



Description

Bulletin 100S-D safety contactors are designed to provide safe isolation of hazardous motion loads, utilizing “mirror contact” performance. Mirror contacts provide reliable indication about the open/closed status of the main power poles.

Features

- 45...220 kW @500V
- 60...600 Hp @460V
- 75...700 Hp @575V
- Electronic and Conventional Coils
 - AC & DC
 - Integrated PLC Interface
 - Low Power Pick-Up & Hold-In
 - Wide Voltage Ranges
- Complete Range of Accessories
- Environmentally-Friendly
- Compact Dimensions

Specifications

Conformity to Standards

IEC 60947-4

IEC 60947-4 Annex F

IEC 60947 Type “2” Coordination

CSA 22.2 No. 14

UL 508

Approvals

CE marked for all applicable directives

CSA Certified

UL Listed

SUVA Certified

Contactors & Control Relays



Safety Contactors

100S-D

Product Selection

3-pole AC Contactors

- Conventional and Electronic AC Coils
- 3 Main Contacts
- Non-Reversing

| I_e [A] | | Switching of 3-Phase Motors—AC-2, AC-3 | | | | | | | | | | Auxiliary Contacts | | Catalogue Number |
|-----------|------|--|------|------|---------|----------|-------|------------|------|------|------|---|---|------------------|
| 60°C | 40°C | kW (50 Hz) | | | | | | Hp (60 Hz) | | | | N.O. | N.C. ❶ | |
| AC-3 | AC-1 | 230V | 400V | 415V | 500V | 690V | 1000V | 200V | 230V | 460V | 575V |  |  | |
| 95 | 160 | 25 | 50 | 50 | 55 | 80 | 45 | 25 | 30 | 60 | 75 | 2 | 2 | 100S-D95⊗22C |
| 110 | 160 | 32 | 55 | 55 | 63 | 100 | 55 | 40 | 40 | 75 | 100 | 2 | 2 | 100S-D110⊗22C |
| 140 | 250 | 45 | 75 | 75 | 80/90❷ | 110/132❷ | 75 | 40 | 50 | 100 | 125 | 2 | 2 | 100S-D140⊗22C |
| 180 | 250 | 55 | 90 | 100 | 90/110❷ | 132/160❷ | 90 | 50 | 60 | 150 | 150 | 2 | 2 | 100S-D180⊗22C |
| 210 | 350 | 63 | 110 | 110 | 150 | 200 | 110 | 60 | 75 | 150 | 200 | 2 | 2 | 100S-D210⊗22C |
| 250 | 350 | 80 | 132 | 150 | 160 | 250 | 133 | 75 | 100 | 200 | 250 | 2 | 2 | 100S-D250⊗22C |
| 300 | 450 | 90 | 160 | 160 | 200 | 300 | 163 | 100 | 125 | 250 | 300 | 2 | 2 | 100S-D300⊗22C |
| 420 | 500 | 132 | 220 | 250 | 300 | 425 | 225 | 150 | 175 | 350 | 400 | 2 | 2 | 100S-D420⊗22C |
| 630 | 800 | 200 | 355 | 355 | 450 | 500 | 425 | 200 | 250 | 500 | 600 | 2 | 2 | 100S-D630⊗22C |
| 860 | 1000 | 250 | 500 | 500 | 560 | 600 | 425 | 250 | 300 | 600 | 700 | 2 | 2 | 100S-D860⊗22C |

⊗ AC Coil Voltage Code

The Catalogue Number as listed is incomplete. Select a coil voltage code from the table below to complete the Catalogue Number. Example: 120V 60 Hz: Catalogue Number **104S-C09⊗210C** becomes Catalogue Number **104S-C09D210C**.

| Conventional Coil | V | 24 | 48 | 100 | 110 | 120 | 200 | 208 | 220... 230 | 230 | 240 | 277 | 380... 400 | 415 | 440 | 480 | 500 | 550 | 600 |
|--------------------------|----------|----|----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|
| 100S-D95... 100S-D180 | 50 Hz | K | Y | — | D | — | — | — | A | — | T | — | N | B | G | — | M | C | — |
| | 60 Hz | J | X | — | — | D | — | H | — | — | A | T | — | — | N | B | — | — | C |
| 100S-D95... 100S-D110 | 50/60 Hz | KJ | — | KP | KN | — | KG | — | — | KF | KA | — | — | — | — | — | — | — | — |

| Electronic Coil w/PLC Interface ❷ | V | 24 | 42... 64 | 100 | 110... 130 | 200 | 208... 277 | 380... 415 | 440... 480 | 500 | 600 |
|--------------------------------------|----------|----|-------------|-----|---------------|-----|---------------|---------------|---------------|-----|-----|
| 100S-D95... 100S-D250 | 50/60 Hz | EJ | EY | EP | ED | EG | EA | EN | EN | EN | — |
| 100S-D300... 100S-D420 | 50/60 Hz | — | EY | EP | ED | EG | EA | EN | EN | EN | — |
| 100S-D630... 100S-D860 | 50/60 Hz | — | — | EP | ED | EG | EA | EN | EB | EM | EC |

❶ The N.C. contacts meet IEC 60947-4 Annex F requirements to mirror contact performance. The N.C. mirror contacts are wired in series or parallel and must be used as monitoring contacts with feedback to the safety circuit.

❷ Signal voltage of the Cat. No. 100S-D... electronic interface: U_e : 24V DC/ I_e : 15 mA



Pick-Up Voltage: 13.0V DC...30.2V DC
Drop-Out Voltage: -3.0V DC...+5.0V DC

❸ Higher kW rating only applies to contactors with electronic coil.

Product Selection

3-Pole DC Contactors

- Conventional and Electronic DC Coils
- 3 Main Contacts
- Non-Reversing

| I_e [A] | | Switching of 3-Phase Motors—AC-2, AC-3 | | | | | | | | | | Auxiliary Contacts | | Catalogue Number |
|-----------|------|--|------|------|-------|-------|-------|------------|------|------|------|---|---|----------------------------------|
| 60°C | 40°C | kW (50 Hz) | | | | | | Hp (60 Hz) | | | | N.O. | N.C. ❶ | |
| AC-3 | AC-1 | 230V | 400V | 415V | 500V | 690V | 1000V | 200V | 230V | 460V | 575V |  |  | |
| 95 | 160 | 25 | 50 | 50 | 55 | 80 | 45 | 25 | 30 | 60 | 75 | 3 | 2/1L | 100S-D95 ⊗ 33LC ❷ |
| | | | | | | | | | | | | 2 | 2 | 100S-D95 ⊗ 22C |
| 110 | 160 | 32 | 55 | 55 | 63 | 100 | 55 | 40 | 40 | 75 | 100 | 3 | 2/1L | 100S-D110 ⊗ 33LC ❷ |
| | | | | | | | | | | | | 2 | 2 | 100S-D110 ⊗ 22C |
| 140 | 250 | 45 | 75 | 75 | 80 | 110 | 75 | 40 | 50 | 100 | 125 | 3 | 2/1L | 100S-D140 ⊗ 33LC ❷ |
| | | | | | 90 ❸ | 132 ❸ | | | | | | 2 | 2 | 100S-D140 ⊗ 22C |
| 180 | 250 | 55 | 90 | 100 | 90 | 132 | 90 | 50 | 60 | 150 | 150 | 2 | 2 | 100S-D180 ⊗ 22C |
| | | | | | 110 ❸ | 160 ❸ | | | | | | | | |
| 210 | 350 | 63 | 110 | 110 | 150 | 200 | 110 | 60 | 75 | 150 | 200 | 2 | 2 | 100S-D210 ⊗ 22C |
| 250 | 350 | 80 | 132 | 150 | 160 | 250 | 133 | 75 | 100 | 200 | 250 | 2 | 2 | 100S-D250 ⊗ 22C |
| 300 | 450 | 90 | 160 | 160 | 200 | 300 | 163 | 100 | 125 | 250 | 300 | 2 | 2 | 100S-D300 ⊗ 22C |
| 420 | 500 | 132 | 220 | 250 | 300 | 425 | 225 | 150 | 175 | 350 | 400 | 2 | 2 | 100S-D420 ⊗ 22C |
| 630 | 800 | 200 | 355 | 355 | 450 | 500 | 425 | 200 | 250 | 500 | 600 | 2 | 2 | 100S-D630 ⊗ 22C |
| 860 | 1000 | 250 | 500 | 500 | 560 | 600 | 425 | 250 | 300 | 600 | 700 | 2 | 2 | 100S-D860 ⊗ 22C |

⊗ **AC Coil Voltage Code**

The Catalogue Number as listed is incomplete. Select a coil voltage code from the table below to complete the Catalogue Number. Example: 120V 60 Hz: Catalogue Number **104S-C09**⊗**210C** becomes Catalogue Number **104S-C09D210C**.

| Conventional Coil | V | 24 | 48 | 110 | 125 | 220 | 250 |
|------------------------|----|----|----|-----|-----|-----|-----|
| 100S-D95...100S-D140 ❷ | DC | ZJ | ZY | ZD | ZS | ZA | ZT |

| Electronic Coil w/EI Interface ❸ | V | 24 | 48...72 | 110...130 | 200...255 |
|----------------------------------|----|-----|---------|-----------|-----------|
| 100S-D95...100S-D300 | DC | EZJ | EZY | EZD | EZA |
| 100S-D420 | DC | — | EZY | EZD | EZA |
| 100S-D630...860 | DC | — | — | ED | EA |

- ❶ The N.C. contacts meet IEC 60947-4 Annex F requirements to mirror contact performance. The N.C. mirror contacts are wired in series or parallel and must be used as monitoring contacts with feedback to the safety circuit.
- ❷ For conventional DC coil only. The pickup winding must be interconnected with the N.C. late-breaking auxiliary contacts.
- ❸ Signal voltage of the Cat. No. 100S-D... electronic interface: U_g : 24V DC/ I_g : 15 mA
 Pick-Up Voltage: 13.0V DC...30.2V DC
 Drop-Out Voltage: -3.0V DC...+5.0V DC
- ❹ Higher kW rating only applies to contactors with electronic coil.

Contactors & Control Relays

Safety Contactors

100S-C

General Ratings

| | Catalogue Number 100S-C09...100S-C85 |
|--|--|
| Rated Isolation Voltage U_i IEC, AS, BS, SEV, VDE 0660; UL; CSA | 690V 600V |
| Rated Impulse Voltage U_{imp} | 8 kV |
| Rated Voltage U_e Main Contacts AC 50/60Hz DC | 115, 200, 208, 230, 240, 380, 400, 415, 460, 500, 575, 690V 24, 48, 110, 115, 220, 230, 300, 440V |
| Operating Frequency for AC Loads | 50...60 Hz |

