

|                                                        |                                                                                        |                |                  |
|--------------------------------------------------------|----------------------------------------------------------------------------------------|----------------|------------------|
| Product designation                                    | Rotary cam switches                                                                    |                |                  |
| Product type designation                               | GF20                                                                                   |                |                  |
| General characteristics                                |                                                                                        |                |                  |
| Switching diagram                                      | 05 - ON/OFF switch 1 pole                                                              |                |                  |
| N° of elements                                         | 1                                                                                      |                |                  |
| Mounting form                                          | U12 - Front mounting without front plate with key operation for hole diam. 22mm fixing |                |                  |
| 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

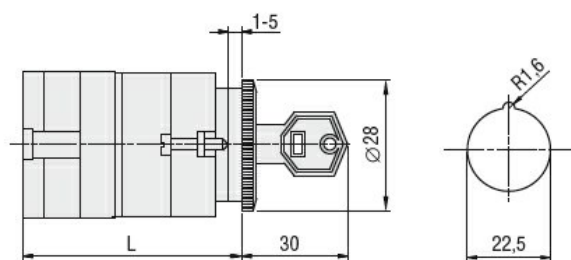
|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

### Resistance & Protection

|                   |      |
|-------------------|------|
| Frontal IP degree | IP40 |
|-------------------|------|

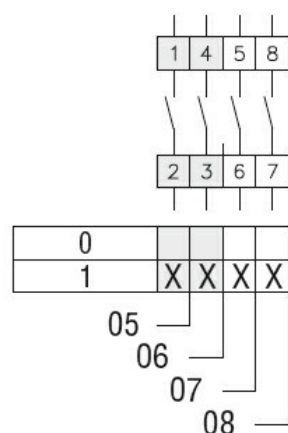
|                     |      |
|---------------------|------|
| Terminals IP degree | IP20 |
|---------------------|------|

### Dimensions



| Series | L    |    |       |     |
|--------|------|----|-------|-----|
|        | 1    | 2  | 3...8 |     |
| GF20   | 54.5 | 68 | 81.5  | 149 |

## 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