



|  |          |    |   |
|--|----------|----|---|
| Product designation                                    |          |    | Rotary cam switches                     |
| Product type designation                               |          |    | 7GN63                                   |
| General characteristics                                |          |    |   |
| Switching diagram                                      |          |    | 75 - Changeover switch 4 poles          |
| N° of elements   |          |    | 4                                       |
| Mounting form  |          |    | P - Plastic enclosure with black handle |
| Contact characteristics                                |          |    |   |
| Rated insulation voltage Ui                            |          |    |   |
|  | IEC/EN   | V  | 690                                     |
|  | UL/CSA   | V  | 600                                     |
| Rated impulse withstand voltage Uimp                   |          |    | kV 6                                    |
| Conventional free air thermal current Ith              |          |    |   |
|  | 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 In (gG) |          |    |   |
|  | 10kA     | A  | 63                                      |
|  | 15kA     | A  | 63                                      |
|  | 25kA     | A  | 63                                      |
|  | 50kA     | A  | 63                                      |
|  | 63kA     | A  | 63                                      |
| Rated short time current Icw                           |          |    |   |
|  | 1s       | kA | 1600                                    |
| Conductivity   |          |    | 10/5 mA/V                               |
| Operational current Ie 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               |
| Mechanical features                    |          |                 |                   |
| 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> |
| UL technical data                      |          |                 |                   |
| 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                |
| Ambient conditions                     |          |                 |                   |

## Temperature

### Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -25 |
| max | °C | +55 |

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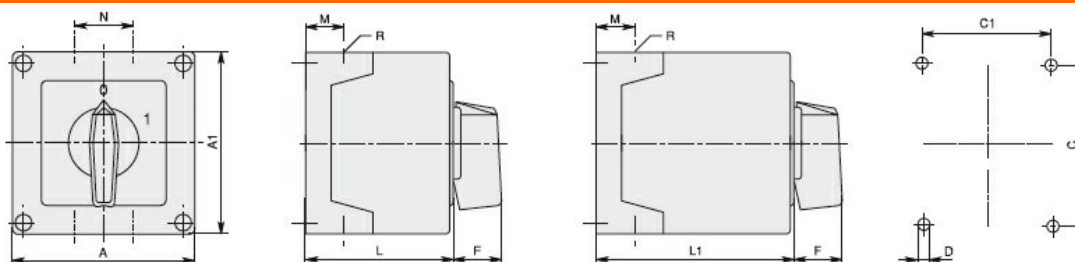
Storage temperature

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

## Resistance & Protection

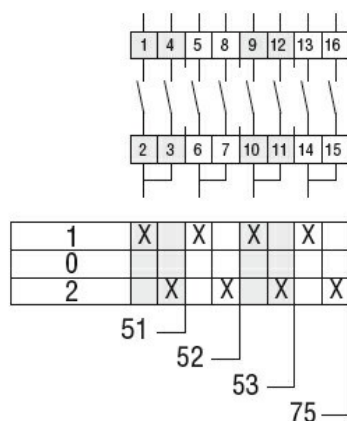
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP00 |

## 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

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 4 POLES 63A IN  
PLASTIC ENCLOSURE 125X175MM WITH BLACK HANDLE

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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