Switching Motor Loads

| | Catalogue Number | | 100S-C09 | 100S-C12 | 100S-C16 | 100S-C23 | 100S-C30 | 100S-C37 | 100S-C43 | 100S-C60 | 100S-C72 | 100S-C85 | |
|---|--|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|
| Standard Ratings | | | | | | | | | | | | | |
| AC-2, AC-3, AC-4-50Hz DOL & Reversing IEC | 230V | [A] | 12 | 15 | 20 | 26.5 | 25 | 38 | 44 | 62 | 72 | 85 | |
| | 240V | [A] | 12 | 15 | 20 | 26.5 | 35 | 38 | 44 | 62 | 72 | 85 | |
| | 400V | [A] | 9 | 12 | 16 | 23 | 30 | 37 | 43 | 60 | 72 | 85 | |
| | 415V | [A] | 9 | 12 | 16 | 23 | 30 | 37 | 43 | 60 | 72 | 85 | |
| | 500V | [A] | 7 | 10 | 14 | 20 | 25 | 30 | 38 | 55 | 67 | 80 | |
| | 690V | [A] | 5 | 7 | 9 | 12 | 18 | 21 | 25 | 34 | 42 | 49 | |
| | 230V | [kW] | 3 | 4 | 5.5 | 7.5 | 10 | 11 | 13 | 18.5 | 22 | 25 | |
| | 240V | [kW] | 3 | 4 | 5.5 | 7.5 | 10 | 11 | 13 | 18.5 | 22 | 25 | |
| | 400V | [kW] | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 32 | 40 | 45 | |
| | 415V | [kW] | 4 | 5.5 | 7.5 | 11 | 15 | 20 | 22 | 32 | 40 | 45 | |
| | 500V | [kW] | 4 | 5.5 | 7.5 | 13 | 15 | 20 | 25 | 37 | 45 | 55 | |
| | 690V | [kW] | 4 | 5.5 | 7.5 | 10 | 15 | 18.5 | 22 | 32 | 40 | 45 | |
| | AC-2, AC-3, AC-4-60Hz DOL & Reversing UL/CSA/IEC | 1-Ph 115V | [A] | 9.8 | 9.8 | 16 | 24 | 24 | 34 | 34 | 56 | 56 | 80 |
| | | 230V | [A] | 10 | 12 | 17 | 17 | 28 | 28 | 40 | 50 | 68 | 68 |
| 115 V | | [HP] | 1/2 | 1/2 | 1 | 2 | 2 | 3 | 3 | 5 | 5 | 7-1/2 | |
| 230 V | | [HP] | 1 1/2 | 2 | 3 | 3 | 5 | 5 | 7-1/2 | 10 | 15 | 15 | |
| 3-Ph 200V | | [A] | 7.8 | 11 | 17.5 | 17.5 | 25.3 | 32.2 | 32.2 | 48.3 | 62.1 | 78.2 | |
| 230 V | | [A] | 6.8 | 9.6 | 15.2 | 22 | 28 | 28 | 42 | 54 | 68 | 80 | |
| 460 V | | [A] | 7.6 | 11 | 14 | 21 | 27 | 34 | 40 | 52 | 65 | 77 | |
| 575 V | | [A] | 9 | 11 | 17 | 17 | 27 | 32 | 32 | 52 | 62 | 62 | |
| 200 V | | [HP] | 2 | 3 | 5 | 5 | 7-1/2 | 10 | 10 | 15 | 20 | 25 | |
| 230 V | | [HP] | 2 | 3 | 5 | 7-1/2 | 10 | 10 | 15 | 20 | 25 | 30 | |
| 460 V | | [HP] | 5 | 7-1/2 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | |
| 575 V | | [HP] | 7-1/2 | 10 | 15 | 15 | 25 | 30 | 30 | 50 | 60 | 60 | |

General Ratings

| | Catalogue Number 100S-D95...100S-D860 |
|--|--|
| Rated Isolation Voltage U_i IEC, AS, BS, SEV, VDE 0660; UL; CSA | 690V 600V |
| Rated Impulse Voltage U_{imp} | 12kV |
| Rated Voltage U_e Main Contacts AC 50/60Hz DC | 115, 200, 208, 230, 240, 380, 400, 415, 460, 500, 575, 690, 1000V 24, 48, 110, 115, 220, 230, 300, 440V |
| Operating Frequency for AC Loads | 50...60 Hz |

