

|   |                   |     |      |                                      |
|---|-------------------|-----|------|--------------------------------------|
| Product designation                                       |                   |     |      | Rotary cam switches                  |
| Product type designation                                  |                   |     |      | 7GN63                                |
| <b>General characteristics</b>                            |                   |     |      |                                      |
| Switching diagram   |                   |     |      | 12 - Star-delta motor starter switch |
| N° of elements  |                   |     |      | 4                                    |
| Mounting form   |                   |     |      | Front mounting with black handle (U) |
| <b>Contact characteristics</b>                            |                   |     |      |                                      |
| 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   | 63   |                                      |
|   | UL/CSA            | A   | 60   |                                      |
| Rated operational voltage                                 |                   |     | V    | 480                                  |
| Rated operational impulse voltage                         |                   |     | kV   | 4                                    |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA              | A   | 63   |                                      |
|   | 15kA              | A   | 63   |                                      |
|   | 25kA              | A   | 63   |                                      |
|   | 50kA              | A   | 63   |                                      |
|   | 63kA              | A   | 63   |                                      |
| Rated short time current $I_{cw}$                         |                   |     | 1s   | A                                    |
|   |                   |     |      | 1600                                 |
| Conductivity  |                   |     |      | 10/5 mA/V                            |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A         |     |      | A                                    |
|   |                   |     |      | 63                                   |
| AC15  | 110V              | A   | 32   |                                      |
|   | 220/230V          | A   | 25   |                                      |
|   | 380/400V          | A   | 15   |                                      |
|   | 660/690V          | A   | 4    |                                      |
|   |                   |     |      |                                      |
| Rated operational power in AC                             | Three-phase AC3   |     |      |                                      |
|   | 220/230V          | kW  | 11   |                                      |
|   | 380/440V          | kW  | 18.5 |                                      |
|   | 500/690V          | kW  | 18.5 |                                      |
|   | Single-phase AC3  |     |      |                                      |
|   | 110V              | kW  | 3.7  |                                      |
|   | 220/230V          | kW  | 6.5  |                                      |
|   | 380/440V          | kW  | 11.5 |                                      |
|   | Three-phase AC23A |     |      |                                      |
|   | 220/230V          | kW  | 12.5 |                                      |
|   | 380/440V          | kW  | 30   |                                      |
|   | 500/690V          | kW  | 30   |                                      |
| Single-phase AC23A  |                   |     |      |                                      |
| 110V  | kW                | 3.7 |      |                                      |
| 220/230V  | kW                | 7.5 |      |                                      |

|  |  | 380/440V | kW              | 12.5              |
|--|--|----------|-----------------|-------------------|
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  | 48V      | A               | 63                |
|  |  | 60V      | A               | 50                |
|  |  | 110V     | A               | 8                 |
|  |  | 220V     | A               | 1                 |
| DC23A (poles in series)                |  | 24V      | A               | 50 (1)            |
|  |  | 48V      | A               | 50 (2)            |
|  |  | 60V      | A               | 50 (3)            |
|  |  | 110V     | A               | 25 (3)            |
|  |  | 220V     | A               | 15 (4)            |
| DC13                                   |  | 24V      | A               | 63                |
|  |  | 48V      | A               | 40                |
|  |  | 60V      | A               | 28                |
|  |  | 110V     | A               | 3.3               |
| Power dissipation                      |  |          | W               | 3.4               |
| <b>Mechanical features</b>             |  |          |                 |                   |
| Terminals screw                        |  |          |                 | M5                |
| Tightening torque for terminals max    |  |          | Nm              | 2                 |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  | min      | AWG             | 14                |
|  |  | Max      | AWG             | 6                 |
| AWG - Flexible cable                   |  | min      | AWG             | 14                |
|  |  | Max      | AWG             | 8                 |
| Conductor size (IEC) - Flexible cable  |  | min      | mm <sup>2</sup> | 2.5               |
|  |  | Max      | mm <sup>2</sup> | 10                |
| Conductor size (IEC) - Rigid cable     |  | min      | mm <sup>2</sup> | 2.5               |
|  |  | Max      | mm <sup>2</sup> | 16                |
| Mechanical life                        |  |          | cycles          | 5x10 <sup>6</sup> |
| <b>UL technical data</b>               |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  | 120V     | HP              | 7.5               |
|  |  | 240V     | HP              | 15                |
|  |  | 480V     | HP              | 25                |
|  |  | 600V     | HP              | 25                |
| for single-phase motor                 |  | 120V     | HP              | 3                 |
|  |  | 240V     | HP              | 10                |
| <b>Ambient conditions</b>              |  |          |                 |                   |
| Temperature                            |  |          |                 |                   |
| Operating temperature                  |  | min      | °C              | -25               |
|  |  | max      | °C              | +55               |
| Storage temperature                    |  | min      | °C              | -40               |
|  |  | max      | °C              | +70               |

**Resistance & Protection**

|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

**Dimensions**

**Wiring diagrams**

**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  
UL60947-4-1

**Certificates**

cCSAus  
EAC  
UL

**ETIM classification**

|          |                            |
|----------|----------------------------|
| ETIM 8.0 | EC001105 - Off-load switch |
|----------|----------------------------|