

# Product Details and Certifications

## Cross Reference RA Part Number: 100-C60N10 B

 Product: **100-C60N10**

Description: Contactor, IEC, 60A, 380-400V 50Hz / 440V 60Hz, Single Pack



Representative Photo Only (actual product may vary based on configuration selections)

### **CONTACTOR DATA**

|                                 |                           |
|---------------------------------|---------------------------|
| Terminal Type                   | Screw Terminals           |
| Rated Operating Current, AC-3   | 60 A                      |
| Coil Voltage                    | 380-400V 50Hz / 440V 60Hz |
| Number of Poles                 | 3 Poles                   |
| Coil Termination                | Line Side                 |
| Auxiliary Contact Configuration | 1 N.O. 0 N.C.             |
| Packaging                       | Single Pack               |

### **APPLICATION DATA**

|                      |    |
|----------------------|----|
| Electrical Standards | UL |
|----------------------|----|

### **LOAD DATA [OPTIONAL]**

|                      |  |
|----------------------|--|
| Utilization Category | AC-3 Squirrel-cage motor starting and stopping |
|----------------------|--|

### **LIFE DATA [OPTIONAL]**

|             |  |
|-------------|--|
| Actual Life | Actual Life Cannot be Calculated (more information)... |
|-------------|--|

### **TERMINAL MARKING POSITIONS USED**

|                                 |      |
|---------------------------------|------|
| 100-C or 104-C Contactor        | 1_   |
| Front Mounted Auxiliary Contact | None |
| Left Side Auxiliary Contact     | None |
| Right Side Auxiliary Contact    | None |
| Interlock                       | None |

### **CERTIFICATIONS AND APPROVALS**






UL  
CSA  
IEC  
CE

### **RECOMMENDED SPARE PARTS**

|       |                                  |
|-------|----------------------------------|
| TE071 | 1 380-400V 50Hz / 440V 60Hz Coil |
|-------|----------------------------------|

Contactors

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|                          |    |   |   |   |    |
|--------------------------|---|--|--|--|---|
| Bulletin                 | 100-K/104-K   | <b>100-C/104-C</b>   | 100Q-C   | 100-D/104-D  | 100-G   |
| Screw Terminals          | ✓   | ✓  | ✓  | Thru-hole<br>Threaded (630...860 A)  | Thru-hole   |
| Spring Terminals         | ✓ (5...9 A)   | ✓ (9...16 A)   | —  | —  | —   |
| Max. Current $I_e$       | 12 A  | 97 A   | 37 A   | 860 A  | 1200 A  |
| Current Rating           | 5...12 A  | 9...97 A   | 16, 32 A   | 115...860 A  | 550...1200 A  |
| Features                 | <ul style="list-style-type: none"> <li>Mini-contactors</li> <li>Uniform panel mounting dimensions</li> <li>Panel mounting or mounting on 35 mm DIN Rail</li> <li>AC or DC coil control</li> <li>Made of environmentally friendly materials</li> </ul> | <ul style="list-style-type: none"> <li>Panel mounting or mounting on 35 mm DIN Rail</li> <li>AC or DC coil control</li> <li>Reversible coil terminals (line or load side)</li> <li>Common accessories</li> <li>Made of environmentally friendly materials</li> </ul> | <ul style="list-style-type: none"> <li>Panel mounting or mounting on 35 mm DIN Rail</li> <li>AC or DC coil control</li> <li>Reversible coil terminals (line or load side)</li> <li>Common accessories</li> <li>Made of environmentally friendly materials</li> </ul> | <ul style="list-style-type: none"> <li>Panel mounting only</li> <li>Made of environmentally friendly materials</li> <li>AC or DC coil control (conventional or electronic)</li> <li>Integrated PLC interface (electronic coil)</li> </ul>  | <ul style="list-style-type: none"> <li>Panel mounting</li> <li>AC or DC coil control</li> <li>Horizontal or vertical interlock</li> <li>Latching</li> <li>4th pole</li> </ul> |
| Contacts                 | 3 power poles with internal N.O. or N.C. auxiliary contact, or 4 power poles.<br>Optional front-mounted 2- or 4-pole external auxiliary contact block.  | 3 power poles with internal N.O. or N.C. auxiliary contact or 4 power poles.<br>Optional front- or side-mounted 1-, 2- or 4-pole external auxiliary contact block.   | 3 main poles with front-mount resistor elements.<br>Optional side-mounted 1-, 2- or 4-pole external auxiliary contact block.   | 3 power poles with external N.O. and N.C. side-mounted auxiliary contact. Optional side-mounted 2-pole external auxiliary contact blocks   | 3 power poles with N.O. and N.C. front-mounted auxiliary contact. Optional 4th pole and auxiliary contacts  |
| Coil Voltages            | AC = 24...600V, 50/60Hz<br>DC = 12...250V   | AC = 12...600V, 50/60Hz<br>DC = 9...250V   | AC = 12...600V, 50/60Hz<br>DC = 12...250V  | <b>Conventional Coils</b><br><b>Cat. Nos. 100-D115...D180</b><br>AC: 24...550V 50 Hz, 24...600V 60Hz, 100...277V 50/60Hz<br>DC: 24...250V DC<br><b>Electronic Coils</b><br><b>Cat. Nos. 100-D115...D300</b><br>AC: 24...500V 50/60 Hz<br>DC: 24...255V DC<br><b>Cat. Nos. 100-D420</b><br>AC: 42...500V 50/60 Hz<br>DC: 48...255V DC<br><b>Cat. Nos. 100-D630...D860</b><br>AC: 100...600V 50/60 Hz<br>DC: 110...255V DC | AC = 110...480V, 50/60Hz<br>DC = 100...440V   |
| Optional Overload Relays | Electronic or bimetallic  | Electronic or bimetallic   | —  | Electronic   | Electronic  |
| Optional Accessories     | <ul style="list-style-type: none"> <li>Front-mount auxiliary contacts</li> <li>Surge suppressors</li> <li>Electronic timers</li> <li>Mechanical interlocks</li> </ul>   | <ul style="list-style-type: none"> <li>Front or side-mount auxiliary contacts</li> <li>Surge suppressors</li> <li>Electronic or pneumatic timers</li> <li>Mechanical interlocks</li> <li>Mechanical latches</li> </ul>   | <ul style="list-style-type: none"> <li>Side-mount auxiliary contacts</li> <li>Surge suppressors</li> <li>Electronic timers</li> </ul>  | <ul style="list-style-type: none"> <li>Side-mount auxiliary contacts</li> <li>Surge suppressors</li> <li>IP20 terminal blocks</li> <li>Terminal shields</li> <li>Terminal covers</li> <li>Connecting components</li> <li>Terminal lugs</li> <li>Mechanical/electrical interlocks</li> </ul>  | <ul style="list-style-type: none"> <li>Auxiliary contact</li> <li>4th pole</li> <li>Vertical interlock</li> <li>Horizontal interlock</li> <li>Mechanical latch</li> </ul>     |
| Standards/Certifications | <ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>IEC</li> <li>CE Marked</li> <li>CCC</li> </ul>  | <ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>IEC</li> <li>CE Marked</li> <li>CCC</li> </ul>   | <ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>IEC</li> <li>CE Marked</li> </ul>  | <ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>IEC</li> <li>CE Marked</li> <li>CCC (115...180 A - conventional coil; 140...420 A - electronic coil)</li> </ul>  | <ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>IEC</li> <li>CE Marked</li> </ul>   |
| Product Selection        | Page 2-124  | Page 2-129   | Page 2-141   | Page 2-147   | Page 2-156  |

## Catalog Explanation

100
-
C
60
N
10
  

**a**
**b**
**c**
**d**
**e**

|          |   |
|----------|---|
| <b>a</b> | <b>Size of Contactor</b>                |
| <b>b</b> | <b>Rated Current (A)</b>                |
| <b>c</b> | <b>Coil voltage and frequency</b>       |
| <b>d</b> | <b>Auxiliary Contacts Configuration</b> |
| <b>e</b> | <b>Miscellaneous options</b>            |

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### ⊗ Coil Voltage Code and Terminal Position

The Cat. No. as listed is incomplete. Select a coil voltage code from the table below to complete the Cat. No. Example: 120V, 60Hz:  
**Cat. No. 100-C09@10** becomes **Cat. No. 100-C09D10**.

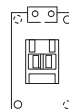
| [M]          | 12 | 24 | 32 | 36 | 42 | 48 | 100 | 100-110 | 110 | 120 | 127 | 200 | 200-220 | 208 | 208-240 | 220-230 | 230 | 230-240 | 240 | 277 | 347 | 380 | 380-400  | 400 | 400-415 | 440      | 480 | 500 | 550 | 600 |
|--------------|----|----|----|----|----|----|-----|---------|-----|-----|-----|-----|---------|-----|---------|---------|-----|---------|-----|-----|-----|-----|----------|-----|---------|----------|-----|-----|-----|-----|
| <b>50 Hz</b> | R  | K  | V  | W  | X  | Y  | KP  | —       | D   | P   | S   | KG  | L       | —   | —       | F       | —   | VA      | T   | —   | —   | —   | <b>N</b> | —   | G       | B        | —   | M   | C   | —   |
| <b>60 Hz</b> | Q  | J  | —  | V  | —  | X  | —   | KP      | —   | D   | —   | —   | KG      | H   | L       | —       | —   | —       | A   | T   | I   | E   | —        | —   | —       | <b>N</b> | —   | —   | —   | C   |
| 50/60 Hz     | —  | KJ | —  | —  | —  | KY | KP  | —       | KD  | —   | —   | KG  | KL‡     | —   | —       | KL‡     | KF  | —       | KA  | —   | —   | —   | —        | KN  | —       | KB       | —   | —   | —   |     |

‡ Not available on 100/104-C90 or -C97 contactors.

| DC Voltages [V] |                                  | 9  | 12 | 24 | 36 | 48 | 48-72 | 60 | 64 | 72 | 80 | 110 | 110-125 | 115 | 125 | 220 | 220-250 | 230 | 250 |
|-----------------|----------------------------------|----|----|----|----|----|-------|----|----|----|----|-----|---------|-----|-----|-----|---------|-----|-----|
| 100-C09...C43   | Standard                         | ZR | ZQ | ZJ | ZW | ZY | —     | ZZ | ZB | ZG | ZE | ZD  | —       | ZP  | ZS  | ZA  | —       | ZF  | ZT  |
|                 | with Integrated Diode            | —  | —  | DJ | —  | —  | —     | —  | —  | —  | —  | —   | —       | —   | —   | —   | —       | —   | —   |
|                 | Electronic with Integrated Diode | —  | EQ | EJ | —  | —  | EY    | —  | —  | —  | —  | —   | ED      | —   | —   | —   | EA      | —   | —   |
| 100-C60...C97   | with Integrated Diode            | DR | DQ | DJ | DW | DY | —     | DZ | DB | DG | DE | DD  | —       | DP  | DS  | DA  | —       | DF  | DT  |

### Coil Terminal Position

- All contactors are delivered with the coil terminals located on the **line side**.
- For **load side** coil terminations, insert a “**U**” prior to the coil voltage code.  
 Ordering example: **Cat. No. 100-C09UD10**.



**Cat. No.**  
**100-C09@10**  
**Line Side**



**Cat. No.**  
**100-C09U@10**  
**Load Side**



**Bulletin 100-C/104-C — IEC Contactors**

- Compact sizes from 4...55 kW/5...75 Hp (9...97 A)
- AC and DC coil control
- Common accessories for all contactor sizes
- Front and side mounting of auxiliary contacts
- Electronic and pneumatic timing modules
- Space-saving coil-mounted control modules
- Reversible coil terminations (line or load side)
- All devices can be attached to 35 mm DIN mounting Rail
- Environmentally friendly materials

The Bulletin 100-C/104-C IEC contactor family, along with a wide range of common accessories and Bulletin 193 solid-state overload relays, provides the most compact and flexible starter component system available.

Your order must include: cat. no. of the contactor specified with coil voltage code and, if required, cat. no. of any accessories and/or replacement coils.

Standards Compliance

Certifications

**Product Selection**  
**3-Pole AC- and DC-Operated Contactors**

| Ie [A]    |            | Ratings for Switching AC Motors — AC-2, AC-3, AC-4 |           |           |           |            |           |           |           |           |           | Aux. Contacts |          | Cat. No.          |
|-----------|------------|--|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|---------------|----------|-------------------|
|           |            | 3-Phase kW (50 Hz)                                 |           |           |           | Hp (60 Hz) |           |           |           |           |           | N.O.          | N.C.     |                   |
| AC-3      | AC-1       | 230V   | 400V/415V | 500V      | 690V      | 1-Phase    |           | 3-Phase   |           |           |           |               |          |                   |
|           |            |  |           |           |           | 115V       | 230V      | 200V      | 230V      | 460V      | 575V      |               |          |                   |
| 9         | 32         | 3  | 4         | 4         | 4         | 1/2        | 1-1/2     | 2         | 2         | 5         | 7-1/2     | 1             | 0        | ‡ 100-C09⊗10      |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | ‡ 100-C09⊗01      |
| 12        | 32         | 4  | 5.5       | 5.5       | 5.5       | 1/2        | 2         | 3         | 3         | 7-1/2     | 10        | 1             | 0        | ‡ 100-C12⊗10      |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | ‡ 100-C12⊗01      |
| 16        | 32         | 5.5  | 7.5       | 7.5       | 7.5       | 1          | 3         | 5         | 5         | 10        | 15        | 1             | 0        | ‡ 100-C16⊗10      |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | ‡ 100-C16⊗01      |
| 23        | 32         | 7.5  | 11        | 13        | 10        | 2          | 3         | 5         | 7-1/2     | 15        | 15        | 1             | 0        | 100-C23⊗10        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C23⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | 100-C30⊗00        |
| 30        | 65         | 10   | 15        | 15        | 15        | 2          | 5         | 7-1/2     | 10        | 20        | 25        | 1             | 0        | 100-C30⊗10        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C30⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | 100-C37⊗00        |
| 37        | 65         | 11   | 18.5/20   | 20        | 18.5      | 3          | 5         | 10        | 10        | 25        | 30        | 1             | 0        | 100-C37⊗10        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C37⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | 100-C43⊗00        |
| 43        | 85         | 13   | 22        | 25        | 22        | 3          | 7-1/2     | 10        | 15        | 30        | 30        | 1             | 0        | 100-C43⊗10        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C43⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | 100-C60⊗00        |
| <b>60</b> | <b>100</b> | <b>18.5</b>  | <b>32</b> | <b>37</b> | <b>32</b> | <b>5</b>   | <b>10</b> | <b>15</b> | <b>20</b> | <b>40</b> | <b>50</b> | <b>1</b>      | <b>0</b> | <b>100-C60⊗10</b> |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C60⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | 100-C72⊗00        |
| 72        | 100        | 22   | 40        | 45        | 40        | 5          | 15        | 20        | 25        | 50        | 60        | 1             | 0        | 100-C72⊗10        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C72⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | 100-C85⊗00        |
| 85        | 100        | 25   | 45        | 55        | 45        | 7-1/2      | 15        | 25        | 30        | 60        | 60        | 1             | 0        | 100-C85⊗10        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | 100-C85⊗01        |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 0        | <b>100-C97⊗00</b> |
| 97        | 130        | 30   | 55        | 55        | 55        | 10         | 15        | 30        | 30        | 75        | 75        | 1             | 0        | <b>100-C97⊗10</b> |
|           |            |  |           |           |           |            |           |           |           |           |           | 0             | 1        | <b>100-C97⊗01</b> |



‡ For screwless terminals, add an "R" after the letter "C" in the catalog number. Example: **Cat. No. 100-C09⊗10** becomes **Cat. No. 100-CR09⊗10**.

⊗ Coil voltage code and terminal position