

|                                                        |                                      |    |      |
|--------------------------------------------------------|--------------------------------------|----|------|
| Product designation                                    | Rotary cam switches                  |    |      |
| Product type designation                               | 7GN40                                |    |      |
| General characteristics                                |                                      |    |      |
| Switching diagram                                      | 06 - ON/OFF switch 2 poles           |    |      |
| N° of elements                                         | 1                                    |    |      |
| 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  | 40   |
|                                                        | UL/CSA                               | A  | 50   |
| Rated operational voltage                              |                                      | V  | 480  |
| Rated operational impulse voltage                      |                                      | kV | 4    |
| Maximum fuse size for short-circuit protection In (gG) | 10kA                                 | A  | 40   |
|                                                        | 15kA                                 | A  | 40   |
|                                                        | 25kA                                 | A  | 40   |
|                                                        | 50kA                                 | A  | 40   |
|                                                        | 63kA                                 | A  | 40   |
| Rated short time current Icw                           | 1s                                   | kA | 1000 |
| Conductivity                                           | 10/5 mA/V                            |    |      |
| Operational current Ie IEC/EN                          |                                      |    |      |
| AC1/AC21A                                              |                                      | A  | 40   |
| AC15                                                   | 110V                                 | A  | 25   |
|                                                        | 220/230V                             | A  | 22   |
|                                                        | 380/400V                             | A  | 12   |
|                                                        | 660/690V                             | A  | 2    |
| Rated operational power in AC                          |                                      |    |      |
| Three-phase AC-3                                       | 220/230V                             | kW | 8    |
|                                                        | 380/440V                             | kW | 15   |
|                                                        | 500/690V                             | kW | 15   |
| Single-phase AC-3                                      | 110V                                 | kW | 3    |
|                                                        | 220/230V                             | kW | 6.5  |
|                                                        | 380/440V                             | kW | 8    |
| Three-phase AC23A                                      | 220/230V                             | kW | 8    |
|                                                        | 380/440V                             | kW | 18.5 |
|                                                        | 500/690V                             | kW | 22   |
| Single-phase AC23A                                     | 110V                                 | kW | 3    |
|                                                        | 220/230V                             | kW | 6    |

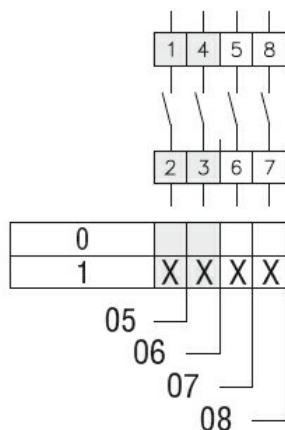
|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 380/440V | kW              | 11                |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  |          |                 |                   |
|                                        |  | 48V      | A               | 40                |
|                                        |  | 60V      | A               | 40                |
|                                        |  | 110V     | A               | 6                 |
|                                        |  | 220V     | A               | 0.9               |
| DC23A (poles in series)                |  |          |                 |                   |
|                                        |  | 24V      | A               | 40 (1)            |
|                                        |  | 48V      | A               | 40 (2)            |
|                                        |  | 60V      | A               | 40 (3)            |
|                                        |  | 110V     | A               | 20 (3)            |
|                                        |  | 220V     | A               | 12 (4)            |
| DC13                                   |  |          |                 |                   |
|                                        |  | 24V      | A               | 40                |
|                                        |  | 48V      | A               | 32                |
|                                        |  | 60V      | A               | 16                |
|                                        |  | 110V     | A               | 3                 |
| Power dissipation                      |  |          | W               | 2.0               |
| Mechanical features                    |  |          |                 |                   |
| Terminals screw                        |  |          |                 | M4                |
| Tightening torque for terminals max    |  |          | Nm              | 1.2               |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  |          |                 |                   |
|                                        |  | min      | AWG             | 16                |
|                                        |  | Max      | AWG             | 8                 |
| AWG - Flexible cable                   |  |          |                 |                   |
|                                        |  | min      | AWG             | 16                |
|                                        |  | Max      | AWG             | 10                |
| Conductor size (IEC) - Flexible cable  |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 1.5               |
|                                        |  | Max      | mm <sup>2</sup> | 6                 |
| Conductor size (IEC) - Rigid cable     |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 1.5               |
|                                        |  | Max      | mm <sup>2</sup> | 10                |
| Mechanical life                        |  |          | cycles          | 5x10 <sup>6</sup> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  |          |                 |                   |
|                                        |  | 120V     | HP              | 5                 |
|                                        |  | 240V     | HP              | 10                |
|                                        |  | 480V     | HP              | 20                |
|                                        |  | 600V     | HP              | 20                |
| for single-phase motor                 |  |          |                 |                   |
|                                        |  | 120V     | HP              | 2                 |
|                                        |  | 240V     | HP              | 5                 |
| 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

cCSAus  
EAC  
UL

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete