

# ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 1-PHASE MOTOR REVERSING SWITCH WITH SPRING RETURN 40A IN PLASTIC ENCLOSURE 110X110MM WITH BLACK HANDLE

| Product designation                              |  |  |           | Enclosed rotary cam switch                                      |
|--|--|--|-----------|---|
| Product type designation General characteristics |  |  |           | 7GN40   |
| Switching diagram                                |  |  |           | 25 - 1-phase<br>motor reversing<br>switch with spring<br>return |
| N° of elements                                   |  |  |           | 2   |
| Mounting form                                    |  |  |           | P - Plastic<br>enclosure with<br>black handle                   |
| Contact characteristics                          |  |  |           |   |
| Rated insulation voltage                         | e Ui   | 150/51                                     |           |   |
|  |  | IEC/EN                                     | V         | 690   |
| Rated impulse withstar                           | nd voltage Llimp   | UL/CSA                                     | V<br>kV   | 600   |
| Conventional free air th                         | • .  |  | KV        | 6   |
| Conventional free all th                         | ermai current iur  | IEC/EN                                     | Α         | 40  |
|  |  | UL/CSA                                     | A         | 50  |
| Rated operational volta                          | nge  | 0L/00/1                                    | V         | 480   |
| Rated operational impu                           |  |  | kV        | 4   |
|  | short-circuit protection In (gG)                             |  |           |   |
|  | , (3 /   | 10kA                                       | Α         | 40  |
|  |  | 15kA                                       | Α         | 40  |
|  |  | 25kA                                       | Α         | 40  |
|  |  | 50kA                                       | Α         | 40  |
|  |  | 63kA                                       | Α         | 40  |
| Rated short time currer                          | nt Icw   | 1s   | kA        | 1000  |
| Conductivity                                     |  |  |           | 10/5 mA/V   |
| Operational current le                           |  |  |           |   |
|  | AC1/AC21A  |  |           |   |
|  |  |  | A         | 40  |
|  | AC15   | 440)                                       |           |   |
|  |  | 110V                                       | A         | 25  |
|  |  | 220/230V                                   | A         | 22<br>12  |
|  |  | 380/400V<br>660/690V                       | A<br>A    | 2   |
| Rated operational power                          | er in AC   | 000/090 V                                  |           |   |
| rated operational power                          | Three-phase AC-3   |  |           |   |
|  | Times phase rie s  | 220/230V                                   | kW        | 8   |
|  |  | 380/440V                                   | kW        | 15  |
|  |  | 500/690V                                   | kW        | 15  |
|  | Single-phase AC-3  |  |           | _   |
|  |  | 110V                                       | kW        | 3   |
|  |  | 220/230V                                   | kW        | 6.5   |
|  |  | 380/440V                                   | kW        | 8   |
|  | Three-phase AC23A  |  |           |   |
|  |  | 220/230V                                   | kW        | 8   |
|  |  | 380/440V                                   | kW        | 18.5  |
|  | 0'   | 500/690V                                   | kW        | 22  |
|  | Single-phase AC23A   | 110V                                       | kW        | 3   |
| The ebergetoric                                  | atics described in this decument are subject to undeten or m | odifications at any time. The descriptions | technical | and   |



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|                         |                                       | 220/230V | kW         | 6                 |
|-------------------------|---------------------------------------|----------|------------|-------------------|
|                         |                                       | 380/440V | kW         | 11                |
| Rated operational curi  |                                       |          |            |                   |
|                         | DC21A                                 |          |            |                   |
|                         |                                       | 48V      | Α          | 40                |
|                         |                                       | 60V      | Α          | 40                |
|                         |                                       | 110V     | Α          | 6                 |
|                         |                                       | 220V     | Α          | 0.9               |
|                         | DC23A (poles in series)               |          |            |                   |
|                         |                                       | 24V      | Α          | 40 (1)            |
|                         |                                       | 48V      | Α          | 40 (2)            |
|                         |                                       | 60V      | Α          | 40 (3)            |
|                         |                                       | 110V     | Α          | 20 (3)            |
|                         |                                       | 220V     | Α          | 12 (4)            |
|                         | DC13                                  |          |            |                   |
|                         |                                       | 24V      | Α          | 40                |
|                         |                                       | 48V      | Α          | 32                |
|                         |                                       | 60V      | Α          | 16                |
|                         |                                       | 110V     | Α          | 3                 |
| Power dissipation       |                                       |          | W          | 2.0               |
| Mechanical features     |                                       |          |            |                   |
| Terminals screw         |                                       |          |            | M4                |
| Tightening torque for t | terminals max                         |          | Nm         | 1.2               |
| Conductor size          |                                       |          |            |                   |
|                         | AWG - Rigid cable                     |          |            |                   |
|                         |                                       | min      | AWG        | 16                |
|                         |                                       | Max      | AWG        | 8                 |
|                         | AWG - Flexible cable                  |          |            |                   |
|                         | , tive i loxible cable                | min      | AWG        | 16                |
|                         |                                       | Max      | AWG        | 10                |
|                         | Conductor size (IEC) - Flexible cable | Wich     | 71110      | 10                |
|                         | Conductor GIZO (120) Troxible Gable   | min      | mm²        | 1.5               |
|                         |                                       | Max      | mm²        | 6                 |
|                         | Conductor size (IEC) - Rigid cable    | West     |            |                   |
|                         | Conductor size (IEO) - riigid cable   | min      | mm²        | 1.5               |
|                         |                                       | Max      | mm²        | 10                |
| Mechanical life         |                                       | IVICA    | cycles     | 5x10 <sup>6</sup> |
| UL technical data       |                                       |          | Cycles     | 3710              |
| Motor power for direct  | t-on-line control                     |          |            |                   |
| motor power for direct  | for three-phase motor                 |          |            |                   |
|                         | 10. till 00 priddo filotol            | 120V     | HP         | 5                 |
|                         |                                       | 240V     | HP         | 10                |
|                         |                                       | 480V     | HP         | 20                |
|                         |                                       | 600V     | HP         | 20                |
|                         | for single phase mater                | 0007     | ПР         | 20                |
|                         | for single-phase motor                | 4001/    | UП         | 2                 |
|                         |                                       | 120V     | HP         | 2                 |
| Ambient condition       |                                       | 240V     | HP         | 5                 |
| Ambient conditions      |                                       |          |            |                   |
| Temperature             |                                       |          |            |                   |
|                         | Operating temperature                 |          | ^ <b>~</b> | 0.5               |
|                         |                                       | min      | °C         | -25               |
|                         |                                       | max      | °C         | +55               |
|                         | Storage temperature                   |          |            |                   |
|                         |                                       | min      | °C         | -40               |
|                         |                                       |          |            |                   |