Switching Motor Loads

| | Catalogue Number | 100S-D95 | 100S-D110 | 100S-D140 | 100S-D140 | 100S-D180 | 100S-D180 | 100S-D210 | 100S-D250 | 100S-D300 | 100S-D420 | 100S-D630 | 100S-D860 |
|---|------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Coil Type | Conventional | X | X | X | — | X | — | — | — | — | — | — | — |
| | Electronic-EI | X | X | — | X | — | X | X | X | X | X | X | X |
| Standard Ratings AC-2, AC-3, AC-4-50Hz DOL & Reversing IEC | 230V [A] | 95 | 110 | 140 | 140 | 180 | 180 | 210 | 250 | 300 | 420 | 630 | 860 |
| | 240V [A] | 95 | 110 | 140 | 140 | 180 | 180 | 210 | 250 | 300 | 420 | 630 | 860 |
| | 400V [A] | 95 | 110 | 140 | 140 | 180 | 180 | 210 | 250 | 300 | 420 | 630 | 860 |
| | 415V [A] | 95 | 110 | 140 | 140 | 180 | 180 | 210 | 250 | 300 | 420 | 630 | 860 |
| | 500V [A] | 95 | 110 | 115 | 140 | 140 | 180 | 210 | 250 | 300 | 420 | 630 | 753 |
| | 690V [A] | 95 | 110 | 115 | 140 | 140 | 180 | 210 | 250 | 300 | 420 | 630 | 860 |
| | 1000V [A] | 33 | 40 | 55 | 55 | 65 | 65 | 80 | 95 | 115 | 160 | 250 | 860 |
| | 230V [kW] | 25 | 32 | 45 | 45 | 57 | 57 | 67 | 80 | 97 | 135 | 200 | 250 |
| | 240V [kW] | 25 | 32 | 45 | 45 | 60 | 60 | 70 | 83 | 101 | 141 | 200 | 250 |
| | 400V [kW] | 45 | 55 | 75 | 75 | 101 | 101 | 118 | 140 | 170 | 238 | 355 | 500 |
| | 415V [kW] | 45 | 55 | 80 | 80 | 105 | 105 | 122 | 145 | 174 | 250 | 355 | 500 |
| | 500V [kW] | 55 | 63 | 80 | 90 | 98 | 126 | 150 | 177 | 213 | 300 | 450 | 560 |
| | 690V [kW] | 80 | 100 | 110 | 132 | 135 | 176 | 205 | 250 | 300 | 425 | 630 | 860 |
| | 1000V [kW] | 45 | 55 | 75 | 75 | 90 | 90 | 110 | 132 | 160 | 225 | 355 | 500 |
| AC-2, AC-3, AC-4-60Hz DOL & Reversing UL/CSA/IEC | 1-Ph 115V [A] | 80 | 100 | 135 | 135 | — | — | — | — | — | — | — | — |
| | 230V [A] | 68 | 110 | 136 | 136 | 176 | 176 | 216 | — | — | — | — | — |
| | 115 V [HP] | 7.5 | 10 | 15 | 15 | — | — | — | — | — | — | — | — |
| | 230 V [HP] | 15 | 25 | 30 | 30 | 40 | 40 | 50 | — | — | — | — | — |
| | 3-Ph 200V [A] | 78.2 | 120 | 120 | 120 | 150 | 150 | 177 | 221 | 285 | 414 | 552 | 692 |
| | 230 V [A] | 80 | 104 | 130 | 130 | 154 | 154 | 192 | 248 | 312 | 420 | 602 | 720 |
| | 460 V [A] | 77 | 96 | 124 | 124 | 180 | 180 | 180 | 240 | 302 | 414 | 590 | 702 |
| | 575 V [A] | 77 | 99 | 125 | 125 | 144 | 144 | 192 | 242 | 289 | 382 | 562 | 651 |
| | 200 V [HP] | 25 | 40 | 40 | 40 | 50 | 50 | 60 | 75 | 100 | 150 | 200 | 250 |
| | 230 V [HP] | 30 | 40 | 50 | 50 | 60 | 60 | 75 | 100 | 125 | 175 | 250 | 300 |
| | 460 V [HP] | 60 | 75 | 100 | 100 | 150 | 150 | 150 | 200 | 250 | 350 | 500 | 600 |
| | 575 V [HP] | 75 | 100 | 125 | 125 | 150 | 150 | 200 | 250 | 300 | 400 | 600 | 700 |

