

|   |          |    |      |  |
|---|----------|----|------|--|
| Product designation                                       |          |    |      | Rotary cam switches                        |
| Product type designation                                  |          |    |      | 7GN63                                      |
| <b>General characteristics</b>                            |          |    |      |  |
| Switching diagram   |          |    |      | 136 - Multi-step<br>0-1-2-3 3 poles        |
| N° of elements  |          |    |      | 5  |
| Mounting form   |          |    |      | U - Front<br>mounting with<br>black handle |
| <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 AC-3  | 220/230V | kW | 11   |  |
|   | 380/440V | kW | 18.5 |  |
|   | 500/690V | kW | 18.5 |  |
| Single-phase AC-3   | 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    |                   |

|                                    |  |
|------------------------------------|--|
| <b>Resistance &amp; Protection</b> |  |
| Frontal IP degree                  | IP40                                       |
| Terminals IP degree                | IP00                                       |
| <b>ETIM classification</b>         |  |
| ETIM 8.0                           | EC001029 -<br>Selector switch,<br>complete |