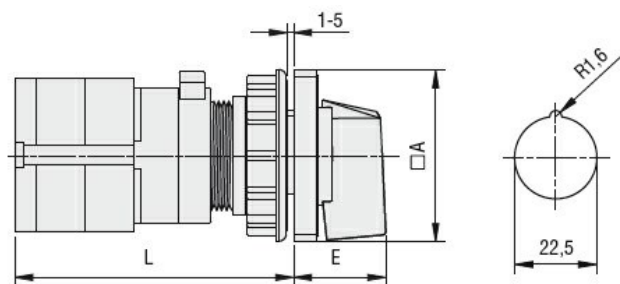


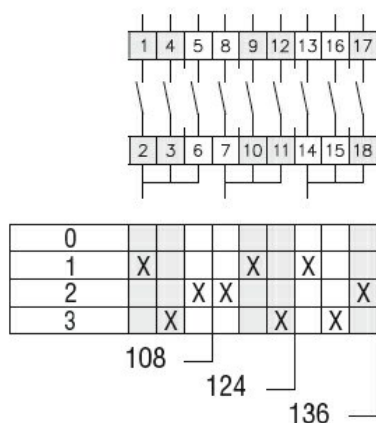
|                                                        |                                                                           |                |                  |
|--------------------------------------------------------|---------------------------------------------------------------------------|----------------|------------------|
| Product designation                                    | Rotary cam switches                                                       |                |                  |
| Product type designation                               | GF20                                                                      |                |                  |
| General characteristics                                |                                                                           |                |                  |
| Switching diagram                                      | 136 - Multi-step 0-1-2-3 3 poles                                          |                |                  |
| N° of elements                                         | 5                                                                         |                |                  |
| Mounting form                                          | U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing |                |                  |
| 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      | Dimensions |      | L  |      |         |       |
|-------------|------------|------|----|------|---------|-------|
|             | □A         | E    | 1  | 2    | 3.....8 |       |
| <b>GF10</b> | 30         | 18.5 | 60 | 72   | 84      | 144   |
| <b>GF20</b> | 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

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EAC

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete