**ENERGY AND AUTOMATION** 



| Product designation                                    |                      |          | Rotary cam     |
|--|----------------------|----------|----------------|
| •  |                      |          | switches       |
| Product type designation                               |                      |          | GX20           |
| General characteristics                                |                      |          | 10 - ON/OFF    |
| Switching diagram                                      |                      |          | switch 3 poles |
| N° of elements   |                      |          | 2              |
|  |                      |          | U - Front      |
| Mounting form  |                      |          | mounting with  |
| Contact characteristics                                |                      |          | black handle   |
| Contact characteristics Rated insulation voltage Ui    |                      |          |                |
| Rated Insulation voitage of                            | IEC/EN               | V        | 690            |
|  | UL/CSA               | V        | 600            |
| Rated impulse withstand voltage Uimp                   | 0 L/ 0 C/ K          | kV       | 6              |
| Conventional free air thermal current Ith              |                      |          |                |
|  | IEC/EN               | Α        | 20             |
|  | UL/CSA               | Α        | 15             |
| Rated operational voltage                              |                      | V        | 440            |
| Rated operational impulse voltage                      |                      | kV       | 4              |
| Maximum fuse size for short-circuit protection In (gG) |                      |          |                |
|  | 10kA                 | Α        | 20             |
|  | 15kA                 | A        | 20             |
| Detect of the art time a suggest law.                  | 25kA                 | A        | 20             |
| Rated short time current Icw                           | 10                   | IzΛ      | 250            |
| Conductivity   | 1s                   | kA       | 10/5 mA/V      |
| Operational current le IEC/EN                          |                      |          | 10/5 IIIA/ V   |
| AC1/AC21A  |                      |          |                |
| NO IMOZIN  |                      | Α        | 20             |
| AC15   |                      |          |                |
|  | 110V                 | Α        | 10             |
|  | 220/230V             | Α        | 8              |
|  | 380/400V             | Α        | 6              |
|  | 660/690V             | Α        | 1.5            |
| Rated operational power in AC                          |                      |          |                |
| Three-phase AC-3                                       | 000/0001/            |          |                |
|  | 220/230V             | kW       | 3.7            |
|  | 380/440V<br>500/690V | kW<br>kW | 5.5<br>5.5     |
| Single-phase AC-3                                      | 300/090 V            | IV V V   | 0.0            |
| Olligio pilase 70-0                                    | 110V                 | kW       | 0.75           |
|  | 220/230V             | kW       | 1.8            |
|  | 380/440V             | kW       | 3              |
| Three-phase AC23A                                      |                      |          |                |
| ·  | 220/230V             | kW       | 4              |

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# electric ROTARY CAM SWITCH GX SERIES, ON-OFF SWITCH 3 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

|  |   | 380/440V  | kW   | 7.5  |
|--|---|---|--|--|
|  |   | 500/690V  | kW   | 7.5  |
|  | Single-phase AC23A  |   |  | _  |
|  | 5 1   | 110V  | kW   | 0.75   |
|  |   | 220/230V  | kW   | 2.2  |
|  |   | 380/440V  | kW   | 3.5  |
| Rated operational cur  | rent in DC  |   |  |  |
| rated operational cut  | DC21A   |   |  |  |
|  | 56277   | 48V   | Α  | 20   |
|  |   | 60V   | A  | 20   |
|  |   | 110V  | A  | 4  |
|  |   | 220V  | A  | 0.6  |
|  |   | 440V  | A  | 0.25   |
|  | DC22A (polos in porios)   | 440 V   |  | 0.25   |
|  | DC23A (poles in series)   | 241/  | ۸  | 20 (4)   |
|  |   | 24V   | A  | 20 (1)   |
|  |   | 48V   | A  | 20 (2)   |
|  |   | 60V   | A  | 20 (3)   |
|  |   | 110V  | Α  | 10 (3)   |
|  |   | 220V  | Α  | 8 (4)  |
|  | DC13  |   |  |  |
|  |   | 24V   | Α  | 20   |
|  |   | 48V   | Α  | 16   |
|  |   | 60V   | Α  | 12   |
|  |   | 110V  | Α  | 1  |
|  |   | 220V  | Α  | 0.4  |
|  |   | 440V  | Α  | 0.15   |
| Power dissipation  |   |   | W  | 0.6  |
|  |   |   |  |  |
| Mechanical features  |   |   |  |  |
| Mechanical features Terminals screw  |   |   |  | M3   |
| Terminals screw  | terminals max   |   | Nm   | M3<br>0.8  |
| Terminals screw Tightening torque for t  | terminals max   |   | Nm   | M3<br>0.8  |
| Terminals screw  |   |   | Nm   |  |
| Terminals screw Tightening torque for t  | terminals max  AWG - Rigid cable  | min   |  | 0.8  |
| Terminals screw Tightening torque for t  |   | min   | AWG  | 20   |
| Terminals screw Tightening torque for t  | AWG - Rigid cable   | min<br>Max  |  | 0.8  |
| Terminals screw Tightening torque for t  |   | Max   | AWG<br>AWG                                       | 0.8<br>20<br>12  |
| Terminals screw Tightening torque for t  | AWG - Rigid cable   | Max<br>min  | AWG<br>AWG                                       | 0.8<br>20<br>12<br>20  |
| Terminals screw Tightening torque for t  | AWG - Rigid cable  AWG - Flexible cable   | Max   | AWG<br>AWG                                       | 0.8<br>20<br>12  |
| Terminals screw Tightening torque for t  | AWG - Rigid cable   | Max<br>min<br>Max                                 | AWG<br>AWG<br>AWG                                | 0.8<br>20<br>12<br>20<br>12                                      |
| Terminals screw Tightening torque for t  | AWG - Rigid cable  AWG - Flexible cable   | Max<br>min<br>Max<br>min                          | AWG<br>AWG<br>AWG<br>AWG                         | 0.8<br>20<br>12<br>20<br>12<br>0.5                               |
| Terminals screw Tightening torque for t  | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  | Max<br>min<br>Max                                 | AWG<br>AWG<br>AWG                                | 0.8<br>20<br>12<br>20<br>12                                      |
| Terminals screw Tightening torque for t  | AWG - Rigid cable  AWG - Flexible cable   | Max<br>min<br>Max<br>min<br>Max                   | AWG<br>AWG<br>AWG<br>AWG                         | 0.8  20 12  20 12  0.5 2.5                                       |
| Terminals screw Tightening torque for t  | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  | Max min Max min Max min                           | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²           | 0.8  20 12  20 12  0.5 2.5  0.5                                  |
| Terminals screw Tightening torque for to Conductor size                                    | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  | Max<br>min<br>Max<br>min<br>Max                   | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²           | 0.8  20 12  20 12  0.5 2.5  0.5 2.5                              |
| Terminals screw Tightening torque for to Conductor size  Mechanical life                   | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  | Max min Max min Max min                           | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²           | 0.8  20 12  20 12  0.5 2.5  0.5                                  |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  | Max min Max min Max min                           | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²           | 0.8  20 12  20 12  0.5 2.5  0.5 2.5                              |
| Terminals screw Tightening torque for to Conductor size  Mechanical life                   | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control                       | Max min Max min Max min                           | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²           | 0.8  20 12  20 12  0.5 2.5  0.5 2.5                              |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  | Max<br>min<br>Max<br>min<br>Max<br>min<br>Max     | AWG<br>AWG<br>AWG<br>Mm²<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  0.5 2.5  1X10 <sup>6</sup>           |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control                       | Max min Max min Max min                           | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²           | 0.8  20 12  20 12  0.5 2.5  0.5 2.5                              |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control                       | Max<br>min<br>Max<br>min<br>Max<br>min<br>Max     | AWG<br>AWG<br>AWG<br>Mm²<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  0.5 2.5  1X10 <sup>6</sup>           |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control                       | Max min Max min Max min Max                       | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  1X10 <sup>6</sup>                    |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control                       | Max min Max min Max min Max  120V 240V            | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  0.5 2.5  1X10 <sup>6</sup>           |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor | Max min Max min Max  min Max  120V 240V 480V      | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  0.5 2.5  1X10 <sup>6</sup> 1.5 3 5   |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control                       | Max min Max min Max  min Max  120V 240V 480V 600V | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  0.5 2.5  1X10 <sup>6</sup> 1.5 3 5 5 |
| Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data | AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor | Max min Max min Max  min Max  120V 240V 480V      | AWG<br>AWG<br>AWG<br>AWG<br>mm²<br>mm²<br>cycles | 0.8  20 12  20 12  0.5 2.5  0.5 2.5  1X10 <sup>6</sup> 1.5 3 5   |

electric ROTARY CAM SWITCH GX SERIES, ON-OFF SWITCH 3 POLES 20A, FOR FRONT MOUNTING
WITH BLACK HANDLE, FRONT PLATE 48X48MM

**ENERGY AND AUTOMATION** 

## Ambient conditions

## Temperature

Operating temperature

| min | °С | -25 |
|-----|----|-----|
| max | °C | +55 |

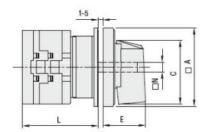
Storage temperature

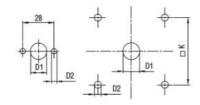
min °C -40 max °C +70

## Resistance & Protection

| Frontal IP degree   | IP65 |
|---------------------|------|
| Terminals IP degree | IP20 |

#### **Dimensions**

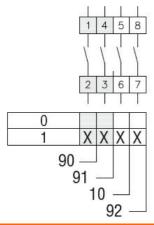




Drillings for 4 screws fixing (4V version).

| Series - | Dimensions |      |     |     |      |    | L Number of elements |    |      |    |      |    |      |     |       |     |       |     |       |
|----------|------------|------|-----|-----|------|----|----------------------|----|------|----|------|----|------|-----|-------|-----|-------|-----|-------|
|          | □A         | C    | ØD1 | ØD2 | E    | □K | □N                   | 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

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





electric ROTARY CAM SWITCH GX SERIES, ON-OFF SWITCH 3 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM **ENERGY AND AUTOMATION** 

ETIM 8.0

EC001105 - Offload switch