Contactors & Control Relays

Safety Contactors

100S-C

Coil Data

| | | | 100S-C09 | 100S-C12 | 100S-C16 | 100S-C23 | 100S-C30 | 100S-C37 | 100S-C43 | 100S-C60 | 100S-C72 | 100S-C85 |
|---|--------------------|---------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Voltage Range AC: 50 Hz, 60 Hz, 50/60 Hz | Pick-up | [x U _S] | 0.85...1.1 | | | | | | | | | |
| | Dropout | [x U _S] | 0.3...0.6 | | | | | | | | | |
| DC | Pick-up | [x U _S] | 0.8...1.1 | | | | | | | | | |
| | Dropout | [x U _S] | 0.1...0.6 | | | | | | | | | |
| Coil Consumption AC: 50 Hz, 60 Hz, 50/60 Hz | Pick-up | [VA/W] | 70/50 | 70/50 | 70/50 | 70/50 | 80/60 | 80/60 | 130/90 | 200/110 | 200/110 | 200/110 |
| | Hold-in | [VA/W] | 8/2.6 | 8/2.6 | 8/2.6 | 9/3 | 9/3 | 9/3 | 10/3.2 | 16/4.5 | 16/4.5 | 16/4.5 |
| DC | Pick-up | [W] | 6.5 | 6.5 | 6.5 | 9.2 | 9.2 | 9.2 | 10.1 | 200 | 200 | 200 |
| | Hold-in | [W] | 6.5 | 6.5 | 6.5 | 9.2 | 9.2 | 9.2 | 10.1 | 4.5 | 4.5 | 4.5 |
| Operating Time AC: 50 Hz, 60 Hz, 50/60 Hz | Pick-up | [ms] | 15...30 | 15...30 | 15...30 | 15...30 | 15...30 | 15...30 | 15...30 | 20...40 | 20...40 | 20...40 |
| | Dropout | [ms] | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 |
| | with RC Suppressor | Dropout | [ms] | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 | 10...60 |
| DC | Pick-up | [ms] | 40...70 | 40...70 | 40...70 | 40...70 | 50...80 | 50...80 | 50...80 | 20...40 | 20...40 | 20...40 |
| | Dropout | [ms] | 7...15 | 7...15 | 7...15 | 7...15 | 7...15 | 7...15 | 7...15 | — | — | — |
| with Integ. Suppres. | Dropout | [ms] | 14...20 | 14...20 | 14...20 | 17...23 | 17...23 | 17...23 | 17...23 | 20...35 | 20...35 | 20...35 |
| with Diode Suppres. | Dropout | [ms] | 70...95 | 70...95 | 70...95 | 80...125 | 80...125 | 80...125 | 80...125 | 80...125 | 80...125 | 80...125 |

