

## **7GN2007O48** ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 3 POLES 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

|  |                      |           | Rotary cam                         |
|--|----------------------|-----------|------------------------------------|
| Product designation                                    |                      |           | switches                           |
| Product type designation                               |                      |           | 7GN20                              |
| General characteristics                                |                      |           | 07 - ON/OFF                        |
| Switching diagram                                      |                      |           | switch 3 poles                     |
| N° of elements   |                      |           | 2                                  |
|  |                      |           | O48 - Modular                      |
| Mounting form  |                      |           | service cover for<br>35mm din rail |
|  |                      |           | mounting with                      |
|  |                      |           | black handle                       |
| Contact characteristics                                |                      |           |                                    |
| Rated insulation voltage Ui                            |                      | .,        |                                    |
|  | IEC/EN<br>UL/CSA     | V         | 690<br>600                         |
| Rated impulse withstand voltage Uimp                   | UL/CSA               | <br>      | <u>600</u><br>6                    |
| Conventional free air thermal current Ith              |                      | ΓV        | 0                                  |
|  | IEC/EN               | А         | 20                                 |
|  | UL/CSA               | A         | 20                                 |
| Rated operational voltage                              |                      | V         | 480                                |
| Rated operational impulse voltage                      |                      | kV        | 4                                  |
| Maximum fuse size for short-circuit protection In (gG) |                      |           |                                    |
|  | 10kA                 | A         | 20                                 |
|  | 15kA                 | A         | 16                                 |
| Rated short time current Icw                           | 25kA                 | A         | 16                                 |
| Rated short time current icw                           | 1s                   | kA        | 250                                |
| Conductivity   | 15                   |           | 10/5 mA/V                          |
| Operational current le IEC/EN                          |                      |           |                                    |
| AC1/AC21A  |                      |           |                                    |
|  |                      | А         | 20                                 |
| AC15   |                      |           | 4.0                                |
|  | 110V                 | A<br>A    | 10                                 |
|  | 220/230V<br>380/400V | A         | 8<br>6                             |
|  | 660/690V             | A         | 1.5                                |
| Rated operational power in AC                          |                      |           |                                    |
| Three-phase AC-3                                       |                      |           |                                    |
|  | 220/230V             | kW        | 3                                  |
|  | 380/440V             | kW        | 5.5                                |
|  | 500/690V             | kW        | 5.5                                |
| Single-phase AC-3                                      | 44017                | 1.1.1.1   | 0.9                                |
|  | 110V<br>220/230V     | kW<br>kW  | 0.8<br>2.2                         |
|  | 380/440V             | kW        | 3                                  |
| Three-phase AC23A                                      | 000, 110             |           |                                    |
| ·  | 220/230V             | kW        | 5                                  |
|  | 380/440V             | kW        | 7.5                                |
|  | 500/690V             | kW        | 7.5                                |
| Single-phase AC23A                                     |                      | 1.1.47    | 0.0                                |
|  | 110V<br>220/230V     | kW<br>kW  | 0.8<br>2.5                         |
|  | 220/230V<br>380/440V | кvv<br>kW | 2.5<br>3.7                         |
|  | 000/4401             | 1         | 5.7                                |

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Rated operational current in DC

