

**ENERGY AND AUTOMATION** 

ROTARY CAM SWITCH GF SERIES, MULTI-STEP 1-2-3-4, 1 POLE 20A, FOR SNAP ON FRONT MOUNTING WITH BLACK HANDLE FOR HOLE Ø22MM FIXING, FRONT PLATE 48X48MM

| Product designation                                    |                      |          | Rotary cam  |
|--|----------------------|----------|---|
| •  |                      |          | switches  |
| Product type designation  General characteristics      |                      |          | GF20  |
| Switching diagram                                      |                      |          | 83 - Multi-step 1-<br>2-3-4 1 pole  |
| N° of elements   |                      |          | 2   |
| Mounting form  |                      |          | U47 - Snap on<br>fron mounting<br>with black handle<br>for hole diam.<br>22mm finxing |
| Contact characteristics Rated insulation voltage Ui    |                      |          |   |
| Rated Insulation voltage of                            | IEC/EN               | V        | 480   |
|  | UL/CSA               | V        | 240   |
| Rated impulse withstand voltage Uimp                   |                      | kV       | 4   |
| Conventional free air thermal current Ith              |                      |          | _   |
|  | IEC/EN               | Α        | 20  |
|  | UL/CSA               | Α        | 15  |
| Rated operational voltage                              |                      | V        | 480   |
| Rated operational impulse voltage                      |                      | kV       | 4   |
| Maximum fuse size for short-circuit protection In (gG) | 401.4                |          | 00  |
|  | 10kA<br>15kA         | A        | 20<br>20  |
|  | 25kA                 | A<br>A   | 20  |
| Rated short time current lcw                           | 2510-1               |          | 20  |
| rated short and surront low                            | 1s                   | kA       | 250   |
| Conductivity   |                      |          | 10/5 mA/V   |
| Operational current le IEC/EN                          |                      |          |   |
| AC1/AC21A  |                      |          |   |
|  |                      | Α        | 20  |
| AC15   |                      |          |   |
|  | 110V                 | A        | 10  |
|  | 220/230V<br>380/400V | A<br>A   | 8<br>6  |
| Rated operational power in AC                          | 360/4007             | A        | 0   |
| Three-phase AC-3                                       |                      |          |   |
| Three phase he e                                       | 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                                      | 220/2221             | 1.\ \ /  | 4   |
|  | 220/230V<br>380/440V | kW<br>kW | 4<br>7.5  |
| Single-phase AC23A                                     | 300/4407             | KVV      | 1.0   |
| Olligio pilaso AOZOA                                   | 110V                 | kW       | 0.75  |
|  | 220/230V             | kW       | 2   |
|  | 380/440V             | kW       | 2.5   |
| Rated operational current in DC                        |                      |          |   |
| DC21A  |                      |          |   |
|  | 48V                  | Α        | 20  |



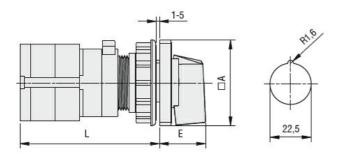
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|                                  |                                       | 60V        | Α      | 20                |
|----------------------------------|---------------------------------------|------------|--------|-------------------|
|                                  |                                       | 110V       | Α      | 4                 |
|                                  |                                       | 220V       | Α      | 0.7               |
|                                  |                                       | 440V       | Α      | 0.2               |
|                                  | DC13                                  |            |        |                   |
|                                  |                                       | 24V        | Α      | 6                 |
|                                  |                                       | 48V        | Α      | 6                 |
|                                  |                                       | 60V        | Α      | 3                 |
|                                  |                                       | 110V       | Α      | 1                 |
|                                  |                                       | 220V       | Α      | 0.4               |
|                                  |                                       | 440V       | Α      | 0.15              |
| Power dissipation                |                                       |            | W      | 0.8               |
| Mechanical features              |                                       |            |        |                   |
| Terminals screw                  |                                       |            |        | M3                |
| Tightening torque for t          | terminals max                         |            | Nm     | 0.5               |
| Conductor size                   |                                       |            |        |                   |
| 00.10.0.0.0.                     | AWG - Rigid cable                     |            |        |                   |
|                                  | 7.VVO Trigid dable                    | min        | AWG    | 20                |
|                                  |                                       | Max        | AWG    | 12                |
|                                  | AWG - Flexible cable                  | Wick       | 7,1110 | 12                |
|                                  | AVVO T TEXABLE GABIE                  | min        | AWG    | 20                |
|                                  |                                       | Max        | AWG    | 12                |
|                                  | Conductor size (IEC) - Flexible cable | IVICA      | 700    | 12                |
|                                  | Conductor Size (IEC) - Flexible cable | min        | mm²    | 0.5               |
|                                  |                                       | Max        | mm²    | 2.5               |
|                                  | Conductor size (IEC) Digid coble      | IVIdX      | ШШ     | 2.5               |
|                                  | Conductor size (IEC) - Rigid cable    | min        | mm²    | 0 F               |
|                                  |                                       | min<br>Max | mm²    | 0.5<br>2.5        |
| Mechanical life                  |                                       | IVIdX      |        |                   |
| UL technical data                |                                       |            | cycles | 1x10 <sup>6</sup> |
|                                  | t on line control                     |            |        |                   |
| Motor power for direct           |                                       |            |        |                   |
|                                  | for three-phase motor                 | 0.40\/     | LID    | 0                 |
|                                  | for all all all and wanter            | 240V       | HP     | 3                 |
|                                  | for single-phase motor                | 0.4017     | ш      | 4                 |
| A male to make a constitution of |                                       | 240V       | HP     | 1                 |
| Ambient conditions               |                                       |            |        |                   |
| Temperature                      | Out of the terms of                   |            |        |                   |
|                                  | Operating temperature                 |            | 2.2    | 0.5               |
|                                  |                                       | min        | °C     | -25               |
|                                  |                                       | max        | °C     | +55               |
|                                  | Storage temperature                   |            |        |                   |
|                                  |                                       | min        | °C     | -40               |
|                                  |                                       | max        | °C     | +70               |
| Resistance & Protecti            | on                                    |            |        |                   |
| Frontal IP degree                |                                       |            |        | IP40              |
| Terminals IP degree              |                                       |            |        | IP20              |
| Dimensions                       |                                       |            |        |                   |
|                                  |                                       |            |        |                   |

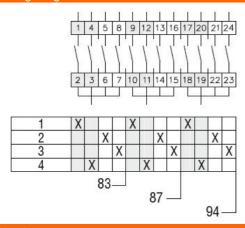
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| Series | Dimensions |      | L  |      |    |       |
|--------|------------|------|----|------|----|-------|
|        | □A         | Е    | 1  | 2    | 3  | 8     |
| GF10   | 30         | 18.5 | 60 | 72   | 84 | 144   |
| GF20   | 48         | 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