

Definite Purpose Contactors for the Construction Market

Compact Contactors – Overview

- **Ideal for HVAC applications**
- Compact, 20-40A, 1- and 2-pole contactors
- Current rated and horsepower/kW rated
- Efficient design, low VA coil and straight-through wiring
- Design effectively limits dust and other contaminants from magnet structure
- UL Recognized, CSA certified, ARI 780/790 Standard, RoHS Complaint, CE marked



Compact 1-Pole



Compact 2-Pole

Compact Contactors – Model Selection

Ampere Ratings ¹		Locked Rotor			Maximum Motor Horsepower		Maximum Motor Kilowatts		Catalog Number ^{2,3}
Inductive Full Load	Resistive	240 - 277V	480V	600V	115V	230V	115V	230V	
<i>Single-Pole</i>									
25	30	150	50	40	2	3	1.5	2.2	C25ANB125_
30	40	150	75	50	2	5	1.5	3.7	C25ANB130_
40	50	240	200	160	3	7-1/2	2.2	5.5	C25ANB140_
<i>Single-Pole with Shunt</i>									
25	30	150	50	40	2	3	1.5	2.2	C25CNB125_
30	40	150	75	50	2	5	1.5	3.7	C25CNB130_
40	50	240	200	160	3	7-1/2	2.2	5.5	C25CNB140_
<i>Double-Pole</i>									
20	30	120	100	80	1-1/2	3	1.1	2.2	C25BNB220_
25	35	150	125	100	2	3	1.5	2.2	C25BNB225_
30	40	150	125	100	2	5	1.5	3.7	C25BNB230_
40	50	240	200	160	3	7-1/2	2.2	5.5	C25BNB240_

¹ Rating per pole.

² Incomplete catalog number. Replace underscore (_) with coil suffix letter from the table below.

³ Bulk pack quantities are available in quantities of 50, contact local sales office.

Magnet Coil – Selection

AC Coil Voltage 50/60 Hz	Coil Suffix
24	T
110 - 120	A
208 - 240	B
277	H
380 - 415 (50 Hz); 440 - 80 (60 Hz)	C

Coil Characteristics

AC Coil Voltage 50/60 Hz	Max. Inrush VA	Max. Sealed VA	Max. Sealed Watts
<i>Single-Pole</i>			
24, 120, 208/240, 277	33	6	2
<i>Two-Pole</i>			
24, 120, 208/240, 277, 480	41	6.5	3

Factory Options

Description
Box lugs with quick connectors for 20-40A contactors:
1-Pole
1-Pole with shunt
2-Pole
<i>To order, replace letter in sixth position of catalog number with letter F (ex. C25BNE240A)</i>

EATON

Powering Business Worldwide

50mm Contactors (15-360A, 2-, 3- and 4-Pole) – Overview

- Ideal for HVAC, motor and non-motor resistive loads
- Contactors are dual-rated with inductive and resistive as well as horsepower and kilowatt ratings
- Also available as starters with bi-metallic and solid-state overload relays
- Open and enclosed versions
- UL Recognized, CSA certified, ARI 780/790 Standard, CE marked, RoHS Complaint (15-50A only)



