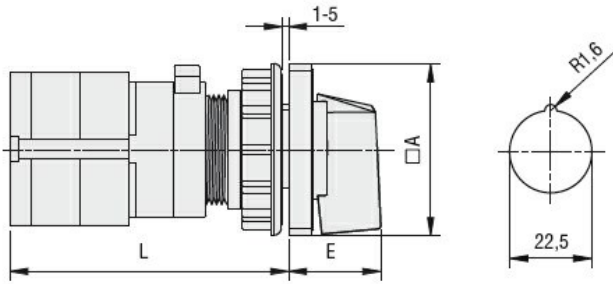


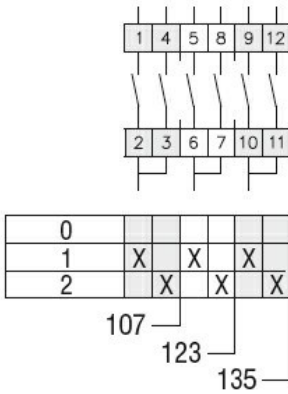
|   |                  |    |           |   |
|---|------------------|----|-----------|---|
| Product designation                                       |                  |    |           | Rotary cam switches   |
| Product type designation                                  |                  |    |           | GF20  |
| <b>General characteristics</b>                            |                  |    |           |   |
| Switching diagram   |                  |    |           | 107 - Multi-step 0-1-2 1 pole   |
| N° of elements  |                  |    |           | 1   |
| Mounting form   |                  |    |           | U47 - Snap on front mounting with black handle for hole diam. 22mm fixing |
| <b>Contact characteristics</b>                            |                  |    |           |   |
| Rated insulation voltage $U_i$                            | IEC/EN           | V  | 480       |   |
|   | UL/CSA           | V  | 240       |   |
| Rated impulse withstand voltage $U_{imp}$                 |                  | kV | 4         |   |
| Conventional free air thermal current $I_{th}$            | 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 $I_n$ (gG) | 10kA             | A  | 20        |   |
|   | 15kA             | A  | 20        |   |
|   | 25kA             | A  | 20        |   |
| Rated short time current $I_{cw}$                         |                  |    |           |   |
|   | 1s               | A  | 250       |   |
| Conductivity  |                  |    | 10/5 mA/V |   |
| Operational current $I_e$ 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               |
| <hr/>                                  |                                       |      |                 |                   |
| DC13                                   |                                       | 24V  | A               | 6                 |
|  |                                       | 48V  | A               | 6                 |
|  |                                       | 60V  | A               | 3                 |
|  |                                       | 110V | A               | 1                 |
|  |                                       | 220V | A               | 0.4               |
|  |                                       | 440V | A               | 0.15              |
| <hr/>                                  |                                       |      |                 |                   |
| Power dissipation                      |                                       |      | W               | 0.8               |
| <b>Mechanical features</b>             |                                       |      |                 |                   |
| Terminals screw                        |                                       |      |                 | M3                |
| Tightening torque for terminals max    |                                       |      | Nm              | 0.5               |
| <hr/>                                  |                                       |      |                 |                   |
| Conductor size                         |                                       |      |                 |                   |
|  | AWG - Rigid cable                     |      |                 |                   |
|  |                                       | min  | AWG             | 20                |
|  |                                       | Max  | AWG             | 12                |
| <hr/>                                  |                                       |      |                 |                   |
|  | AWG - Flexible cable                  |      |                 |                   |
|  |                                       | min  | AWG             | 20                |
|  |                                       | Max  | AWG             | 12                |
| <hr/>                                  |                                       |      |                 |                   |
|  | Conductor size (IEC) - Flexible cable |      |                 |                   |
|  |                                       | min  | mm <sup>2</sup> | 0.5               |
|  |                                       | Max  | mm <sup>2</sup> | 2.5               |
| <hr/>                                  |                                       |      |                 |                   |
|  | Conductor size (IEC) - Rigid cable    |      |                 |                   |
|  |                                       | min  | mm <sup>2</sup> | 0.5               |
|  |                                       | Max  | mm <sup>2</sup> | 2.5               |
| <hr/>                                  |                                       |      |                 |                   |
| Mechanical life                        |                                       |      | cycles          | 1x10 <sup>6</sup> |
| <b>UL technical data</b>               |                                       |      |                 |                   |
| Motor power for direct-on-line control |                                       |      |                 |                   |
|  | for three-phase motor                 |      |                 |                   |
|  |                                       | 240V | HP              | 3                 |
| <hr/>                                  |                                       |      |                 |                   |
|  | for single-phase motor                |      |                 |                   |
|  |                                       | 240V | HP              | 1                 |
| <hr/>                                  |                                       |      |                 |                   |
| <b>Ambient conditions</b>              |                                       |      |                 |                   |
| Temperature                            |                                       |      |                 |                   |
|  | Operating temperature                 |      |                 |                   |
|  |                                       | min  | °C              | -25               |
|  |                                       | max  | °C              | +55               |
| <hr/>                                  |                                       |      |                 |                   |
|  | Storage temperature                   |      |                 |                   |
|  |                                       | min  | °C              | -40               |
|  |                                       | max  | °C              | +70               |
| <hr/>                                  |                                       |      |                 |                   |
| <b>Resistance &amp; Protection</b>     |                                       |      |                 |                   |
| Frontal IP degree                      |                                       |      |                 | IP40              |
| Terminals IP degree                    |                                       |      |                 | IP20              |
| <hr/>                                  |                                       |      |                 |                   |
| <b>Dimensions</b>                      |                                       |      |                 |                   |



| 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