

|   |                   |      |      |  |
|---|-------------------|------|------|--|
| Product designation                                       |                   |      |      | Rotary cam switches  |
| Product type designation                                  |                   |      |      | 7GN63  |
| <b>General characteristics</b>                            |                   |      |      |  |
| Switching diagram   |                   |      |      | 53 - Changeover switch 3 poles - 2 speed motor starting with separate windings |
| N° of elements  |                   |      |      | 3  |
| Mounting form   |                   |      |      | Plastic enclosure with black handle (P)  |
| <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               |

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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

|                     |
|---------------------|
| IEC/EN/BS 60947-1   |
| IEC/EN/BS 60947-3   |
| IEC/EN/BS 60947-5-1 |

Certificates

EAC

**ETIM classification**

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