50mm DP Contactor



NEMA 1 Enclosure

50mm Contactors (Open Type) – Model Selection

Rating in Amperes			Locked Rotor	Max. Motor Horsepower		Max. Motor Kilowatts		Number of Poles	Open Type with Metal Mounting Plate	Open Type with DIN Rail Adapter
Inductive Full Load	Resistive Per Pole	Line Voltage		1-Phase	3-Phase	1-Phase	3-Phase		Catalog Number ^{1,2}	Catalog Number ^{1,2}
15	20	115	90	3/4	–	0.40	–	2	C25DND215_	C25DRD215_
		230	90	2	3	1.5	2.2	3	C25DND315_	C25DRD315_
		460	75	–	5	–	3.7	–	–	–
		575	60	–	5	–	3.7	–	–	–
25	35	115	150	2	–	1.5	–	2	C25DND225_	C25DRD225_
		230	150	3	7-1/2	2.2	5.5	3	C25DND325_	C25DRD325_
		460	125	–	10	–	7.5	–	C25END425_	–
		575	100	–	10	–	7.5	–	–	–
30	40	115	180	2	–	1.5	–	2	C25DND230_	C25DRD230_
		230	180	5	10	3.7	7.5	3	C25DND330_	C25DRD330_
		460	150	–	15	–	11	–	C25END430_	–
		575	120	–	15	–	11	–	–	–
40	50	115	240	3	–	2.2	–	2	C25DNF240_	C25DRF240_
		230	240	7-1/2	10	5.5	7.5	3	C25DNF340_	C25DRF340_
		460	200	–	20	–	15	–	C25ENF440_	–
		575	160	–	20	–	15	–	–	–
50	65	115	300	3	–	2.2	–	2	C25DNJ250_	C25DRJ250_
		230	300	10	15	7.5	11	3	C25DNJ350_	C25DRJ350_
		460	250	–	30	–	22	–	–	–
		575	200	–	30	–	22	–	–	–

60-360 75-360 Additional C25 contactor models are available in higher amperage ratings. For a full model listing, consult the Controls Catalog (CA08102001E), Tab 35.

¹ Incomplete model number, replace underscore (_) in catalog number with magnet coil suffix from table below.

² Carton quantities, including 20 individually packaged units, are available for 2- and 3-pole units through 60A inductive.

Magnet Coil – Selection

Coil Voltage		Coil Suffix	Coil Voltage	Coil Suffix
60 Hertz	50 Hertz			
<i>AC</i> ³				
12 ⁴	12	R	12	1R
24 ⁵	24	T	24	1T
110-120 ⁶	110-120 ⁶	A	48	1W
208 ⁷	–	E	120	1A ¹¹
208-240 ⁸	208-240	B	–	–
240 ⁹	220	J	–	–
277	–	H	–	–
–	380-415	L	–	–
440-480	440-480	C	–	–
550-600	550-600	D	–	–

³ Class H AC coils available as option for 15A to 50A contactor. Add 2 before AC coil suffix letter.

⁴ Available through 75A.

⁵ Available through 120A.

⁶ 104 – 120V 50/60 Hz for 60A, 75A and all 4-pole contactors (25A – 40A).

⁷ Available 120-360A.

⁸ Available 15-90A, others 240V.

⁹ Available through 50A.

¹⁰ Contactors with DC coils (only available up to 75A) include an early break NC auxiliary contact, C320KGD1. See the Controls Catalog (CA08102001E), Tab 35, for more details.

¹¹ Available only for 15-75A contactors and 4-pole contactors.

Auxiliary Contacts (Side Mounted) – Model Selection



Circuit	With Standard Pressure Terminal Plates	With Pressure Plate and Quick Connect Terminals
	Catalog Number	Catalog Number
<i>For 15 to 75A</i>		
1NO	C320KG1	C320KG11
1NC	C320KG2	C320KG12
1NO-1NC	C320KG3	C320KG13
2NO	C320KG4	C320KG14
2NC	C320KG5	C320KG15

For 90A, 120 to 360A

Additional auxiliary contacts available. For a full model listing, see the Control Products & Services Catalog (CA08102001E).

Options & Accessories

Additional factory-installed options (such as binding head screws, pressure plates and box lugs), a full offering of side-mounted auxiliary contacts, and separate NEMA 1 enclosures are available. For information on these options and accessories, see the Control Products & Services Catalog (CA08102001E), Tab 35.

Eaton Corporation
Electrical Group
1000 Cherrington Parkway
Moon Township, PA 15108
United States
877-ETN-CARE (877-386-2273)
Eaton.com

© 2009 Eaton Corporation
All Rights Reserved
Publication No. TD03501001E
April 2009