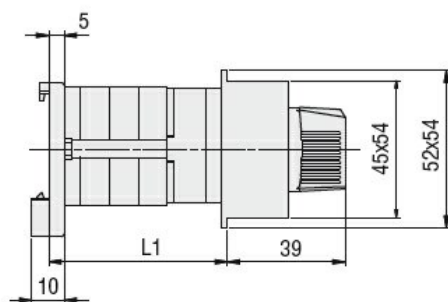


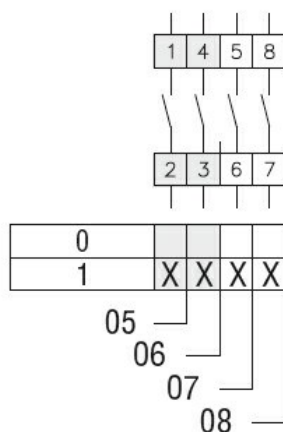
|                                                        |                                                                          |                |                  |
|--------------------------------------------------------|--------------------------------------------------------------------------|----------------|------------------|
| Product designation                                    | Rotary cam switches                                                      |                |                  |
| Product type designation                               | GF20                                                                     |                |                  |
| General characteristics                                |                                                                          |                |                  |
| Switching diagram                                      | 06 - ON/OFF switch 2 poles                                               |                |                  |
| N° of elements                                         | 1                                                                        |                |                  |
| Mounting form                                          | O48 - Modular service cover for 35mm din rail mounting with black handle |                |                  |
| Contact characteristics                                |                                                                          |                |                  |
| Rated insulation voltage Ui                            | IEC/EN<br>UL/CSA                                                         | V<br>V         | 480<br>240       |
| Rated impulse withstand voltage Uimp                   |                                                                          | kV             | 4                |
| Conventional free air thermal current Ith              | IEC/EN<br>UL/CSA                                                         | A<br>A         | 20<br>15         |
| Rated operational voltage                              |                                                                          | V              | 480              |
| Rated operational impulse voltage                      |                                                                          | kV             | 4                |
| Maximum fuse size for short-circuit protection In (gG) | 10kA<br>15kA<br>25kA                                                     | A<br>A<br>A    | 20<br>20<br>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<br>220/230V<br>380/400V                                             | A<br>A<br>A    | 10<br>8<br>6     |
| Rated operational power in AC                          |                                                                          |                |                  |
| Three-phase AC-3                                       | 220/230V<br>380/440V                                                     | kW<br>kW       | 3<br>5           |
| Single-phase AC-3                                      | 110V<br>220/230V<br>380/440V                                             | kW<br>kW<br>kW | 0.5<br>1.5<br>2  |
| Three-phase AC23A                                      | 220/230V<br>380/440V                                                     | kW<br>kW       | 4<br>7.5         |
| Single-phase AC23A                                     | 110V<br>220/230V<br>380/440V                                             | kW<br>kW<br>kW | 0.75<br>2<br>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 | L1 |      |    |
|--------|----|------|----|
|        | 1  | 2    | 3  |
| GF20   | 40 | 53.5 | 67 |

## 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