Coil Data

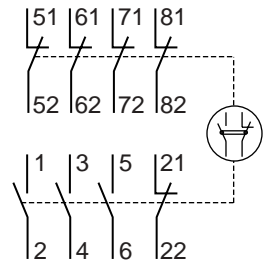
| | Catalogue Number | 100S-D95 | 100S-D110 | 100S-D140 | 100S-D140 | 100S-D180 | 100S-D180 | 100S-D210 | 100S-D250 | 100S-D300 | 100S-D420 | 100S-D630 | 100S-D860 |
|----------------------------|------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-------------|
| Coil Type | Conventional | X | X | X | — | X | — | — | — | — | — | — | — |
| | Electronic-EI | X | X | — | X | — | X | X | X | X | X | X | X |
| Voltage Range | | 0.85...1.1 | | | | | | | | | | 0.85...1.1 | |
| AC: 50 Hz, 60 Hz, 50/60 Hz | Pick-up | [x U _S] | | | | | | | | | | 0.3...0.8 | |
| | Dropout | [x U _S] | | | | | | | | | | 0.3...0.8 | |
| DC | Pick-up | [x U _S] | | | | | | | | | | 0.80...1.1 | |
| | Dropout | [x U _S] | | | | | | | | | | 0.3...0.8 | |
| Coil Consumption | | 370/243 ❶ | | | | | | | | | | 590/355 ❶ | 1915/1720 ❶ |
| AC: 50 Hz, 60 Hz, 50/60 Hz | Pick-up | [VA/W] | | | | | | | | | | 15/7 | 33/30 |
| | Hold-in | [VA/W] | | | | | | | | | | 375 ❶ | 1980 ❶ |
| DC | Pick-up | [W] | | | | | | | | | | 7 | 30 |
| | Hold-in | [W] | | | | | | | | | | 6 | 30 |
| Operating Time | | 75...90 | | | | | | | | | | 75...90 | 60...100 |
| AC: 50 Hz, 60 Hz, 50/60 Hz | Pick-up | [ms] | | | | | | | | | | 30...60 | 70...145 |
| | Dropout | [ms] | | | | | | | | | | — | — |
| with RC Suppressor | Dropout | [ms] | | | | | | | | | | — | — |
| DC | Pick-up | [ms] | | | | | | | | | | 75...90 | 60...100 |
| | Dropout | [ms] | | | | | | | | | | 30...60 | 70...145 |
| with Integ. Suppres. | Dropout | [ms] | | | | | | | | | | — | — |
| with Diode Suppres. | Dropout | [ms] | | | | | | | | | | — | — |

❶ Electronic coil drives are designed to minimize coil consumption. However, this design may cause a large inrush (<1ms) when energizing. This must be taken into account when sizing power supplies, all-or-nothing relays and the cross-sections of the coil wires.

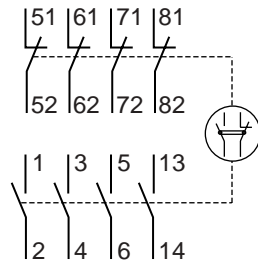
Safety Contactors

Connections

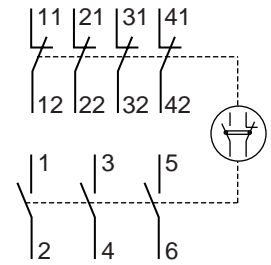
3-Pole Safety Contactors



100S-C09®05C...C23®05C

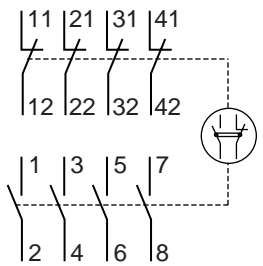


100S-C09®14C...C23®14C

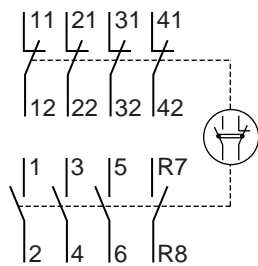


100S-C30®04C...C85®04C

4-Pole Safety Contactors

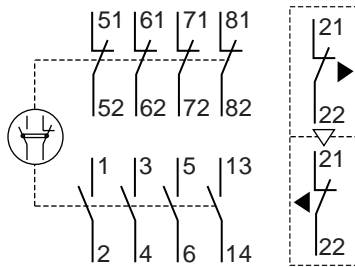


100S-C09®404C...C23®404C

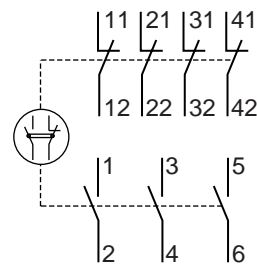
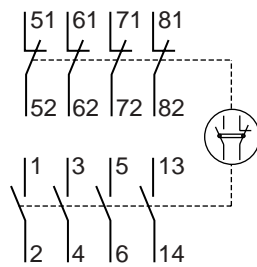


100S-C09®304C...C23®304C

Reversing Safety Contactors



104S-C09®210C...C23®210C



104S-C30®010C...C85®010C

