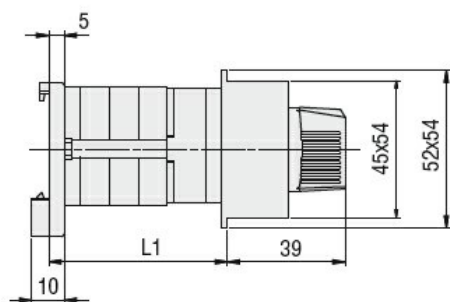


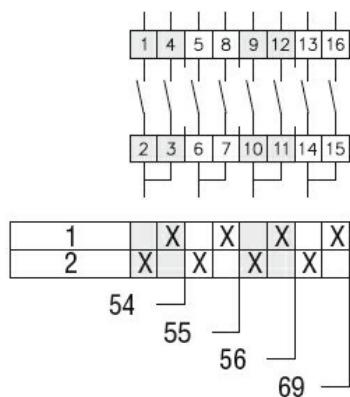
|                                                        |                                                                          |     |           |
|--------------------------------------------------------|--------------------------------------------------------------------------|-----|-----------|
| Product designation                                    | Rotary cam switches                                                      |     |           |
| Product type designation                               | GF20                                                                     |     |           |
| General characteristics                                |                                                                          |     |           |
| Switching diagram                                      | 69 - Changeover switch without 0 4 poles                                 |     |           |
| N° of elements                                         | 4                                                                        |     |           |
| Mounting form                                          | O48 - Modular service cover for 35mm din rail mounting with black handle |     |           |
| 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       |
|                                                        |                                                                          |     | 10/5 mA/V |
| Conductivity                                           |                                                                          |     |           |
| 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 | 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