

## Application Description

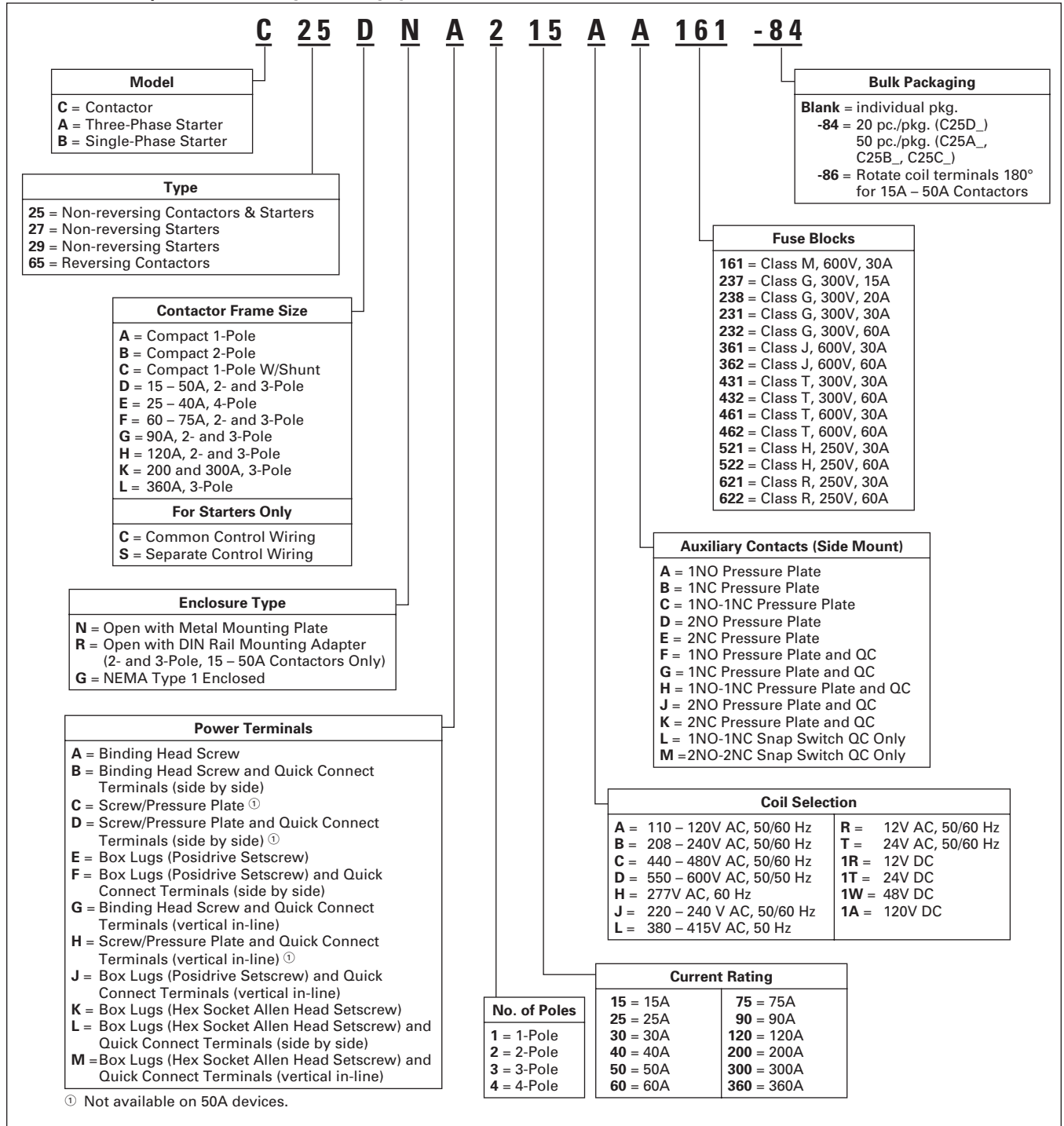
These Cutler-Hammer® ampere and horsepower rated devices from Eaton’s electrical business are designed for service in applications such as Refrigeration, Air Conditioning and Resistance Heating and are manufactured to traditional Cutler-Hammer standards for quality and reliability. They are subjected 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, etc. — contact your local Eaton distributor or sales office.

## Catalog Number Selection

Table 1. Definite Purpose Control Catalog Numbering System



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*Compact 2-Pole*

**Product Description**

Cutler-Hammer® 20 – 40A, single- and double-pole, Type C25 contactors from Eaton’s electrical business feature a compact, efficient design with a low VA coil and straight-through wiring. New contactor housing design effectively limits dust and other contaminants from magnet structure — reduces or eliminates noise. These economically priced, UL recognized/CSA certified, ampere rated devices are well suited for use in heating/air conditioning, refrigeration, data processing and food service applications.

**Standards and Certifications**

- UL Recognized Components: UL File Number E1491, Guides NLDX2 and NLDX8
- CSA Certified Components: CSA C22.2 No. 14-05, File Number 238083 Class 3211 84
- IEC 60947-4-1
- EN 60947-4-1
- ARI 780/790 Standard
- RoHS Compliance



**Technical Data — Specifications**

- Insulation Voltage: 690V
- Current Rated and hp/kW Rated
- Contacts: Double Break
- Magnet Coil: Class F, 155°C
- Contact Arc Covers are standard on all Contactors
- Standard Power Terminals —
  - 5/16" Hex Washer Head Screws
  - Quad (4) Quick Connect Terminals on all Line and Load Terminals
  - Box Lugs available as option
- Contactors are marked with Line and Load Terminal Designations
- Operating Temperature Range: -13 to 158°F (-25 to 70°C)
- Terminal Wire Range —
  - Hex Washer Head Screws: 16 – 10 AWG, 30 lb-in torque rating
  - Box Lugs: 16 – 10 AWG, 35 lb-in torque rating; 8 AWG, 40 lb-in torque rating; 6 – 4 AWG, 45 lb-in torque rating
- Mounting Position: Vertical, Horizontal or Tabletop

**Table 2. Coil Characteristics**

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

**Options**

**Table 3. Compact Options — Factory Installed**

Description	*
<b>Box lugs with quick connects for 20 – 40A contactors:</b> 1-Pole 1-Pole with shunt 2-Pole	
To order replace letter in the 6th position of Catalog Number with letter F. EXAMPLE: C25BNF240A	

Discount Symbol . . . . . **1CD-5C**  
\* Consult Sales Office for Pricing