil voltage, replace the content of Position 9 with the appropriate code suffix from the table above.

<sup>(2)</sup> To change auxiliary contact options, replace the content of Position 10 with the appropriate code suffix from the table above.

To change the control module voltage, replace the content of Positions 12-13 with the appropriate code suffix from the table above.

 $\circledast\;$  If coil supply is greater than 277V, use CPT.

Open Control

### Components

### **Electrically Held Base Contactor**

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 into a mechanically held contactor in the field.

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Electrically Held Base Contactor

Power Poles	Catalog Number 🗅
2N0	C30CNE20_0

### **Electrically Held Lighting Contactors** <sup>(2)</sup>

Number of Poles	NO	NC	Catalog Number
2	2	0	C30CNE20_0
	1	1	C30CNE11_0
	0	2	C30CNE02_0
4	4	0	C30CNE40_0
	2	2	C30CNE22_0
	0	4	C30CNE04_0
6	6	0	C30CNE60_0
8	8	0	C30CNE80_0
	4	4	C30CNE44_0
	0	8	C30CNE08_0

### **Coil Base Voltage (Digit 8)**

Voltage (Digit 8)	Code Suffix
115–120V 60 Hz/110V 50 Hz	Α
230–240V 60 Hz/220V 50 Hz	В
460-480V 60 Hz/440V 50 Hz	C
575–600V 60 Hz/550V 50 Hz	D
200–208V 60 Hz	E
265–277V 60 Hz/240V 50 Hz	Н
24V 60 Hz/20V 50 Hz	Т
28V 60 Hz/24V 50 Hz	v
347V 60 Hz	X

### **Power Poles**

The C30CNM contactor accepts up to a maximum six single- or two-pole (or combinations) power poles. These can be used to form up to:

- 12 NO poles maximum when six two-poles are used in NO positions (1–6) or
- 8 NC poles maximum with four two-poles in the NC position (1–4) and 4 NO poles with two two-poles in the 2 NO positions (5–6)

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	121	Power Poles	Catalog Number
	-	Single-pole	C320PRP1
<u>a</u>	-	Two-pole	C320PRP2
÷	1		

### Mechanically Held Module Kits

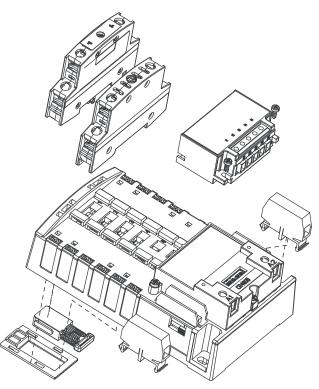
These kits are for converting electrically held contactors to mechanically held units. Kits include control module, latch, latch cover and auxiliary contacts plus installation instructions. Conversion kits are suitable for coil voltages of 277V and below.



Mechanica	ally Held Modul	e Kits
Coil Volte	Control Volte	Catalon Number

Coil Volts	Control Volts	Catalog Numbe
Two-Wire		
24–277 Vac	110-120 Vac	C320MH2WA0
	200–277 Vac	C320MH2WH0
	24 Vac	C320MH2WT0
	12-24 Vdc	C320MH2WT1
Three-Wire		
24—277 Vac	110-120 Vac	C320MH3WA0
	200–277 Vac	C320MH3WH0
	24 Vac	C320MH3WT0
-	12-24 Vdc	C320MH3WT1

### C30CNM Components-Exploded View



### Notes

- <sup>①</sup> When ordering, select required contactor by catalog number and replace the magnet coil alpha designation in the catalog number (\_) with the proper code suffix from the Coil Base Voltage table on this page.
- ② A number of other power pole configurations are also available using the single-pole and two-pole power poles. Electrically held units can be purchased with up to 12-pole configurations with a maximum of 8NO and 4NC power poles.

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**Lighting Contactors** 

### **Auxiliary Contacts**

A mechanically held contactor with a two-wire control module uses 1NC auxiliary contact as standard for the control wiring circuit. The mechanically held contactor with a three-wire control module uses 1NO-1NC auxiliary contacts as standard for the control wiring circuit. See table below for possible additional auxiliary contact configurations.

Auxiliary Contacts	Auxiliary Contacts
•	

and the second	Auxiliary Block	Catalog Number
	Single-pole	C320AMH1
	Two-pole	C320AMH2

### **Auxiliary Contact Configurations**

Two-Wire	Three-Wire
None	1NC (two-pole)
1NO (single-pole)	1NO (two-pole)
2NO (two-pole)	1NO-1NC (two-pole)
1NC (two-pole)	_
1NO-1NC (NO single-pole, NC two-pole)	_
2NO-1NC (two-pole)	_

### **Replacement Parts**

**Magnetic Coils** 

### **Magnet Coils for Base Contactors**

Coil Voltage Catalog Numbe	
115–120V 60 Hz/110V 50 Hz	9-3242-1
230–240V 60 Hz/220V 50 Hz	9-3242-2
460-480V 60 Hz/440V 50 Hz	9-3242-3
575–600V 60 Hz/550V 50 Hz	9-3242-4
200–208V 60 Hz	9-3242-5
265–277V 60 Hz/240V 50 Hz	9-3242-6
24V 60 Hz/20V 50 Hz	9-3242-7
28V 60 Hz/24V 50 Hz	9-3242-8
347V 60 Hz	9-3242-9

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Open Control

### **Technical Data and Specifications**

### Main Power Poles

### **Maximum AC Voltage and Ampere Ratings**

		Poles	
Load Type	Amps Continuous	Single-Phase	Three-Phase
Ballast	30	347 Vac	600 Vac
General use	30	600 Vac	600 Vac
Tungsten	20	277 Vac	480 Vac
AC resistive	30	600 Vac	600 Vac

### **Maximum Horsepower Rating**

### Normal Starting Duty

Normal Galling Daly	
Volts	Horsepower
Single-Pole, Single-Phase	
110-120V	1
220–240V	2
Three-Pole, Three-Phase	
200–208V	3
220–240V	5
440480V	10
550-600V	15

### Auxiliary Contacts Rating

A600, 24 Vdc, 24 Vac

### Ambient Temperature

–13 to 104°F (–25 to 40°C)

### Mounting Position

Vertical 3-point mounting only

#### Wire Size

### **Wire Specifications**

Component	Number of Cables	Wire Range (Solid or Stranded)	Wire Temperature
Power poles	1	14–8 AWG	75°C Cu
	2	14-8 AWG ①	75°C Cu
Coil	1 or 2	18–14 AWG	60°/75°C Cu
Control module	1	22–12 AWG	60°/75°C Cu
Auxiliary contacts	1 or 2	22–12 AWG	60°/75°C Cu

### Note

① 8 AWG stranded only.

### **Control Circuit Characteristics**

### Coil

Description	VA
Inrush	248 VA
Sealed	28 VA

### **Control Module**

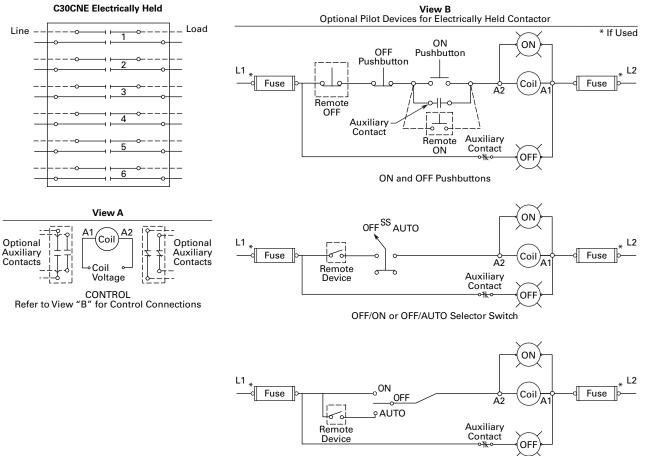
Input Voltage	Steady State Current at Rated Voltage (mA)	Maximum VA
12–24 Vdc	42	2
24 Vac	80	5
115–120 Vac	83	12
200–277 Vac	91	30

### **Other Control Module Characteristics**

Specification
250 ms
1.8 mA
35 V/m
6 kV
40–70 Hz

### **Wiring Diagrams**

C30CNE





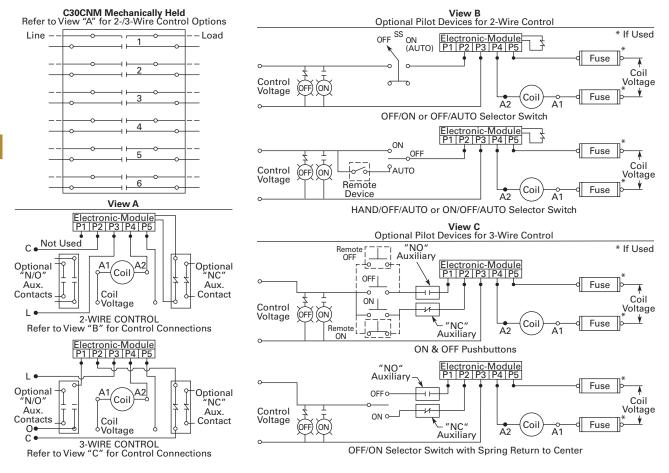
# 6.1

# Lighting Contactors

**Open Control** 

### C30CNM

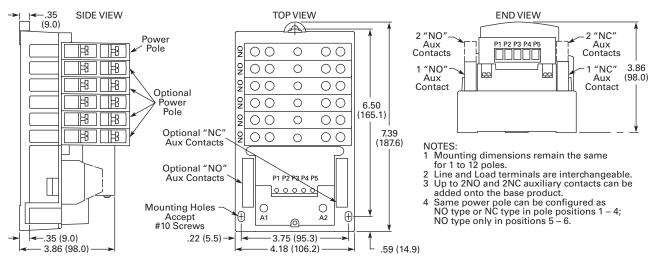
6



### Dimensions

Approximate Dimensions in Inches (mm)

### C30CN



# 6.1

### **Lighting Contactors**

**Open Control** 

### **CN35 Electrically Held**



### Contents

Description	Page
C30CN Mechanically and Electrically Held	V5-T6-3
CN35 Electrically Held	
Product Selection	V5-T6-17
Accessories	V5-T6-18
Renewal Parts	V5-T6-20
Dimensions	V5-T6-21
A202 Magnetically Latched	V5-T6-23

6

### CN35 Electrically Held

### **Product Description**

Type CN35 Electrically Held Lighting Contactors from Eaton's Electrical Sector are designed to handle the switching of tungsten (incandescent) or ballast (fluorescent and mercury arc) lamp loads as well as other non-motor (resistive) loads.

### Application Description

- Ideal applications include industrial plants, stadiums, parks and any new construction requiring lighting control
- Ballast lamps equate to fluorescent, mercury vapor, sodium vapor and quartz loads and will operate at a maximum of 600V
- Filament lamps equate to incandescent, infrared, sodium iodine and heating loads and will operate at a maximum of 480V
- Resistance heating equates to radiant and convection heating, furnace and oven loads

### Features

- Designed and tested specifically for lighting and resistive loads
- · Easy to install and maintain
- Full line of Freedom snap-
- on accessories
  Standard with 1NO auxiliary contact (the 10A two- and three-pole ship standard with the auxiliary in the fourth power pole position with no increase in width)
- Top and side mounted auxiliary contacts available for 10–60A devices; side mounted auxiliaries only available on 100A and greater
- Straight-through wiring

### **Standards and Certifications**

- UL File No. E37317, Guide LR353
- CSA File No. LR353
- Designed and built to NEMA ICS-2 Standards



### Instructional Leaflets

19225	CN35AN (2-, 3-, 4-Pole)
19227	CN35BN (2-, 3-Pole)
24829	CN35BN (4-, 5-Pole)
24840	CN35BN (6-, 9-, 12-Pole)
19227	CN35DN (2-, 3-Pole)
19229	CN35GN (2-, 3-Pole)
19874	CN35GN (4-, 5-Pole)
20218	CN35KN (2-, 3-Pole)
20171	CN35NN (2-, 3-Pole)
20172	CN35SN (2-, 3-Pole)
20172	CN35TN (2-, 3-Pole)

### **Product Selection**

### When Ordering Specify

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

CN35GN5A

Maximum Ampere Rating $^{ m 1}$	Number of Poles	Open Type Catalog Number <sup>3</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
	12	CN35BN12_B
30	2	CN35DN2_B
	3	CN35DN3_B
	4	CN35DN4_B
	5	CN35DN5_B
	6	CN35DN6_B
	9	CN35DN9_B
	12	CN35DN12_B
60	2	CN35GN2_B
	3	CN35GN3_B
	4 2	CN35GN4_B
	5 @	CN35GN5_B
100	2	CN35KN2_
	3	CN35KN3_
200	2	CN35NN2_
	3	CN35NN3_
300	2	CN35SN2_
	3	CN35SN3_
400 ④	2	CN35TN2

### **Magnet Coil Selection**

Magnet con Selection	
Coil Voltage and Hertz ®	Code Suffix
120/60 or 110/50	A
240/60 or 220/50	В
480/60 or 440/50	C
600/60 or 550/50	D
208/60	E
277/60	Н
208–240/60 ®	J
240/50	К
380-415/60	L
550/50	N
24/60, 24/50 ⑦	т
24/50	U
32/50	V
48/60	w
48/50	Y

### Notes

① 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.

2 Additional power poles mounted on side(s) of contactor.

③ Underscore (\_) indicates missing code letter for magnet coil—see Magnet Coil Selection table.

④ UL ballast and resistive ratings only.

<sup>(6)</sup> For **DC Magnet Coils**, see NEMA Contactors and Starters, Tab 2 in this volume.

<sup>(6)</sup> For 10, 20 and 30A sizes only. Sizes 60–400A are 24V/60 Hz only.

For 10, 20 and 30A sizes only.

**Open Control** 

### Accessories

6

C320TS2

### Transient Suppressor Kits

### 10-60A Contactors

These kits limit high voltage transients produced in the control circuit when power is removed from the contactor or starter coil. There are three separate suppressors for use

on 24-120V, 240V or 480V coils respectively.

These devices mount directly to the coil terminals of lighting contactors 10-60A.

### Kits for 10-60A

	Description	Coil Voltage	Catalog Number	
SER. A1 50/60 HZ	Transient suppressor	24-120V	C320TS1	
MADE IN U.S.A.		240V	C320TS2	
		480V	C320TS3	

### **Auxiliary Contacts**

**CN35 Lighting Contactors** include a 1NO maintaining auxiliary contact mounted on right hand side (on 10A. two- and three-pole devices, auxiliary contact occupies 4th power pole positionno increase in width). The 10-60A devices will accept additional auxiliary contacts on the top and/or sides.

Auxiliary contact blocks are designed for snap-on installation-fast, easy installation (no tools required contacts are of the bifurcated design with parallel circuit paths. This redundant path provides very high reliability. Auxiliary contacts can be snapped on the side (up to two circuits—per auxiliary contact) and on the top (up to four circuits). Auxiliary contacts for larger contactors, 100-400A sizes, will accept side mounted auxiliaries only and easily attach to the side of the contactor with two screws.

### Auxiliary Contacts – 10–60A Contactors

### 100–300A Contactors

This device mounts on top of any side mounted auxiliary contact on lighting contactors 100–300A. It connects across coil terminals on any 120V contactor magnet coil.

Limits high voltage transients produced in the circuit when power is removed from the coil.



C320AS1

### Kits for 100-300A

	Coil Voltage	Catalog Number
essor	120V	C320AS1



Top Mounted



2NC	02	C320KGS5
Top Mounte	d 2	
1N0	10	C320KGT1
1NC	01	C320KGT2
1NO-1NC	11	C320KGT3
2N0	20	C320KGT4
2NC	02	C320KGT5
3N0	30	C320KGT9
2NO-1NC	21	C320KGT10
1NO-2NC	12	C320KGT11
3NC	03	C320KGT12
4N0	40	C320KGT13
3NO-1NC	31	C320KGT14
2NO-2NC	22	C320KGT15
1NO-3NC	13	C320KGT16
4NC	04	C320KGT17

### Notes

① For reference only—not part of catalog number. See Page V5-T6-19.

<sup>(2)</sup> Cannot be added to contactors or starters mounted in Box 1 (NEMA Type 1).

up to 60A). All auxiliary

#### Contract 0-4-1----

Description	Contact Configuration Code 1	Catalog Number
Side Mounte	d	
1N0	10	C320KGS1
1NC	01	C320KGS2
1NO-1NC	11	C320KGS3
2N0	20	C320KGS4
2NC	02	C320KGS5
Top Mounted	2	
1N0	10	C320KGT1

### **Open Control**

### Auxiliary Contacts – 100–400A Contactors

	Аихіна	iny contacts-	- 100-400A	Contactors
	Circuit	Contact Configuration Code ①	100A Contactors Catalog Number	200 and 300A Contactors Catalog Number
Base Auxiliary Contact—C320KGS42	Base Au	xiliary Contacts		
Contact—C320KG342	NO	10	C320KGS31	C320KGS41
	NO-NC	11	C320KG\$32	C320KGS42

Auxiliary Contact—	Auxiliary	Contacts	
C320KGS22	NO	10	C320KGS20
	NC	01	C320KGS21
	NO-NC 2	11	C320KGS22

### **Auxiliary Contact Ratings (Amperes)**

AC Volts 120V	: 240V	480V	600V
60.0	30.0	15.0	12.0
6.0	3.0	1.5	1.0
10.0	10.0	10.0	10.0
	60.0 6.0	60.0         30.0           6.0         3.0	120V         240V         480V           60.0         30.0         15.0           6.0         3.0         1.5

DC Volts	Make/Break Amperes		
125	1.10		
250	0.55		

### **Contact Configuration Code**

This 2-digit code is found on the auxiliary contact to assist in identifying the specific contact configuration. The first digit indicates the quantity of NO contacts and the second indicates the quantity of NC contacts.

### **Auxiliary Contact Location**

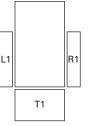
### Auxiliary Contacts—Mounting Positions

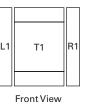
The sketches below illustrate the maximum number of auxiliary contacts that can be assembled to a contactor and their locations in standard enclosures.

### **Auxiliary Contact Mounting Positions**

	Available Mounting Positions 3(4)5			
Size	Poles	Open Type	NEMA 1	NEMA 3R, 4X, 12
10A	2–4	T1, L1, R1	L1	L1, T1
20-60A	2–3	T1, L1	L1	L1, T1
60A	4	T1, L1		L1, T1
60A	5	T1, L1	_	L1, T1
100A	2–3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3
200A	2–3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3
300A	2–3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3
400A	2–3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3	R2, R3, L1, L2, L3

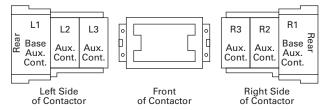
### **10–60A Contactors**





Top View

### 100–400A Contactors



#### Notes

- ① For reference only—not part of catalog number.
- <sup>(2)</sup> NO-NC occupies two positions—L2 and L3 or R2 and R3.
- <sup>③</sup> Available positions on contactors or starters other than what is factory installed.
- ( When a pneumatic timer is mounted on contactor, only side mounted auxiliary contact positions are available. The solid-state timer, when added, takes up side mounted auxiliary contact position.
- $^{\textcircled{6}}$  For 100–400A contactors, a base auxiliary contact must be added in position L1 before additional contacts can be mounted.

### Pneumatic Timers—Top Mounted

Attachment mounts on top of 10–60A lighting contactors (top mounted auxiliary contacts can not be installed on device when timer is used). Timer unit has DPST timed contacts—circuits in each pole must be the same polarity. Units are convertible from OFF to ON delay or vice-versa.



### Pneumatic Timers

0.1 to 30 seconds 10 to 180 seconds



6

### Timing Range

Catalog Number	
C320TP1	Mounted Timer
C320TP2	

### Solid-State Timers

### Solid-State ON DELAY Timer—Side Mounted on CN35 Freedom Series Lighting Contactors through 60A This timer is designed to be wired in SERIES with the load

(typically a coil). When the START button is pushed (power applied to timer), the ON DELAY timing function starts. At the completion of the set timing period, timer and series wired load will both be energized.

Mounted Timer

Timing Range	Catalog Number 123
0.1–1.0 seconds	C320TDN1_
1–30 seconds	C320TDN30_
30–300 seconds	C320TDN300_
5–30 minutes	C320TDN3000_

### **Maximum Ampere Ratings**

	Volts AC				
Description	120	240	480	600	
Make	30.0	15.0	7.5	6.0	
Break	3.0	1.5	0.75	0.6	

### **Renewal Parts**

### **CN35 Lighting Contactors**

Description		10A Series C1 Part No.	20A, 30A Series C1 Part No.	60A Series B1 Part No.	100A Part No.	200A Part No.	300A Series B1 Part No.
Contact Kits							
Two-pole		(4)	<b>(4</b> )	6-65-7	6-43-5	6-44	6-45
Three-pole		(4)	(4)	6-65-8	6-43-6	6-44-2	6-45-2
Four-pole		(4)	(4)	6-65-15	_	_	_
Five-pole		(4)	(4)	6-65-16	_	_	_
Magnet Coils	Coil S	uffix					
120V 60 Hz or 110V 50 Hz	А	9-2875-1	9-2876-1	9-2703-1	9-2756-1	9-1891-1	9-1891-1
240V 60 Hz or 220V 50 Hz	В	9-2875-2	9-2876-2	9-2703-2	9-2756-2	9-1891-2	9-1891-2
480V 60 Hz or 440V 50 Hz	C	9-2875-3	9-2876-3	9-2703-3	9-2756-3	9-1891-3	9-1891-3
600V 60 Hz or 550V 50 Hz	D	9-2875-4	9-2876-4	9-2703-4	9-2756-4	9-1891-4	9-1891-4
208V 60 Hz	E	9-2875-5	9-2876-5	9-2703-9	9-2756-5	9-1891-13	9-1891-13
277V 60 Hz	Н	9-2875-12	9-2876-12	9-2703-7	9-2756-9	9-1891-26	9-1891-26
208/240V 60Hz	J	9-2875-37	9-2876-37	_	_	_	_
240V 50 Hz	К	9-2875-11	9-2876-11	9-2703-14	9-2756-13	9-1891-20	9-1891-20
380–415V 50 Hz	L	9-2875-6	9-2876-6	9-2703-8	_	_	_
380V 50 Hz	L	_	_	_	9-2756-12	9-1891-14	9-1891-14
415V 50 Hz	м	_	_	_	9-2756-8	9-1891-21	9-1891-21
550V 50 Hz	N	_	_	_	9-2756-14	9-1891-8	9-1891-8
24V 60 Hz–24V 50 Hz	т	9-2875-36	9-2876-36	_	_	_	_
24V 60 Hz	т	_	_	9-2703-6	9-2756-6	9-1891-15	9-1891-15
24V 50 Hz	U	9-2875-36	9-2876-13	9-2703-12	9-2756-11	9-1891-16	9-1891-16
32V 50 Hz	v	9-2875-16	9-2876-16	9-2703-10	9-2756-10	_	_
48V 60 Hz	w	9-2875-8	9-2876-8	9-2703-11	9-2756-15	—	_
48V 50 Hz	Y	9-2875-9	9-2876-9	9-2703-13	9-2756-7	9-1891-18	9-1891-18

### Notes

O Add operating voltage suffix to catalog number. A = 120V, B = 240V, E = 208V

<sup>③</sup> Terminal connections are quick connects only. Two per side.

