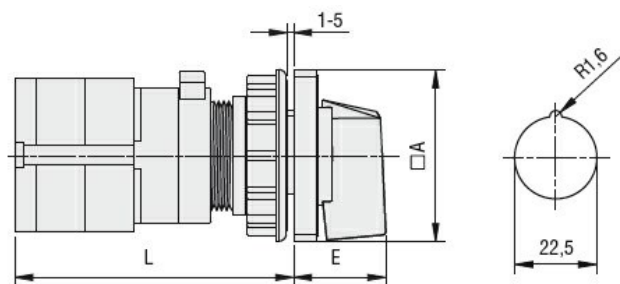




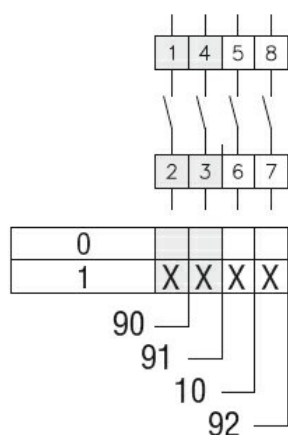
|                                                        |  |  |                                                                                       |                                       |
|--------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|---------------------------------------|
| Product designation                                    |  |  | Rotary cam switches                                                                   |                                       |
| Product type designation                               |  |  | GF10                                                                                  |                                       |
| General characteristics                                |  |  |                                                                                       |                                       |
| Switching diagram                                      |  |  | 91 - ON/OFF switch 2 poles                                                            |                                       |
| N° of elements                                         |  |  | 1                                                                                     |                                       |
| Mounting form                                          |  |  | U47 - Snap on<br>fron mounting<br>with black handle<br>for hole diam.<br>22mm finxing |                                       |
| Contact characteristics                                |  |  |                                                                                       |                                       |
| Rated insulation voltage Ui                            |  |  | IEC/EN<br>UL/CSA                                                                      | V<br>V<br>480<br>240                  |
| Rated impulse withstand voltage Uimp                   |  |  | kV                                                                                    | 4                                     |
| Conventional free air thermal current Ith              |  |  | IEC/EN<br>UL/CSA                                                                      | A<br>A<br>10<br>10                    |
| Rated operational voltage                              |  |  | V                                                                                     | 480                                   |
| Rated operational impulse voltage                      |  |  | kV                                                                                    | 4                                     |
| Maximum fuse size for short-circuit protection In (gG) |  |  | 10kA                                                                                  | A<br>16                               |
| Rated short time current Icw                           |  |  | 1s                                                                                    | kA<br>250                             |
| Conductivity                                           |  |  | 10/5 mA/V                                                                             |                                       |
| Operational current Ie IEC/EN                          |  |  |                                                                                       |                                       |
| AC1/AC21A                                              |  |  | A                                                                                     | 10                                    |
| AC15                                                   |  |  | 110V<br>220/230V<br>380/400V                                                          | A<br>A<br>A<br>5<br>3<br>2            |
| Rated operational power in AC                          |  |  |                                                                                       |                                       |
| Three-phase AC-3                                       |  |  | 220/230V<br>380/440V                                                                  | kW<br>kW<br>1.5<br>2.2                |
| Single-phase AC-3                                      |  |  | 110V<br>220/230V<br>380/440V                                                          | kW<br>kW<br>kW<br>0.3<br>0.55<br>0.75 |
| Three-phase AC23A                                      |  |  | 220/230V<br>380/440V                                                                  | kW<br>kW<br>1.8<br>3                  |
| Single-phase AC23A                                     |  |  |                                                                                       |                                       |

|                                        |          |                 |                   |
|----------------------------------------|----------|-----------------|-------------------|
|                                        | 110V     | kW              | 0.7               |
|                                        | 220/230V | kW              | 0.75              |
|                                        | 380/440V | kW              | 1.1               |
| Rated operational current in DC        |          |                 |                   |
| DC21A                                  |          |                 |                   |
|                                        | 48V      | A               | 10                |
|                                        | 60V      | A               | 7                 |
|                                        | 110V     | A               | 2                 |
|                                        | 220V     | A               | 0.7               |
|                                        | 440V     | A               | 0.2               |
| DC13                                   |          |                 |                   |
|                                        | 24V      | A               | 3                 |
|                                        | 48V      | A               | 3                 |
|                                        | 60V      | A               | 2                 |
|                                        | 110V     | A               | 1                 |
|                                        | 220V     | A               | 0.3               |
|                                        | 440V     | A               | 0.1               |
| Power dissipation                      |          | W               | 0.4               |
| Mechanical features                    |          |                 |                   |
| Terminals screw                        |          |                 | 2.5M              |
| Tightening torque for terminals max    |          | Nm              | 0.4               |
| Conductor size                         |          |                 |                   |
| AWG - Rigid cable                      |          |                 |                   |
|                                        | min      | AWG             | 20                |
|                                        | Max      | AWG             | 14                |
| AWG - Flexible cable                   |          |                 |                   |
|                                        | min      | AWG             | 20                |
|                                        | Max      | AWG             | 14                |
| Conductor size (IEC) - Flexible cable  |          |                 |                   |
|                                        | min      | mm <sup>2</sup> | 0.5               |
|                                        | Max      | mm <sup>2</sup> | 1.5               |
| Conductor size (IEC) - Rigid cable     |          |                 |                   |
|                                        | min      | mm <sup>2</sup> | 0.5               |
|                                        | Max      | mm <sup>2</sup> | 1.5               |
| Mechanical life                        |          | cycles          | 1x10 <sup>6</sup> |
| UL technical data                      |          |                 |                   |
| Motor power for direct-on-line control |          |                 |                   |
| for three-phase motor                  |          |                 |                   |
|                                        | 240V     | HP              | 2                 |
| for single-phase motor                 |          |                 |                   |
|                                        | 240V     | HP              | 0.75              |
| 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                    |          |                 | IP20              |
| Dimensions                             |          |                 |                   |



| Series | Dimensions |      | L  |      |       |       |
|--------|------------|------|----|------|-------|-------|
|        | □A         | E    | 1  | 2    | 3...8 |       |
| GF10   | 30         | 18.5 | 60 | 72   | 84    | 144   |
| GF20   | 48         | 26.5 | 56 | 69.5 | 83    | 150.5 |

## 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

cULus

EAC

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete