

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 | | | <i>DC</i> ¹⁰ | |
| 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.

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Publication No. TD03501001E
April 2009