<sup>(2)</sup> Rated 0.5A pilot duty—not to be used on larger contactors.

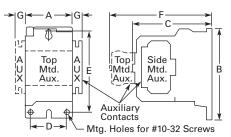
④ Replace with complete contactor.

Timer

### Dimensions

Approximate Dimensions in Inches (mm)

Open Type—10A, Two- to Four-Pole; 20–30A, Two- to Three-Pole



### Open Type-20-30A, Nine- to 12-Pole

C Л Top Mtd. Aux. Top Mtd. Top Mtd. Aux. Top Mtd. A U X Top Mtd. Side Mtd. Ġ Е Aux. Aux. Aux. Aux. Ы Auxiliary Contacts ¢ D Mtg. Holes for (4) #10-32 Screws

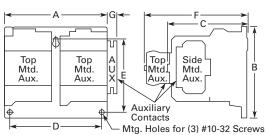
### **Dimensions and Shipping Weights**

Ampere Rating	Number of Poles	Wide A	High B	Deep C	Mounting D 1	E	F	G	Shipping Weight Lbs (kg)
Open Typ	e								
10	2–4	2.00 (50.8)	3.88 (98.6)	3.49 (88.6)	1.50 (38.1)	3.38 (85.9)	4.90 (124.5)	0.54 (13.7)	1.4 (0.6)
20–30	2–3	2.00 (50.8)	3.88 (98.6)	3.49 (88.6)	1.50 (38.1)	3.38 (85.9)	4.90 (124.5)	0.54 (13.7)	1.5 (0.7)
20–30	4—6	4.20 (106.7)	4.35 (110.5)	3.52 (89.4)	3.50 (88.9)	3.86 (98.0)	4.90 (124.5)	0.54 (13.7)	2.9 (1.3)
20–30	9	10.50 (266.7)	5.75 (146.1)	4.52 (114.8)	4.50 (114.3)	5.00 (127.0)		_	4.4 (2.0)
20–30	12	10.50 (266.7)	5.75 (146.1)	4.52 (114.8)	4.50 (114.3)	5.00 (127.0)	_	_	5.8 (2.6)
60	2–3	2.56 (65.0)	5.05 (128.3)	4.44 (112.8)	2.00 (50.8)	4.50 (114.3)	5.80 (147.3)	0.54 (13.7)	3.5 (1.6)
60	4	3.46 (87.9)	5.05 (128.3)	4.44 (112.8)	2.00 (50.8)	4.50 (114.3)	5.80 (147.3)	0.54 (13.7)	3.5 (1.6)
60	5	4.36 (110.7)	5.05 (128.3)	4.44 (112.8)	2.00 (50.8)	4.50 (114.3)	5.80 (147.3)	0.54 (13.7)	3.5 (1.6)
100	2–3	3.54 (89.9)	7.17 (182.1)	5.94 (150.9)	3.00 (76.2)	6.63 (168.4)	_	0.54 (13.7)	9.0 (4.1)
200	2–3	7.05 (179.1)	9.11 (231.4)	7.25 (184.2)	6.00 (152.4)	8.50 (215.9)		—	20.0 (9.1)
300	2–3	7.05 (179.1)	13.12 (333.2)	7.78 (197.6)	6.00 (152.4)	12.50 (317.5)	—	_	23.0 (10.4)

### Note

① Center mounting slot at bottom on 10–30A sizes only.

Open Type-20-30A, Four- to Six-Pole



**Lighting Contactors** 

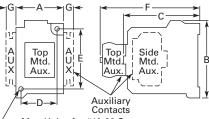
**Open Control** 

6

Open Control

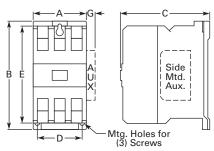
### Approximate Dimensions in Inches (mm)

