



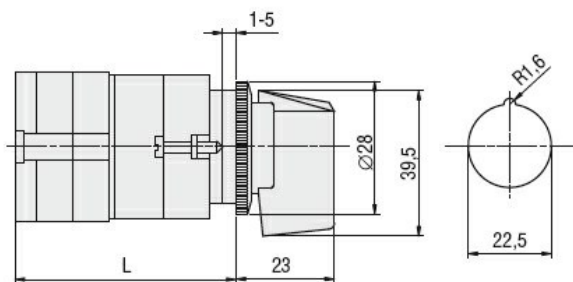
|                                                        |  |  |                                                                                       |     |     |
|--------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|-----|-----|
| Product designation                                    |  |  | Rotary cam switches                                                                   |     |     |
| Product type designation                               |  |  | GF20                                                                                  |     |     |
| General characteristics                                |  |  |                                                                                       |     |     |
| Switching diagram                                      |  |  | 10 - ON/OFF switch 3 poles                                                            |     |     |
| N° of elements                                         |  |  | 2                                                                                     |     |     |
| Mounting form                                          |  |  | U11 - Front mounting with black handle without front plate for hole diam. 22mm fixing |     |     |
| Contact characteristics                                |  |  |                                                                                       |     |     |
| Rated insulation voltage Ui                            |  |  | IEC/EN                                                                                | V   | 480 |
|                                                        |  |  | UL/CSA                                                                                | V   | 240 |
| Rated impulse withstand voltage Uimp                   |  |  | kV                                                                                    | 4   |     |
| Conventional free air thermal current Ith              |  |  | IEC/EN                                                                                | A   | 20  |
|                                                        |  |  | UL/CSA                                                                                | A   | 15  |
| Rated operational voltage                              |  |  | V                                                                                     | 480 |     |
| Rated operational impulse voltage                      |  |  | kV                                                                                    | 4   |     |
| Maximum fuse size for short-circuit protection In (gG) |  |  | 10kA                                                                                  | A   | 20  |
|                                                        |  |  | 15kA                                                                                  | A   | 20  |
|                                                        |  |  | 25kA                                                                                  | A   | 20  |
| Rated short time current Icw                           |  |  | 1s                                                                                    | kA  | 250 |
| Conductivity                                           |  |  | 10/5 mA/V                                                                             |     |     |
| Operational current Ie IEC/EN                          |  |  |                                                                                       |     |     |
| AC1/AC21A                                              |  |  | A                                                                                     | 20  |     |
| AC15                                                   |  |  | 110V                                                                                  | A   | 10  |
|                                                        |  |  | 220/230V                                                                              | A   | 8   |
|                                                        |  |  | 380/400V                                                                              | A   | 6   |
| Rated operational power in AC                          |  |  |                                                                                       |     |     |
| Three-phase AC-3                                       |  |  | 220/230V                                                                              | kW  | 3   |
|                                                        |  |  | 380/440V                                                                              | kW  | 5   |
| Single-phase AC-3                                      |  |  | 110V                                                                                  | kW  | 0.5 |
|                                                        |  |  | 220/230V                                                                              | kW  | 1.5 |
|                                                        |  |  | 380/440V                                                                              | kW  | 2   |
| Three-phase AC23A                                      |  |  |                                                                                       |     |     |

|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 220/230V | kW              | 4                 |
|                                        |  | 380/440V | kW              | 7.5               |
| Single-phase AC23A                     |  |          |                 |                   |
|                                        |  | 110V     | kW              | 0.75              |
|                                        |  | 220/230V | kW              | 2                 |
|                                        |  | 380/440V | kW              | 2.5               |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  |          |                 |                   |
|                                        |  | 48V      | A               | 20                |
|                                        |  | 60V      | A               | 20                |
|                                        |  | 110V     | A               | 4                 |
|                                        |  | 220V     | A               | 0.7               |
|                                        |  | 440V     | A               | 0.2               |
| DC13                                   |  |          |                 |                   |
|                                        |  | 24V      | A               | 6                 |
|                                        |  | 48V      | A               | 6                 |
|                                        |  | 60V      | A               | 3                 |
|                                        |  | 110V     | A               | 1                 |
|                                        |  | 220V     | A               | 0.4               |
|                                        |  | 440V     | A               | 0.15              |
| Power dissipation                      |  |          | W               | 0.8               |
| Mechanical features                    |  |          |                 |                   |
| Terminals screw                        |  |          | M3              |                   |
| Tightening torque for terminals max    |  |          | Nm              | 0.5               |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  |          |                 |                   |
|                                        |  | min      | AWG             | 20                |
|                                        |  | Max      | AWG             | 12                |
| AWG - Flexible cable                   |  |          |                 |                   |
|                                        |  | min      | AWG             | 20                |
|                                        |  | Max      | AWG             | 12                |
| Conductor size (IEC) - Flexible cable  |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 0.5               |
|                                        |  | Max      | mm <sup>2</sup> | 2.5               |
| Conductor size (IEC) - Rigid cable     |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 0.5               |
|                                        |  | Max      | mm <sup>2</sup> | 2.5               |
| Mechanical life                        |  |          | cycles          | 1x10 <sup>6</sup> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  |          |                 |                   |
|                                        |  | 240V     | HP              | 3                 |
| for single-phase motor                 |  |          |                 |                   |
|                                        |  | 240V     | HP              | 1                 |
| 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

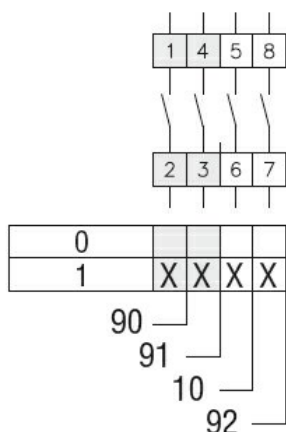
IP20

## Dimensions



| Series      | L    |    |       |     |
|-------------|------|----|-------|-----|
|             | 1    | 2  | 3...8 |     |
| <b>GF20</b> | 54.5 | 68 | 81.5  | 203 |

## 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