



|   |   |      |      |
|---|---|------|------|
| Product designation                                       | Rotary cam switches                     |      |      |
| Product type designation                                  | 7GN63                                   |      |      |
| <b>General characteristics</b>                            |   |      |      |
| Switching diagram   | 92 - ON/OFF switch 4 poles              |      |      |
| N° of elements  | 2                                       |      |      |
| Mounting form   | P - Plastic enclosure with 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                                      | kA   | 1600 |
|   | Conductivity 10/5 mA/V                  |      |      |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A                               |      | A 63 |
|   | AC15                                    |      |      |
| Rated operational power in AC                             | 110V                                    | A    | 32   |
|   | 220/230V                                | A    | 25   |
|   | 380/400V                                | A    | 15   |
|   | 660/690V                                | A    | 4    |
|   | 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

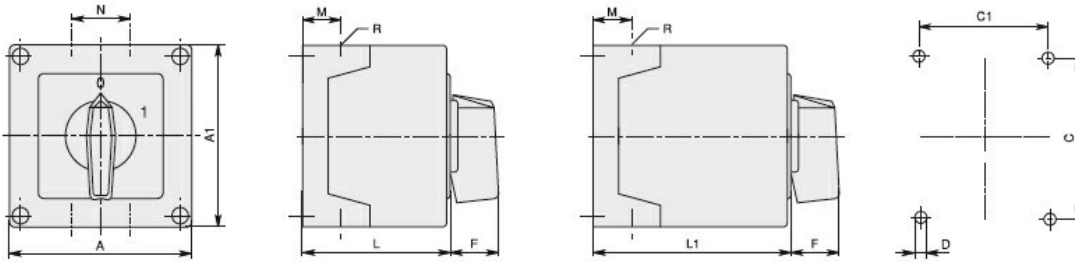
|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

Resistance & Protection

Frontal IP degree IP65

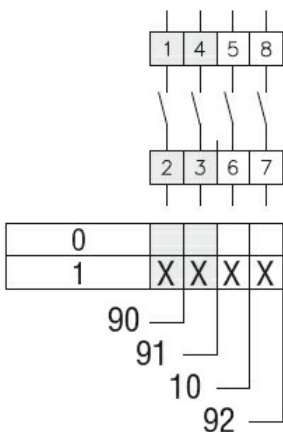
Terminals IP degree IP00

Dimensions



| Series | Enclosure size | Number of elements |     | Dimensions |     |      |     |     |    |    |      |      |       | Cable entry      | Protection degree |
|--------|----------------|--------------------|-----|------------|-----|------|-----|-----|----|----|------|------|-------|------------------|-------------------|
|        |                | L                  | L1  | A          | A1  | C    | C1  | D   | F  | M  | N    | L    | L1    |                  |                   |
| 7GN12  | 75x75          | 1-2                | 3-4 | 75         | 75  | 50   | 64  | 4.5 | 19 | 14 | 28   | 57.5 | 79.8  | 4xPG13.5         | IP65              |
| 7GN20  |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN25  |                | 1                  | 2-3 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN12  | 90x90          | 1-3                | 4-6 | 90         | 90  | 79   | 63  | 4.5 | 25 | 19 | 30   | 71.3 | 98.3  | 4xPG16           | IP65              |
| 7GN20  |                | 1-3                | 4-6 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN25  |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN32  |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN40  |                | 1                  | 2-3 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN12  | 110x110        | 1-4                | 5-8 | 110        | 110 | 98.4 | 83  | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21           | IP65              |
| 7GN20  |                | 1-4                | 5-8 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN25  |                | 1-3                | 4-5 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN32  |                | 1-3                | 4-5 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN40  |                | 1-2                | 3-5 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN63  |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN32  | 125x175        | 1-3                | 4-5 | 125        | 175 | 146  | 112 | 5.5 | 32 | 21 | 68   | 84.3 | 118.3 | 4xPG21<br>2xPG11 | IP65              |
| 7GN40  |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN63  |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN125 |                | 1                  | 2   |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN32  | 180x254        | 1-5                | 6-8 | 180        | 254 | 120  | 190 | 5.5 | 32 | 35 | 76   | 121  | 175   | 4xPG29<br>2xPG11 | IP65              |
| 7GN40  |                | 1-4                | 5-7 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN63  |                | 1-3                | 4-6 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 7GN125 |                | 1-2                | 3-4 |            |     |      |     |     |    |    |      |      |       |                  |                   |

Wiring diagrams



Certifications and compliance

Compliance

IEC/EN/BS 60947-1

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IEC/EN/BS 60947-3

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IEC/EN/BS 60947-5-1

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Certificates

EAC

ETIM classification

ETIM 8.0

EC001105 - Off-  
load switch