

### General characteristics

|                   |                                     |
|-------------------|-------------------------------------|
| Switching diagram | 85 - Multi-step 1-2-3-4-6 1 pole    |
| N° of elements    | 3                                   |
| Mounting form     | O - Rear mounting with black handle |

### Contact characteristics

|   |                    |     |           |
|---|--------------------|-----|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN             | V   | 690       |
|   | UL/CSA             | V   | 600       |
| Rated impulse withstand voltage $U_{imp}$                 |                    | kV  | 6         |
| Conventional free air thermal current $I_{th}$            | IEC/EN             | A   | 16        |
|   | UL/CSA             | A   | 12        |
| Rated operational voltage                                 |                    | V   | 440       |
| Rated operational impulse voltage                         |                    | kV  | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA               | A   | 16        |
|   | 15kA               | A   | 16        |
|   | 25kA               | A   | 16        |
| Rated short time current $I_{cw}$                         | 1s                 | kA  | 250       |
|   |                    |     | 10/5 mA/V |
| Conductivity  |                    |     |           |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A          |     |           |
|   |                    | A   | 16        |
|   | AC15               |     |           |
|   | 110V               | A   | 10        |
|   | 220/230V           | A   | 8         |
| 380/400V  | A                  | 4   |           |
| 660/690V  | A                  | 1.5 |           |
| Rated operational power in AC                             | Three-phase AC-3   |     |           |
|   | 220/230V           | kW  | 3.5       |
|   | 380/440V           | kW  | 4.5       |
|   | 500/690V           | kW  | 5.5       |
|   | Single-phase AC-3  |     |           |
|   | 110V               | kW  | 0.55      |
|   | 220/230V           | kW  | 1.5       |
|   | 380/440V           | kW  | 2.2       |
|   | Three-phase AC23A  |     |           |
|   | 220/230V           | kW  | 3.7       |
|   | 380/440V           | kW  | 6.5       |
|   | 500/690V           | kW  | 7.5       |
|   | Single-phase AC23A |     |           |
|   | 110V               | kW  | 0.75      |
|   | 220/230V           | kW  | 1.8       |
| 380/440V  | kW                 | 3   |           |
| Rated operational current in DC                           | DC21A              |     |           |
|   | 48V                | A   | 16        |
|   | 60V                | A   | 16        |

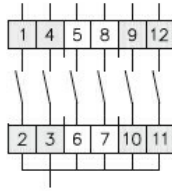
|  |      |                 |                   |
|--|------|-----------------|-------------------|
|  | 110V | A               | 4                 |
|  | 220V | A               | 0.6               |
|  | 440V | A               | 0.25              |
| <hr/>                                  |      |                 |                   |
| DC23A (poles in series)                | 24V  | A               | 16 (1)            |
|  | 48V  | A               | 16 (2)            |
|  | 60V  | A               | 16 (3)            |
|  | 110V | A               | 10 (3)            |
|  | 220V | A               | 7 (4)             |
| <hr/>                                  |      |                 |                   |
| DC13                                   | 24V  | A               | 16                |
|  | 48V  | A               | 14                |
|  | 60V  | A               | 10                |
|  | 110V | A               | 1                 |
|  | 220V | A               | 0.4               |
|  | 440V | A               | 0.15              |
| <hr/>                                  |      |                 |                   |
| Power dissipation                      |      | W               | 0.6               |
| <b>Mechanical features</b>             |      |                 |                   |
| Terminals screw                        |      |                 | 3M                |
| Tightening torque for terminals max    |      | Nm              | 0.5               |
| <hr/>                                  |      |                 |                   |
| Conductor size                         |      |                 |                   |
| AWG - Rigid cable                      | min  | AWG             | 20                |
|  | Max  | AWG             | 12                |
| <hr/>                                  |      |                 |                   |
| AWG - Flexible cable                   | min  | AWG             | 20                |
|  | Max  | AWG             | 12                |
| <hr/>                                  |      |                 |                   |
| Conductor size (IEC) - Flexible cable  | min  | mm <sup>2</sup> | 0.5               |
|  | Max  | mm <sup>2</sup> | 2.5               |
| <hr/>                                  |      |                 |                   |
| Conductor size (IEC) - Rigid cable     | min  | mm <sup>2</sup> | 0.5               |
|  | Max  | mm <sup>2</sup> | 2.5               |
| <hr/>                                  |      |                 |                   |
| Mechanical life                        |      | cycles          | 1X10 <sup>6</sup> |
| <b>UL technical data</b>               |      |                 |                   |
| Motor power for direct-on-line control |      |                 |                   |
| for three-phase motor                  | 120V | HP              | 1.5               |
|  | 240V | HP              | 3                 |
|  | 480V | HP              | 5                 |
|  | 600V | HP              | 5                 |
| <hr/>                                  |      |                 |                   |
| for single-phase motor                 | 120V | HP              | 0.75              |
|  | 240V | HP              | 1                 |
| <hr/>                                  |      |                 |                   |
| <b>Ambient conditions</b>              |      |                 |                   |
| Temperature                            |      |                 |                   |
| Operating temperature                  | min  | °C              | -25               |
|  | max  | °C              | +55               |
| <hr/>                                  |      |                 |                   |
| Storage temperature                    | min  | °C              | -40               |
|  | max  | °C              | +70               |
| <hr/>                                  |      |                 |                   |
| <b>Resistance &amp; Protection</b>     |      |                 |                   |
| Frontal IP degree                      |      |                 | IP65              |

Terminals IP degree

IP20

Dimensions

Wiring diagrams



|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | X |   |   |   |   |
| 2 |   |   | X |   |   |
| 3 |   |   |   |   | X |
| 4 |   | X |   |   |   |
| 5 |   |   |   | X |   |
| 6 |   |   |   |   | X |

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Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

IEC/EN/BS 61058-1

UL60947-4-1

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete