

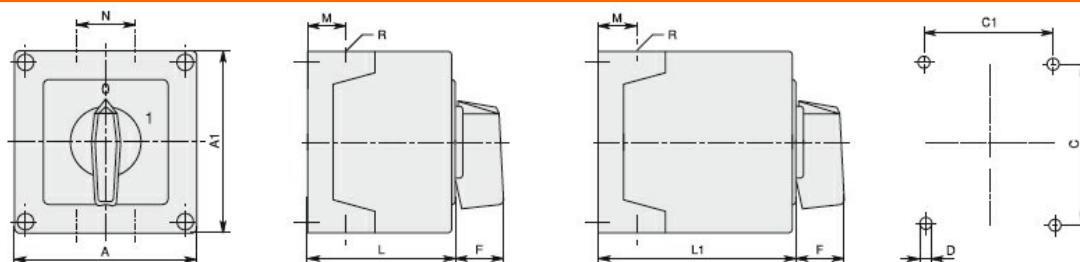
|                                                        |                                          |                       |                                 |
|--------------------------------------------------------|------------------------------------------|-----------------------|---------------------------------|
| Product designation                                    | Enclosed rotary cam switch               |                       |                                 |
| Product type designation                               | 7GN125                                   |                       |                                 |
| General characteristics                                |                                          |                       |                                 |
| Switching diagram                                      | 124 - Multi-step<br>0-1-2-3 2 poles      |                       |                                 |
| N° of elements                                         | 3                                        |                       |                                 |
| Mounting form                                          | P - Plastic enclosure with black handle  |                       |                                 |
| Contact characteristics                                |                                          |                       |                                 |
| Rated insulation voltage Ui                            | IEC/EN<br>UL/CSA                         | V<br>V                | 690<br>600                      |
| Rated impulse withstand voltage Uimp                   |                                          | kV                    | 6                               |
| Conventional free air thermal current Ith              | IEC/EN<br>UL/CSA                         | A<br>A                | 125<br>130                      |
| Rated operational voltage                              |                                          | V                     | 690                             |
| Rated operational impulse voltage                      |                                          | kV                    | 6                               |
| Maximum fuse size for short-circuit protection In (gG) | 10kA<br>15kA<br>25kA<br>50kA<br>63kA     | A<br>A<br>A<br>A<br>A | 125<br>100<br>100<br>100<br>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<br>220/230V<br>380/400V<br>660/690V | A<br>A<br>A<br>A      | 40<br>28<br>15<br>5             |
| Rated operational power in AC                          |                                          |                       |                                 |
| Three-phase AC-3                                       | 220/230V<br>380/440V<br>500/690V         | kW<br>kW<br>kW        | 18.5<br>37<br>33                |
| Single-phase AC-3                                      | 110V<br>220/230V<br>380/440V             | kW<br>kW<br>kW        | 5<br>11<br>15                   |
| Three-phase AC23A                                      | 220/230V<br>380/440V<br>500/690V         | kW<br>kW<br>kW        | 30<br>45<br>37                  |
| Single-phase AC23A                                     | 110V<br>220/230V                         | kW<br>kW              | 5<br>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

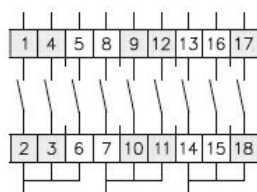
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP00 |

## 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



|   |   |   |   |   |   |   |   |   |  |   |  |  |  |  |   |  |
|---|---|---|---|---|---|---|---|---|--|---|--|--|--|--|---|--|
| 0 |   |   |   |   |   |   |   |   |  |   |  |  |  |  |   |  |
| 1 | X |   |   |   | X |   | X |   |  |   |  |  |  |  |   |  |
| 2 |   |   | X | X |   |   |   |   |  |   |  |  |  |  | X |  |
| 3 |   | X |   |   |   | X |   | X |  | X |  |  |  |  |   |  |

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## 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