

# **GX16109U** ROTARY CAM SWITCH GX SERIES, MULTI-STEP 0-1-2-3-4, 1 POLE 16A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

| Product designation                                    |          |    | Rotary cam                                 |
|--|----------|----|--|
| Product type designation                               |          |    | switches<br>GX16                           |
| General characteristics                                |          |    | C/10                                       |
| Switching diagram                                      |          |    | 109 - Multi-step<br>0-1-2-3-4 1 pole       |
| N° of elements   |          |    | 2  |
| Mounting form  |          |    | U - Front<br>mounting with<br>black handle |
| Contact characteristics                                |          |    | black handle                               |
| Rated insulation voltage Ui                            |          |    |  |
| <b>.</b>   | IEC/EN   | V  | 690  |
|  | UL/CSA   | V  | 600  |
| Rated impulse withstand voltage Uimp                   |          | kV | 6  |
| Conventional free air thermal current Ith              |          |    |  |
|  | IEC/EN   | А  | 16   |
|  | UL/CSA   | А  | 12   |
| Rated operational voltage                              |          | V  | 440  |
| Rated operational impulse voltage                      |          | kV | 4  |
| Maximum fuse size for short-circuit protection In (gG) |          |    |  |
|  | 10kA     | A  | 16   |
|  | 15kA     | A  | 16   |
| Rated short time current Icw                           | 25kA     | A  | 16   |
| Rated short time current icw                           | 1s       | kA | 250  |
| Conductivity   | 15       | ĸА | 10/5 mA/V                                  |
| Operational current le IEC/EN                          |          |    | 10/3 11/4/ 1                               |
| AC1/AC21A  |          |    |  |
|  |          | А  | 16   |
| AC15   |          |    |  |
|  | 110V     | А  | 10   |
|  | 220/230V | А  | 8  |
|  | 380/400V | А  | 4  |
|  | 660/690V | Α  | 1.5  |
| Rated operational power in AC                          |          |    |  |
| Three-phase AC-3                                       |          |    |  |
|  | 220/230V | kW | 3.5  |
|  | 380/440V | kW | 4.5  |
| Single phase AC 2                                      | 500/690V | kW | 5.5  |
| Single-phase AC-3                                      | 110V     | kW | 0.55                                       |
|  | 220/230V | kW | 0.55<br>1.5                                |
|  | 380/440V | kW | 2.2  |
| Three-phase AC23A                                      | 000/1101 |    |  |
|  | 220/230V | kW | 3.7  |
|  | 380/440V | kW | 6.5  |
|  | 500/690V | kW | 7.5  |
| Single-phase AC23A                                     |          |    |  |
|  | 110V     | kW | 0.75                                       |
|  | 220/230V | kW | 1.8  |
| Rated operational current in DC                        | 380/440V | kW | 3  |

# Rated operational current in DC

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DC21A

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48V

60V

А

А

16

16

|                          |                                       | 110V | А      | 4                 |
|--------------------------|---------------------------------------|------|--------|-------------------|
|                          |                                       | 220V | А      | 0.6               |
|                          |                                       | 440V | А      | 0.25              |
|                          | DC23A (poles in series)               |      |        |                   |
|                          |                                       | 24V  | А      | 16 (1)            |
|                          |                                       | 48V  | А      | 16 (2)            |
|                          |                                       | 60V  | А      | 16 (3)            |
|                          |                                       | 110V | А      | 10 (3)            |
|                          |                                       | 220V | А      | 7 (4)             |
|                          | DC13                                  |      |        |                   |
|                          |                                       | 24V  | А      | 16                |
|                          |                                       | 48V  | A      | 14                |
|                          |                                       | 60V  | A      | 10                |
|                          |                                       | 110V | A      | 1                 |
|                          |                                       | 220V | A      | 0.4               |
|                          |                                       | 440V | A      | 0.15              |
| Power dissipation        |                                       | 1101 | W      | 0.6               |
| Mechanical features      |                                       |      | vv     | 0.0               |
| Terminals screw          |                                       |      |        | 3M                |
| Tightening torque for te | arminale may                          |      | Nm     | 0.5               |
| Conductor size           |                                       |      | INITI  | 0.5               |
| Conductor size           |                                       |      |        |                   |
|                          | AWG - Rigid cable                     |      |        | 20                |
|                          |                                       | min  | AWG    | 20                |
|                          |                                       | Max  | AWG    | 12                |
|                          | AWG - Flexible cable                  |      |        |                   |
|                          |                                       | min  | AWG    | 20                |
|                          |                                       | Max  | AWG    | 12                |
|                          | Conductor size (IEC) - Flexible cable |      |        |                   |
|                          |                                       | min  | mm²    | 0.5               |
|                          |                                       | Max  | mm²    | 2.5               |
|                          | Conductor size (IEC) - Rigid cable    |      |        |                   |
|                          |                                       | min  | mm²    | 0.5               |
|                          |                                       | Max  | mm²    | 2.5               |
| Mechanical life          |                                       |      | cycles | 1X10 <sup>6</sup> |
| UL technical data        |                                       |      |        |                   |
| Motor power for direct-  | on-line control                       |      |        |                   |
|                          | for three-phase motor                 |      |        |                   |
|                          |                                       | 120V | HP     | 1.5               |
|                          |                                       | 240V | HP     | 3                 |
|                          |                                       | 480V | HP     | 5                 |
|                          |                                       | 600V | HP     | 5                 |
|                          | for single-phase motor                |      |        |                   |
|                          | 5 1                                   | 120V | HP     | 0.75              |
|                          |                                       | 240V | HP     | 1                 |
| Ambient conditions       |                                       | 2.07 |        | -<br>             |
| Temperature              |                                       |      |        |                   |
| iompolatalo              | Operating temperature                 |      |        |                   |
|                          | operating temperature                 | min  | °C     | -25               |
|                          |                                       |      | °C     | -25<br>+55        |
|                          | Chara an to ma avaiture               | max  | U      | <del>1</del> 00   |

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

Storage temperature

°C

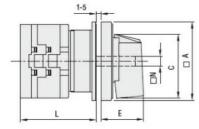
min

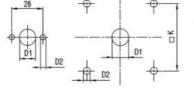
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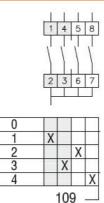




Drillings for 4 screws fixing (4V version).

| Series |    |      | D   | imensio | ns   |    |    | L Number of elements |      |    |      |    |      |     |       |     |       |     |       |
|--------|----|------|-----|---------|------|----|----|----------------------|------|----|------|----|------|-----|-------|-----|-------|-----|-------|
| Selles | □A | С    | ØD1 | ØD2     | E    | □K | ۵N | 1                    | 2    | 3  | 4    | 5  | 6    | 7   | 8     | 9   | 10    | 11  | 12    |
| GX16   | 48 | 39.5 | 12  | 5       | 26.5 | 36 | 6  | 43                   | 51.5 | 60 | 68.5 | 77 | 85.5 | 94  | 102.5 | 111 | 119.5 | 128 | 136.5 |
| GX20   | 48 | 39.5 | 12  | 5       | 26.5 | 36 | 6  | 43                   | 51.5 | 60 | 68.5 | 77 | 85.5 | 94  | 102.5 | 111 | 119.5 | 128 | 136.5 |
| GX32   | 65 | 53   | 14  | 5       | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |
| GX40   | 65 | 53   | 14  | 5       | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |

#### Wiring diagrams



# Certifications and compliance

# Compliance

| oomphanoo           |                     |                  |
|---------------------|---------------------|------------------|
|                     | CSA C22.2 n° 14     |                  |
|                     | IEC/EN/BS 60947-1   |                  |
|                     | IEC/EN/BS 60947-3   |                  |
|                     | IEC/EN/BS 60947-5-1 |                  |
|                     | IEC/EN/BS 61058-1   |                  |
|                     | UL60947-4-1         |                  |
| Certificates        |                     |                  |
|                     | cULus               |                  |
|                     | EAC                 |                  |
| ETIM classification |                     |                  |
|                     |                     | EC001029 -       |
| ETIM 8.0            |                     | Selector switch, |
|                     |                     | complete         |

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