### 60A, Two- to Three-Pole

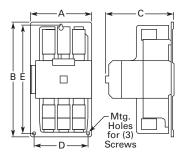


Mtg. Holes for #10-32 Screws

100A, Two- to Three-Pole



200–300A, Two- to Three-Pole



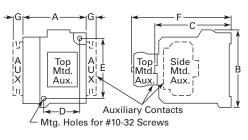
### **Dimensions and Shipping Weights**

#### Mounting Number Wide Deep **Shipping Weight** Ampere High F G of Poles в С **D** 1 Ε Lbs (kg) Rating А Open Type 10 2–4 2.00 (50.8) 3.88 (98.6) 3.49 (88.6) 1.50 (38.1) 3.38 (85.9) 4.90 (124.5) 0.54 (13.7) 1.4 (0.6) 20-30 2–3 2.00 (50.8) 3.88 (98.6) 3.49 (88.6) 1.50 (38.1) 3.38 (85.9) 4.90 (124.5) 0.54 (13.7) 1.5 (0.7) 20-30 4–6 4.20 (106.7) 4.35 (110.5) 3.52 (89.4) 3.50 (88.9) 3.86 (98.0) 4.90 (124.5) 0.54 (13.7) 2.9 (1.3) 20-30 4.4 (2.0) 9 10.50 (266.7) 5.75 (146.1) 4.52 (114.8) 4.50 (114.3) 5.00 (127.0) 20-30 12 10.50 (266.7) 5.75 (146.1) 4.52 (114.8) 4.50 (114.3) 5.00 (127.0) 5.8 (2.6) 60 2–3 2.56 (65.0) 5.05 (128.3) 4.44 (112.8) 2.00 (50.8) 4.50 (114.3) 5.80 (147.3) 0.54 (13.7) 3.5 (1.6) 60 4.44 (112.8) 4.50 (114.3) 5.80 (147.3) 3.5 (1.6) 4 3.46 (87.9) 5.05 (128.3) 2.00 (50.8) 0.54 (13.7) 60 5 4.36 (110.7) 5.05 (128.3) 4.44 (112.8) 2.00 (50.8) 4.50 (114.3) 5.80 (147.3) 0.54 (13.7) 3.5 (1.6) 100 2–3 3.54 (89.9) 7.17 (182.1) 5.94 (150.9) 3.00 (76.2) 6.63 (168.4) 0.54 (13.7) 9.0 (4.1) 200 2–3 9.11 (231.4) 7.25 (184.2) 6.00 (152.4) 8.50 (215.9) 20.0 (9.1) 7.05 (179.1) \_\_\_\_ \_ 300 2–3 7.05 (179.1) 13.12 (333.2) 7.78 (197.6) 6.00 (152.4) 12.50 (317.5) \_\_\_\_ 23.0 (10.4) \_

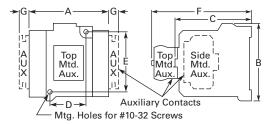
### Note

① Center mounting slot at bottom on 10-30A sizes only.

### 60A, Four-Pole



### 60A, Five-Pole



C30CN Mechanically and Electrically Held .....

CN35 Electrically Held .....

Product Selection .....

Accessories

Renewal Parts .....

Technical Data and Specifications . . . . . . . .

Wiring Diagrams .....

Open Control

### 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

### Features

Contents

Description

A202 Magnetically Latched

- 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

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V5-T6-24

V5-T6-25

V5-T6-26

V5-T6-26

V5-T6-27

### **Product Selection**

### When Ordering Specify

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

### A202K\_

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Latched AC Li	ghting	Contactors 12	
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Continuous Amperes (Enclosed)	Number of Poles	Open Type Catalog Number <sup>(3</sup>
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	Α	
208V, 60 Hz	В	
277V, 60 Hz	Z	
440V/50, 480V/60	X	
600V, 60 Hz	E	
120V/60, 110V/50	Α	
220V/50, 240V/60	W	
24V, 60 Hz		

### 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.

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

### **Renewal Parts**

### AC Coil, A202—Magnetically Latched

### 30A

Voltage	Hz	Two-, Three-, Four-Pole Part Number	Five-Pole Part Number
110/120	50/60	7874A93G01	7874A89G01
208/240	50/60	7874A93G02	7874A89G02
277	50/60	7874A93G03	7874A89G03
440/480	50/60	7874A93G04	7874A89G04
575	50/60	7874A93G05	7874A89G05

### 60A

Voltage	Hz	Two-, Three-Pole Part Number	Four-, Five-Pole Part Number
110/120	50/60	7874A93G01	7874A87G01
208/240	50/60	7874A93G02	7874A87G02
277	50/60	7874A93G03	7874A87G03
440/480	50/60	7874A93G04	7874A87G04
575	50/60	7874A93G05	7874A87G05

### 100 and 200A

Voltage	Hz	Two-, Three-Pole Part Number	Four-, Five-Pole Part Number
110/120	50/60	7874A85G01	7874A83G01
208/240	50/60	7874A85G02	7874A83G02
277	50/60	7874A85G03	7874A83G03
440/480	50/60	7874A85G04	7874A83G04
550/575	50/60	7874A85G05	7874A83G05

### Terminals (Line and Load)

**Lighting Contactors** 

**Open Control** 

Two-Pole	Three-Pole	Four-Pole	Five-Pole
Part Number	Part Number	Part Number	Part Number
30A			
N/A	N/A	N/A	N/A
60A			
179C755G17	179C755G16	179C755G17 1	179C755G16
			179C755G17 2
100A			
179C755G19	179C755G18	179C755G19 1	179C755G18
			179C755G19 2
200A Model K	Electrically Held		
179C755G28	179C755G27	179C755G28 1	179C755G27
			179C755G28 2
200A Model J	Magnetically Lat	ched	
179C755G31	179C755G30	179C755G31 1	179C755G30
			179C755G31 @

### **Other Accessories**

Description	Size	Part Number
Control module (rectifier)	30–200A	3915B98G01
1NO, 1NC CC auxiliary contact <sup>③</sup>	30–200A	J1C

Arc boxes, upper base assemblies and cross bars are equivalent to the A201 Series. See Tab 2, section 2.1 in this volume.

Contact kits are equivalent to the A201 Model J series, with the exception of the magnetically latched 200A unit. It uses Catalog Number 672B788G07 for the three-pole device. For other poles, consult factory.

### Notes

① Order quantity of two for four-pole design.

② Group members for the five-pole terminal represent the combination of the two- and three-pole number.

③ CC is coil clearing.

Open Control

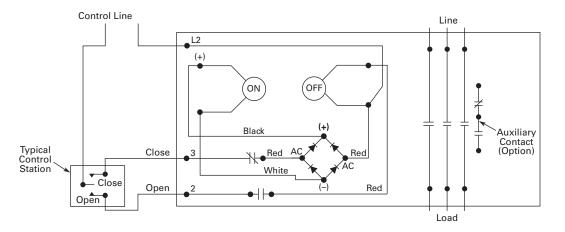
### **Technical Data and Specifications**

### A202 Contactors

Specification		
Cu/Al		
Cu only		
600 AC, breaking all lines		
480 Vac		
277 Vac		
	Cu/Al Cu only 600 AC, breaking all lines 480 Vac	

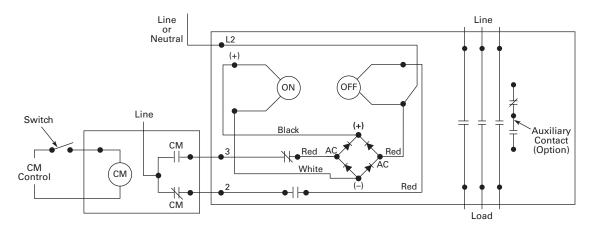
### **Standard Wiring**

The standard wiring of an A202 contactor can be controlled by a separate <u>customer supplied</u> single-pole double-throw controlling station.



### **Two-Wire Control**

Two-wire control can be accomplished with a <u>customer supplied</u> relay with 1NO/1NC auxiliary contacts, wire as shown.



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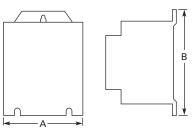
**Lighting Contactors** 

Open Control

### Dimensions

Approximate Dimensions in Inches (mm)

### **Open Type**



### Non-Combination Open Lighting Contactors— Two- to 12-Pole

Continuous Amperes	Number of Poles	Pole Configuration	Open Type	High B
			Wide A	
30	2–4	_	3.31 (84.1)	4.38 (111.3)
	5		4.19 (106.4)	4.38 (111.3)
	6	3 x 3	7.13 (181.1)	4.46 (113.3)
	8	4 x 4	7.13 (181.1)	4.46 (113.3)
	10	5 x 5	10.63 (270.0)	4.46 (113.3)
	12	4 x 4 x 4	12.38 (314.5)	6.88 (174.8)
60	2, 3	_	3.31 (84.1)	4.38 (111.3)
	4, 5		4.19 (106.4)	4.38 (111.3)
	6	3 x 3	7.13 (181.1)	4.46 (113.3)
	8	4 x 4	10.63 (270.0)	4.46 (113.3)
	10	5 x 5	10.63 (270.0)	4.46 (113.3)
	12	5 x 5 x 2	15.00 (381.0)	6.88 (174.8)
100	2, 3	_	4.63 (117.6)	6.63 (168.4)
	4, 5		7.25 (184.2)	6.63 (168.4)
	6	3 x 3	9.75 (247.7)	6.88 (174.8)
	8	5 x 3	12.38 (314.5)	6.88 (174.8)
	10	5 x 5	15.00 (381.0)	6.88 (174.8)
	12	5 x 5 x 2	34.13 (866.9)	27.50 (698.5)
200	2, 3	_	4.63 (117.6)	6.63 (168.4)
	4, 5	_	7.25 (184.2)	6.63 (168.4)
	6	3 x 3	9.75 (247.7)	6.88 (174.8)
	8	5 x 3	12.38 (314.5)	6.88 (174.8)
	10	5 x 5	15.00 (381.0)	6.88 (174.8)
	12	5 x 5 x 2	34.13 (866.9)	27.50 (698.5)