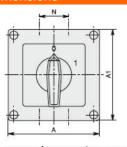


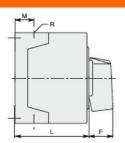
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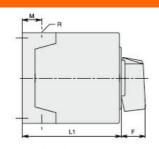
max °C +70

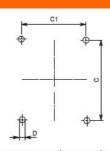
# Resistance & Protection Frontal IP degree IP65 Terminals IP degree IP00

#### **Dimensions**



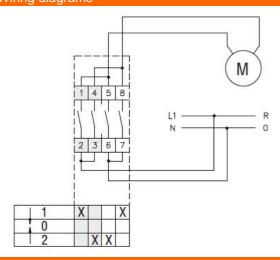






| Series | Enclosure<br>size | Number o | f elements | Dimensions |     |       |        |          |      |        |      | Cable | Protection |   |             |
|--------|-------------------|----------|------------|------------|-----|-------|--------|----------|------|--------|------|-------|------------|---|-------------|
|        |                   | L        | L1         | Α          | A1  | С     | C1     | D        | F    | M      | N    | L     | L1         | entry                                   | degree      |
| 7GN12  | 75x75             | 1-2      | 3 - 4      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN20  |                   | 1-2      | 3 - 4      | 75         | 75  | 50    | 64     | 4.5      | 19   | 14     | 28   | 57.5  | 79.8       | 4xPG13.5                                | IP65        |
| 7GN25  |                   | 1        | 2-3        |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN12  | 90x90             | 1-3      | 4 - 6      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN20  | ]                 | 1-3      | 4 - 6      | 001        |     | 0.000 | 100000 | 10000000 | 2400 | 100000 |      |       |            | 200000000000000000000000000000000000000 | 124000-00-0 |
| 7GN25  |                   | 1-2      | 3 - 4      | 90         | 90  | 79    | 63     | 4.5      | 25   | 19     | 30   | 71.3  | 98.3       | 4xPG16                                  | IP65        |
| 7GN32  |                   | 1-2      | 3 - 4      |            |     | 3.55  |        |          |      | 37-33  |      |       |            |   | 30.00.5550  |
| 7GN40  |                   | 1        | 2-3        |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN12  | 110x110           | 1 - 4    | 5 - 8      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN20  |                   | 1 - 4    | 5 - 8      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN25  |                   | 1-3      | 4 - 5      | 110        | 110 | 98.4  | 83     | 4.5      | 32   | 21     | 39.5 | 85.5  | 119.5      | 4xPG21                                  | IP65        |
| 7GN32  |                   | 1-3      | 4 - 5      | 110        | 110 | 90.4  | 00     | 4.5      | 32   | 21     | 39.5 | 05.5  | 119.5      | 417621                                  | 1100        |
| 7GN40  |                   | 1-2      | 3 - 5      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN63  |                   | 1-2      | 3 - 4      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN32  | 125x175           | 1 - 3    | 4 - 5      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN40  |                   | 1 - 2    | 3 - 4      | 125        | 175 | 146   | 112    | 5.5      | 32   | 21     | 68   | 84.3  | 118.3      | 4xPG21                                  | IP65        |
| 7GN63  |                   | 1 - 2    | 3 - 4      | 123        | 1/5 | 140   | 112    | 5.5      | 32   | 21     | 00   | 04.3  | 110.3      | 2xPG11                                  | 1100        |
| 7GN125 |                   | 1        | 2          |            |     |       |        |          |      | l.     | L.   |       |            |   |             |
| 7GN32  | 180x254           | 1 - 5    | 6 - 8      |            |     |       |        |          |      |        |      |       |            |   |             |
| 7GN40  |                   | 1 - 4    | 5 - 7      | 180        | 254 | 120   | 190    | 5.5      | 32   | 35     | 76   | 121   | 175        | 4xPG29                                  | IP65        |
| 7GN63  | ]                 | 1 - 3    | 4 - 6      | 100        | 204 | 120   | 190    | 5.5      | 32   | 33     | 10   | 121   | 1/5        | 2xPG11                                  | 11-00       |
| 7GN125 |                   | 1 - 2    | 3 - 4      |            |     |       |        |          |      |        |      |       |            |   |             |

## 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



#### 7GN4025P

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**ETIM 8.0** 

EC001029 -Selector switch, complete