

|   |                    |    |      |   |
|---|--------------------|----|------|---|
| Product designation                                       |                    |    |      | Rotary cam switches                     |
| Product type designation                                  |                    |    |      | GX16                                    |
| <b>General characteristics</b>                            |                    |    |      |   |
| Switching diagram   |                    |    |      | 75 - Changeover switch 4 poles          |
| N° of elements  |                    |    |      | 4                                       |
| Mounting form   |                    |    |      | P - Plastic enclosure with black handle |
| <b>Contact characteristics</b>                            |                    |    |      |   |
| Rated insulation voltage $U_i$                            | IEC/EN             | V  | 690  |   |
|   | UL/CSA             | V  | 600  |   |
| Rated impulse withstand voltage $U_{imp}$                 |                    |    | kV   | 6                                       |
| Conventional free air thermal current $I_{th}$            | IEC/EN             | A  | 16   |   |
|   | UL/CSA             | A  | 12   |   |
| Rated operational voltage                                 |                    |    | V    | 440                                     |
| Rated operational impulse voltage                         |                    |    | kV   | 4                                       |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA               | A  | 16   |   |
|   | 15kA               | A  | 16   |   |
|   | 25kA               | A  | 16   |   |
| Rated short time current $I_{cw}$                         |                    |    | 1s   | A                                       |
|   |                    |    |      | 250                                     |
| Conductivity  |                    |    |      | 10/5 mA/V                               |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A          |    | A    | 16                                      |
|   | AC15               |    |      |   |
|   | 110V               | A  | 10   |   |
|   | 220/230V           | A  | 8    |   |
|   | 380/400V           | A  | 4    |   |
|   | 660/690V           | A  | 1.5  |   |
| Rated operational power in AC                             | Three-phase AC-3   |    |      |   |
|   | 220/230V           | kW | 3.5  |   |
|   | 380/440V           | kW | 4.5  |   |
|   | 500/690V           | kW | 5.5  |   |
|   | Single-phase AC-3  |    |      |   |
|   | 110V               | kW | 0.55 |   |
|   | 220/230V           | kW | 1.5  |   |
|   | 380/440V           | kW | 2.2  |   |
|   | Three-phase AC23A  |    |      |   |
|   | 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  |   |
|   | 380/440V           | kW | 3    |   |
| Rated operational current in DC                           |                    |    |      |   |

|  |      |                 |  |                   |
|--|------|-----------------|--|-------------------|
| DC21A                                  |      |                 |  |                   |
|  | 48V  | A               |  | 16                |
|  | 60V  | A               |  | 16                |
|  | 110V | A               |  | 4                 |
|  | 220V | A               |  | 0.6               |
|  | 440V | A               |  | 0.25              |
| DC23A (poles in series)                |      |                 |  |                   |
|  | 24V  | A               |  | 16 (1)            |
|  | 48V  | A               |  | 16 (2)            |
|  | 60V  | A               |  | 16 (3)            |
|  | 110V | A               |  | 10 (3)            |
|  | 220V | A               |  | 7 (4)             |
| DC13                                   |      |                 |  |                   |
|  | 24V  | A               |  | 16                |
|  | 48V  | A               |  | 14                |
|  | 60V  | A               |  | 10                |
|  | 110V | A               |  | 1                 |
|  | 220V | A               |  | 0.4               |
|  | 440V | A               |  | 0.15              |
| Power dissipation                      |      | W               |  | 0.6               |
| <b>Mechanical features</b>             |      |                 |  |                   |
| Terminals screw                        |      |                 |  | 3M                |
| 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> |
| <b>UL technical data</b>               |      |                 |  |                   |
| 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                 |      |                 |  |                   |
|  | 120V | HP              |  | 0.75              |
|  | 240V | HP              |  | 1                 |
| <b>Ambient conditions</b>              |      |                 |  |                   |
| Temperature                            |      |                 |  |                   |
| Operating temperature                  |      |                 |  |                   |
|  | min  | °C              |  | -25               |
|  | max  | °C              |  | +55               |
| Storage temperature                    |      |                 |  |                   |
|  | min  | °C              |  | -40               |

max °C +70

**Resistance & Protection**

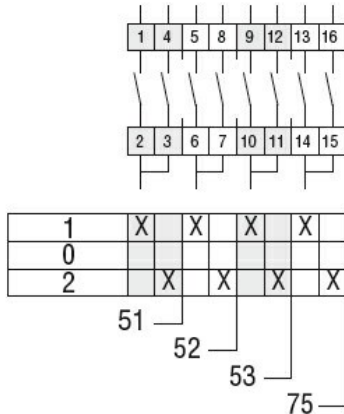
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

**Dimensions**



|      |         |       |       |     |     |      |    |     |    |    |      |      |       |        |      |
|------|---------|-------|-------|-----|-----|------|----|-----|----|----|------|------|-------|--------|------|
| GX16 | 90x90   | 1 - 2 | 3 - 5 | 90  | 90  | 79   | 79 | 4.5 | 25 | 19 | 30   | 71.3 | 98.3  | 4xPG16 | IP65 |
| GX20 |         | 1 - 2 | 3 - 5 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX16 | 110x110 | 1 - 3 | 4 - 7 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| GX20 |         | 1 - 3 | 4 - 7 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX32 |         | 1 - 2 | 3 - 4 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX40 |         | 1 - 2 | 3 - 4 |     |     |      |    |     |    |    |      |      |       |        |      |

**Wiring diagrams**



**Certifications and compliance**

**Compliance**

- IEC/EN/BS 60947-1
- IEC/EN/BS 60947-3
- IEC/EN/BS 60947-5-1
- IEC/EN/BS 61058-1

**Certificates**

EAC

**ETIM classification**

ETIM 8.0

EC001105 - Off-load switch