

|                                                        |  |  |                                      |     |      |
|--------------------------------------------------------|--|--|--------------------------------------|-----|------|
| Product designation                                    |  |  | Rotary cam switches                  |     |      |
| Product type designation                               |  |  | 7GN125                               |     |      |
| General characteristics                                |  |  |                                      |     |      |
| Switching diagram                                      |  |  | 08 - ON/OFF switch 4 poles           |     |      |
| N° of elements                                         |  |  | 2                                    |     |      |
| Mounting form                                          |  |  | U - Front mounting 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   |

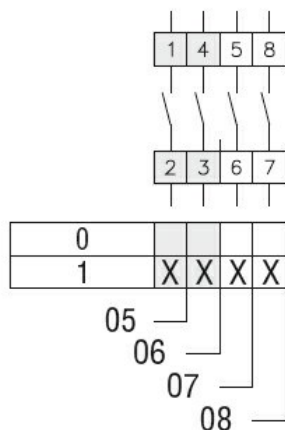
|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 380/440V | kW              | 15                |
| Rated operational 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   | IP40 |
| Terminals IP degree | IP00 |

## Dimensions

## Wiring diagrams



## Certifications and compliance

### Compliance

CSA C22.2 n° 14  
IEC/EN/BS 60947-1  
IEC/EN/BS 60947-3  
IEC/EN/BS 60947-5-1  
UL60947-4-1

### Certificates

EAC  
UL

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete