

## Definite Purpose Contactors and Starters



4

**Product Overview**

Eaton offers the most complete line of Definite Purpose (DP) contactors in the industry. Designed for heating, ventilation, air conditioning and refrigeration (HVACR) applications, Eaton's DP contactors are designed to handle the most challenging installations.

**Application Description**

These ampere and horsepower rated devices from Eaton's Electrical Sector are designed for service in applications such as refrigeration, air conditioning and resistance heating and are manufactured to traditional standards for quality and reliability. They are subjected to stringent quality assurance inspections and testing procedures. The life expectancy, both electrical and mechanical, will meet or exceed industry performance requirements for Definite Purpose devices.

If more detailed technical information is required—specifications, ratings, and so on—contact your local Eaton distributor or sales office.

**Contents****Description****Page**

## Contactors

20–40A, Compact Single- and Two-Pole—C25 .....	<b>V5-T4-4</b>
15–360A, Two-, Three- and Four-Pole—C25 ...	<b>V5-T4-8</b>
15–40A, Three-Pole Fuse Block .....	<b>V5-T4-17</b>
15–75A, Reversing and Two-Speed—C65 ....	<b>V5-T4-20</b>

## Starters

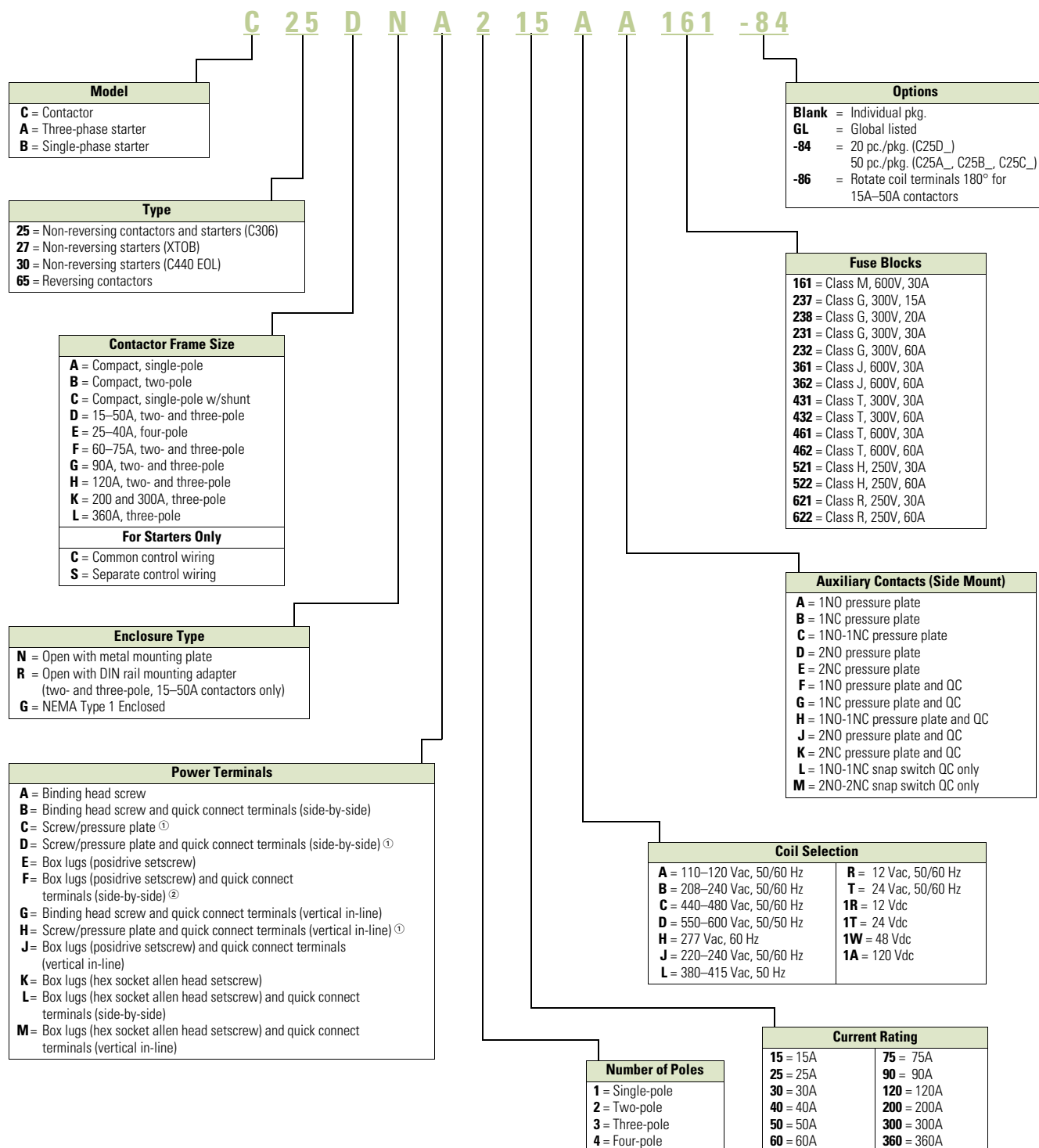
25–60A, Single- and Three-Phase—A25, B25 .....	<b>V5-T4-23</b>
15–45A, Single- and Three-Phase—A27, B27 .....	<b>V5-T4-30</b>
15–75A, Single- and Three-Phase—A30, B30 and C440/XT Electronic Overload Relay ....	<b>V5-T4-38</b>

**Features**

- Completely encased design impervious to dust and other environmental elements
- 15–360A contactor ratings
- Single-, two-, three- and four-pole configurations
- Contactors and starters (up to 60A)
- Open components and enclosed designs

### Catalog Number Selection

#### Definite Purpose Control—Contactors and Starters



#### Notes

- ① Not available on 50A devices.  
 ② Vertical in-line quick connect terminals on 60A and 75A F frame.

**15–60A Contactors—C25**

4

**Contents****Description****Page**

15–60A Contactors—C25

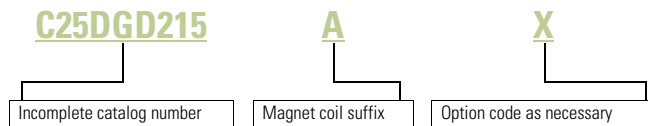
Catalog Number Selection . . . . . **V5-T4-47**Product Selection . . . . . **V5-T4-47**Dimensions . . . . . **V5-T4-48**25–60A Starters—A25, B25 . . . . . **V5-T4-49**15–45A Starters—A27, B27 . . . . . **V5-T4-52**Accessories . . . . . **V5-T4-55**Options . . . . . **V5-T4-57**Technical Data and Specifications . . . . . **V5-T4-58****15–60A Contactors—C25****Product Description**

Eaton offers the Definite Purpose Contactors and Starters in NEMA 1 enclosures. The C25 contactors are available as enclosed. The A25 and B25 Definite Purpose Starters

combine the features and flexibility of the C25 Definite Purpose Contactors and Freedom Series Bimetallic Ambient Compensated Overload Relays mounted on a common mounting plate.

### Catalog Number Selection

#### 15–60A Contactors—C25



#### When Ordering Specify

- Catalog number plus magnet coil suffix, see **Page V5-T4-48**
- Modify catalog number for any options required, see Options, **Page V5-T4-57**

