

# Definite purpose (DP) contactors for the construction market



Compact single-pole



Compact two-pole

## Compact contactors

- Ideal for HVAC applications
- Compact, 20–40 A, single- and two-pole contactors
- Current rated and horsepower/kW rated
- Efficient design, low VA coil
- Encapsulated design effectively limits dust and other contaminants from magnet structure
- See Eaton's catalog: Volume 5—Motor Control and Protection CA08102001E, Tab 4, for product-specific certifications and ratings

**Table 1. Compact contactors model selection**

Ampere rating ①					Maximum motor horsepower	Maximum motor kilowatts	Catalog number ②③		
Inductive full load	Resistive	Locked rotor							
		240–277 V	480 V	600 V	115 V	230 V		115 V	230 V
Single-pole									
25	30	150	50	40	2	3		1.5	2.2
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_
Single-pole with shunt									
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_
Double-pole									
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.

**Table 2. 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)	C
440–80 (60 Hz)	

**Table 3. Coil characteristics**

AC coil voltage 50/60 Hz	Maximum inrush VA	Maximum sealed VA	Maximum sealed Watts
<b>Single-pole</b>			
24, 120, 208/240, 277	33	6	2
<b>Two-pole</b>			
24, 120, 208/240, 277, 480	41	6.5	3

**Table 4. Factory options**

Description
Box lugs with quick connectors for 20–40 A contactors:
Single-pole
Single-pole with shunt
Two-pole
To order, replace letter in sixth position of catalog number with letter F (ex, C25BNF240A)

**EATON**

Powering Business Worldwide

## DP standard frame contactors (15–360 A, two-, three-, and four-pole)

- 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
- See Eaton's catalog: Volume 5—Motor Control and Protection CA08102001E, Tab 4, for product-specific certifications and ratings



50 mm DP  
contactor

NEMA® 1  
enclosure

Table 5. DP standard frame contactors (open type) model selection

Ampere rating				Maximum motor horsepower		Maximum 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	Locked rotor	Single-phase	Three-phase	Single-phase	Three-phase		Catalog number ①②	Catalog number ①②
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	4	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	4	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	4	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 ampere ratings. For a full model listing, consult the catalog: Volume 5—Motor Control and Protection CA08102001E, Tab 4.								

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 two- and three-pole units through 60 A inductive.

Table 6. Magnet coil selection

Coil voltage			Coil voltage		
60 Hz	50 Hz	Coil suffix	DC ③	Coil suffix	
AC ①			DC ③		
12 ②	12	R	12	1R	
24 ③	24	T	24	1T	
110–120 ④	110–120 ④	A	48	1W	
208 ⑤	—	E	120	1A ⑥	
208–240 ⑥	208–240	B			
240 ⑦	220	J			
277	—	H			
—	380–415	L			
440–480	440–480	C			
550–600	550–600	D			

① Class H AC coils available as option for 15 A to 50 A contactors. Add 2 before AC coil suffix letter.

② Available through 75 A.

③ Available through 120 A.

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

⑤ Available 120–360 A.

⑥ Available 15–90 A, others 240 V.

⑦ Available through 50 A.

⑧ Contactors with DC coils (only available up to 75 A) include an early break NC auxiliary contact, C320KGD1. See the catalog: Volume 5—Motor Control and Protection CA08102001E, Tab 4.

⑨ Available only for 15–75 A contactors and four-pole contactors.

Eaton  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

© 2020 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. TD03501001E / Z24295  
December 2020

Table 7. Auxiliary contacts (side mounted) model selection

Circuit	With standard pressure terminal plates	With pressure plate and quick connect terminals
	Catalog number	Catalog number
<b>For 15 to 75 A</b>		
1NO	C320KG1	C320KG11
1NC	C320KG2	C320KG12
1NO-1NC	C320KG3	C320KG13
2NO	C320KG4	C320KG14
2NC	C320KG5	C320KG15
<b>For 90 A, 120 to 360 A</b>		
Additional auxiliary contacts available. For a full model listing, see the catalog: Volume 5—Motor Control and Protection CA08102001E, Tab 4.		

## Options and 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 catalog: Volume 5—Motor Control and Protection CA08102001E, Tab 4.