

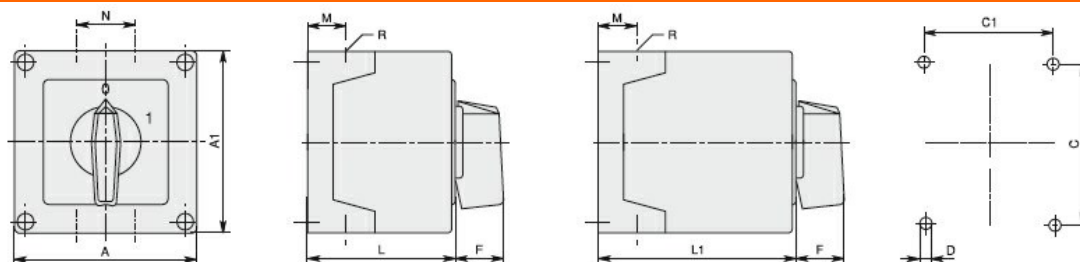
|                                                        |                                         |    |      |
|--------------------------------------------------------|-----------------------------------------|----|------|
| Product designation                                    | Enclosed rotary cam switch              |    |      |
| Product type designation                               | 7GN125                                  |    |      |
| General characteristics                                |                                         |    |      |
| Switching diagram                                      | 107 - Multi-step 0-1-2 1 pole           |    |      |
| N° of elements                                         | 1                                       |    |      |
| 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  | 125  |
|                                                        | UL/CSA                                  | A  | 130  |
| Rated operational voltage                              |                                         | V  | 690  |
| Rated operational impulse voltage                      |                                         | kV | 6    |
| Maximum fuse size for short-circuit protection In (gG) | 10kA                                    | A  | 125  |
|                                                        | 15kA                                    | A  | 100  |
|                                                        | 25kA                                    | A  | 100  |
|                                                        | 50kA                                    | A  | 100  |
|                                                        | 63kA                                    | A  | 100  |
| Rated short time current Icw                           | 1s                                      | kA | 2100 |
| Conductivity                                           | 10/5 mA/V                               |    |      |
| Operational current Ie IEC/EN                          |                                         |    |      |
| AC1/AC21A                                              |                                         | A  | 125  |
| AC15                                                   | 110V                                    | A  | 40   |
|                                                        | 220/230V                                | A  | 28   |
|                                                        | 380/400V                                | A  | 15   |
|                                                        | 660/690V                                | A  | 5    |
| Rated operational power in AC                          |                                         |    |      |
| Three-phase AC-3                                       | 220/230V                                | kW | 18.5 |
|                                                        | 380/440V                                | kW | 37   |
|                                                        | 500/690V                                | kW | 33   |
| Single-phase AC-3                                      | 110V                                    | kW | 5    |
|                                                        | 220/230V                                | kW | 11   |
|                                                        | 380/440V                                | kW | 15   |
| Three-phase AC23A                                      | 220/230V                                | kW | 30   |
|                                                        | 380/440V                                | kW | 45   |
|                                                        | 500/690V                                | kW | 37   |
| Single-phase AC23A                                     | 110V                                    | kW | 5    |
|                                                        | 220/230V                                | kW | 11   |

|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 380/440V | kW              | 15                |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  |          |                 |                   |
|                                        |  | 48V      | A               | 125               |
|                                        |  | 60V      | A               | 80                |
|                                        |  | 110V     | A               | 10                |
|                                        |  | 220V     | A               | 1.2               |
| DC23A (poles in series)                |  |          |                 |                   |
|                                        |  | 24V      | A               | 125 (1)           |
|                                        |  | 48V      | A               | 125 (2)           |
|                                        |  | 60V      | A               | 125 (3)           |
|                                        |  | 110V     | A               | 50 (3)            |
|                                        |  | 220V     | A               | 20 (4)            |
| DC13                                   |  |          |                 |                   |
|                                        |  | 24V      | A               | 125               |
|                                        |  | 48V      | A               | 100               |
|                                        |  | 60V      | A               | 50                |
|                                        |  | 110V     | A               | 4                 |
| Power dissipation                      |  |          | W               | 6.3               |
| Mechanical features                    |  |          |                 |                   |
| Terminals screw                        |  |          |                 | M2X5              |
| Tightening torque for terminals max    |  |          | Nm              | 2                 |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  |          |                 |                   |
|                                        |  | min      | AWG             | 14                |
|                                        |  | Max      | AWG             | 1/0               |
| AWG - Flexible cable                   |  |          |                 |                   |
|                                        |  | min      | AWG             | 14                |
|                                        |  | Max      | AWG             | 1/0               |
| Conductor size (IEC) - Flexible cable  |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 2.5               |
|                                        |  | Max      | mm <sup>2</sup> | 50                |
| Conductor size (IEC) - Rigid cable     |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 2.5               |
|                                        |  | Max      | mm <sup>2</sup> | 50                |
| Mechanical life                        |  |          | cycles          | 1X10 <sup>6</sup> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  |          |                 |                   |
|                                        |  | 120V     | HP              | 15                |
|                                        |  | 240V     | HP              | 25                |
|                                        |  | 480V     | HP              | 50                |
|                                        |  | 600V     | HP              | 40                |
| for single-phase motor                 |  |          |                 |                   |
|                                        |  | 120V     | HP              | 5                 |
|                                        |  | 240V     | HP              | 15                |
| Ambient conditions                     |  |          |                 |                   |
| Temperature                            |  |          |                 |                   |
| Operating temperature                  |  |          |                 |                   |
|                                        |  | min      | °C              | -25               |
|                                        |  | max      | °C              | +55               |
| Storage temperature                    |  |          |                 |                   |
|                                        |  | min      | °C              | -40               |
|                                        |  | max      | °C              | +70               |

## Resistance & Protection

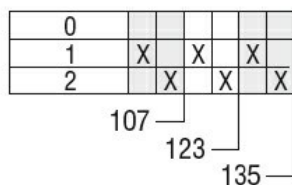
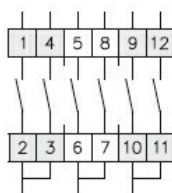
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP00 |

## 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  | 110x110        | 1                  | 2-3 | 110        | 110 | 98.4 | 83  | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21           | IP65              |
| 7GN12  |                | 1-4                | 5-8 |            |     |      |     |     |    |    |      |      |       |                  |                   |
| 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  
IEC/EN/BS 60947-3  
IEC/EN/BS 60947-5-1

### Certificates

EAC

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2, 1 POLE 125A IN  
PLASTIC ENCLOSURE 180X254MM WITH BLACK HANDLE