### Product Selection

#### C25 Enclosed



#### Two-, Three- and Four-Pole NEMA Type 1 Enclosed Contactors

Ampere Rating		Line Voltage	Locked Rotor	Maximum Motor (hp)		Maximum Motor (kW)		Number of Poles	NEMA Type 1 Catalog Number ①
Inductive Full Load	Resistive per Pole			Single-Phase	Three-Phase	Single-Phase	Three-Phase		
15	20	115	90	3/4	—	0.40	—	2	C25DGD215_
		230	90	2	3	1.5	2.2	3	C25DGD315_
		460	75	—	5	—	3.7		C25DGD315_
		575	60	—	5	—	3.7		C25DGD315_
25	35	115	150	2	—	1.5	—	2	C25DGD225_
		230	150	3	7-1/2	2.2	5.5	3	C25DGD325_
		460	125	—	10	—	7.5	4	C25EGD425_
		575	100	—	10	—	7.5		C25EGD425_
30	40	115	180	2	—	1.5	—	2	C25DGD230_
		230	180	5	10	3.7	7.5	3	C25DGD330_
		460	150	—	15	—	11	4	C25EGD430_
		575	120	—	15	—	11		C25EGD430_
40	50	115	240	3	—	2.2	—	2	C25DGF240_
		230	240	7-1/2	10	5.5	7.5	3	C25DGF340_
		460	200	—	20	—	15	4	C25EGF440_
		575	160	—	20	—	15		C25EGF440_
50	65	115	300	3	—	2.2	—	2	C25DGJ250_
		230	300	10	15	7.5	11	3	C25DGJ350_
		460	250	—	30	—	22		C25DGJ350_
		575	200	—	30	—	22		C25DGJ350_
60	75	115	360	5	—	3.7	—	2	C25FGF260_
		230	360	10	20	7.5	15	3	C25FGF360_
		460	300	—	40	—	30		C25FGF360_
		575	240	—	40	—	30		C25FGF360_

#### Note

① Incomplete catalog number. Replace underscore ( \_ ) in catalog number with magnet coil suffix from table on **Page V5-T4-48**.

## Magnet Coil Suffix

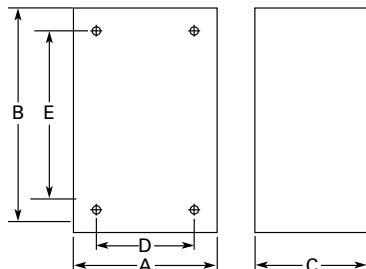
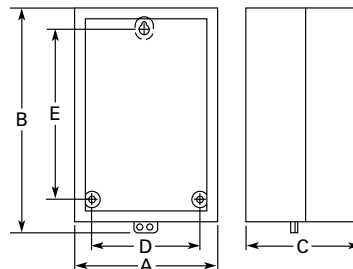
Voltage 60 Hertz	50 Hertz	Coil Suffix	Voltage 60 Hertz	Coil Suffix
<b>AC</b> ①			<b>DC</b> ④	
12	12	<b>R</b>	12	<b>1R</b>
24	24	<b>T</b>	24	<b>1T</b>
110–120 ②	110–120 ②	<b>A</b>	48	<b>1W</b>
208–240	208–240	<b>E</b>	120	<b>1A</b>
240 ③	220	<b>B</b>		
277	—	<b>J</b>		
—	380–415	<b>H</b>		
440–480	440–480	<b>L</b>		
550–600	550–600	<b>C</b>		
12	12	<b>D</b>		

## Dimensions

Approximate Dimensions in Inches (mm)

## C25 Contactors, NEMA 1 Enclosed

## 15–50 Ampere, Two- and Three-Pole (C799B18)

25–40 Ampere, Four-Pole—  
60 Ampere, Two- and Three-Pole (C799B19)

## Dimensions and Shipping Weights

Ampere Size	Number of Poles	Wide A	High B	Deep C	Mounting D	E	Shipping Weight Lbs (kg)
<b>NEMA 1 Enclosed</b>							
15–50	2 and 3	4.10 (104.0)	6.75 (171.0)	3.50 (89.0)	2.75 (70.0)	4.88 (124.0)	3.4 (1.5)
25–40	4	5.62 (142.0)	9.51 (241.0)	4.81 (122.0)	4.50 (114.0)	8.00 (203.0)	5.8 (2.6)
60	2 and 3	5.62 (142.0)	9.51 (241.0)	4.81 (122.0)	4.50 (114.0)	8.00 (203.0)	6.3 (2.9)

## Notes

- ① Class H AC coils available as option. Add **2** before AC coil suffix letter.  
 ② 104–120A 50/60 Hz for 60A contactor.  
 ③ Available through 50A.  
 ④ Contactors with DC coils include an early break NC auxiliary contact, C320KGD1. See **Page V5-T4-62** for more detail.