| Rated operational curre  |                                       |            |          |                   |
|--------------------------|---------------------------------------|------------|----------|-------------------|
|                          | DC21A                                 |            |          |                   |
|                          |                                       | 48V        | A        | 20                |
|                          |                                       | 60V        | А        | 20                |
|                          |                                       | 110V       | А        | 4                 |
|                          |                                       | 220V       | А        | 0.6               |
|                          |                                       | 440V       | А        | 0.25              |
|                          | DC23A (poles in series)               |            |          |                   |
|                          |                                       | 24V        | А        | 20 (1)            |
|                          |                                       | 48V        | А        | 20 (2)            |
|                          |                                       | 60V        | А        | 20 (3)            |
|                          |                                       | 110V       | A        | 10 (3)            |
|                          |                                       | 220V       | A        | 8 (4)             |
|                          | DC13                                  | 2201       |          | 0(1)              |
|                          | DC13                                  | 24V        | ۸        | 20                |
|                          |                                       |            | A        | 20                |
|                          |                                       | 48V        | A        | 16                |
|                          |                                       | 60V        | А        | 12                |
|                          |                                       | 110V       | А        | 1                 |
|                          |                                       | 220V       | А        | 0.4               |
|                          |                                       | 440V       | А        | 0.15              |
| Power dissipation        |                                       |            | W        | 0.8               |
| Mechanical features      |                                       |            |          |                   |
| Terminals screw          |                                       |            |          | M3                |
| Tightening torque for te | erminals max                          |            | Nm       | 0.5               |
| Conductor size           |                                       |            |          |                   |
|                          | AWG - Rigid cable                     |            |          |                   |
|                          | AWG - Rigid Cable                     |            | ANA/C    | 20                |
|                          |                                       | min        | AWG      | 20                |
|                          |                                       | Max        | AWG      | 12                |
|                          | AWG - Flexible cable                  |            |          |                   |
|                          |                                       | min        | AWG      | 20                |
|                          |                                       | Max        | AWG      | 14                |
|                          | Conductor size (IEC) - Flexible cable |            |          |                   |
|                          |                                       | min        | mm²      | 0.5               |
|                          |                                       | Max        | mm²      | 2.5               |
|                          | Conductor size (IEC) - Rigid cable    |            |          |                   |
|                          | ·····                                 | min        | mm²      | 0.5               |
|                          |                                       | Max        | mm²      | 2.5               |
| Mechanical life          |                                       | Max        | cycles   | 5x10 <sup>6</sup> |
| UL technical data        |                                       |            | Cycles   | 5710              |
|                          | e e Para e esteril                    |            |          |                   |
| Motor power for direct-  |                                       |            |          |                   |
|                          | for three-phase motor                 |            |          |                   |
|                          |                                       | 120V       | HP       | 1.5               |
|                          |                                       | 240V       | HP       | 3                 |
|                          |                                       | 480V       | HP       | 7.5               |
|                          |                                       | 600V       | HP       | 10                |
|                          | for single-phase motor                |            |          |                   |
|                          |                                       | 120V       | HP       | 0.75              |
|                          |                                       | 240V       | HP       | 2                 |
| Ambient conditions       |                                       | 2407       |          | _<br>             |
| Temperature              |                                       |            |          |                   |
| remperature              | Operating temperature                 |            |          |                   |
|                          | Voeranno remperature                  |            |          |                   |
|                          | operating temperature                 |            | • •      | 05                |
|                          |                                       | min<br>max | °C<br>°C | -25<br>+55        |

Storage temperature

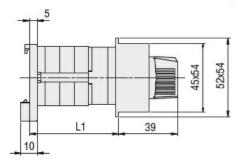
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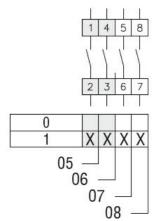
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|                         | min | °C | -40  |
|-------------------------|-----|----|------|
|                         | max | °C | +70  |
| Resistance & Protection |     |    |      |
| Frontal IP degree       |     |    | IP40 |
| Terminals IP degree     |     |    | IP00 |
| Dimensions              |     |    |      |



| Cariaa |      | L1   |      |
|--------|------|------|------|
| Series | 1    | 2    | 3    |
| 7GN12  | 38.1 | 47.8 | 57.5 |
| 7GN20  | 38.1 | 47.8 | 57.5 |
| 7GN25  | 42.5 | 56.1 | 69.7 |

## 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 |                     |                 |
|                     |                     | EC001105 - Off- |

**ETIM 8.0** 

.001105 ΟII load switch