

## Reversing AC- and DC-Operated Contactors



Cat. No. 104-C09D22



Cat. No. 104-C30ZJ22



Cat. No. 104-C85D22

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| I <sub>e</sub> [A] |      | Ratings for Switching AC Motors — AC-2, AC-3, AC-4 |           |      |      |            |       |         |       |       |       | Auxiliary Contacts<br>Installed per Contactor                                       |                                                                                     | Cat. No.   |
|--------------------|------|----------------------------------------------------|-----------|------|------|------------|-------|---------|-------|-------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|                    |      | 3-Phase kW (50 Hz)                                 |           |      |      | Hp (60 Hz) |       |         |       |       |       |  |  |            |
| 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                                                                                   | 1                                                                                   | 104-C09®22 |
| 12                 | 32   | 4                                                  | 5.5       | 5.5  | 5.5  | 1/2        | 2     | 3       | 3     | 7-1/2 | 10    | 1                                                                                   | 1                                                                                   | 104-C12®22 |
| 16                 | 32   | 5.5                                                | 7.5       | 7.5  | 7.5  | 1          | 3     | 5       | 5     | 10    | 15    | 1                                                                                   | 1                                                                                   | 104-C16®22 |
| 23                 | 32   | 7.5                                                | 11        | 13   | 10   | 2          | 3     | 5       | 7-1/2 | 15    | 15    | 1                                                                                   | 1                                                                                   | 104-C23®22 |
| 30                 | 65   | 10                                                 | 15        | 15   | 15   | 2          | 5     | 7-1/2   | 10    | 20    | 25    | 0                                                                                   | 1                                                                                   | 104-C30®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C30®22 |
| 37                 | 65   | 11                                                 | 18.5/20   | 20   | 18.5 | 3          | 5     | 10      | 10    | 25    | 30    | 0                                                                                   | 1                                                                                   | 104-C37®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C37®22 |
| 43                 | 85   | 13                                                 | 22        | 25   | 22   | 3          | 7.5   | 10      | 15    | 30    | 30    | 0                                                                                   | 1                                                                                   | 104-C43®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C43®22 |
| 60                 | 100  | 18.5                                               | 32        | 37   | 32   | 5          | 10    | 15      | 20    | 40    | 50    | 0                                                                                   | 1                                                                                   | 104-C60®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C60®22 |
| 72                 | 100  | 22                                                 | 40        | 45   | 40   | 5          | 15    | 20      | 25    | 50    | 60    | 0                                                                                   | 1                                                                                   | 104-C72®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C72®22 |
| 85                 | 100  | 25                                                 | 45        | 55   | 45   | 7-1/2      | 15    | 25      | 30    | 60    | 60    | 0                                                                                   | 1                                                                                   | 104-C85®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C85®22 |
| 97                 | 130  | 30                                                 | 55        | 55   | 55   | 10         | 15    | 30      | 30    | 75    | 75    | 0                                                                                   | 1                                                                                   | 104-C97®02 |
|                    |      |                                                    |           |      |      |            |       |         |       |       |       | 1                                                                                   | 1                                                                                   | 104-C97®22 |

\* The N.C. auxiliary contact is supplied as part of the mechanical/electrical interlock.

## ⊗ 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.

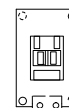
| [M]      | 12 | 24 | 32 | 36 | 42 | 48 | 100 | 100-110 | 110 | 120 | 127 | 200 | 200-220 | 208 | 220-230 | 230 | 230-240 | 240 | 277 | 347 | 380 | 380-400 | 400 | 400-415 | 440 | 480 | 500 | 550 | 600 |
|----------|----|----|----|----|----|----|-----|---------|-----|-----|-----|-----|---------|-----|---------|-----|---------|-----|-----|-----|-----|---------|-----|---------|-----|-----|-----|-----|-----|
| 50 Hz    | R  | K  | V  | W  | X  | Y  | KP  | —       | D   | P   | S   | KG  | L       | —   | F       | —   | VA      | T   | —   | —   | —   | N       | —   | G       | B   | —   | M   | C   | —   |
| 60 Hz    | Q  | J  | —  | V  | —  | X  | KP  | —       | D   | —   | —   | KG  | H       | L   | —       | —   | —       | A   | T   | I   | E   | —       | —   | —       | 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 SideCat. No.  
100-C09U®10  
Load Side