

|   |                   |      |      |  |
|---|-------------------|------|------|--|
| Product designation                                       |                   |      |      | Rotary cam switches                                    |
| Product type designation                                  |                   |      |      | GX20   |
| <b>General characteristics</b>                            |                   |      |      |  |
| Switching diagram   |                   |      |      | 26 - 3-phase motor reversing switch with spring return |
| N° of elements  |                   |      |      | 3  |
| Mounting form   |                   |      |      | U - Front mounting 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    | 20   |  |
|   | UL/CSA            | A    | 15   |  |
| Rated operational voltage                                 |                   | V    | 440  |  |
| Rated operational impulse voltage                         |                   | kV   | 4    |  |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA              | A    | 20   |  |
|   | 15kA              | A    | 20   |  |
|   | 25kA              | A    | 20   |  |
| Rated short time current $I_{cw}$                         |                   |      |      |  |
|   |                   | 1s   | A    | 250  |
| Conductivity  |                   |      |      | 10/5 mA/V  |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A         |      |      |  |
|   |                   |      | A    | 20   |
| AC15  | 110V              | A    | 10   |  |
|   | 220/230V          | A    | 8    |  |
|   | 380/400V          | A    | 6    |  |
|   | 660/690V          | A    | 1.5  |  |
|   |                   |      |      |  |
| Rated operational power in AC                             | Three-phase AC-3  |      |      |  |
|   | 220/230V          | kW   | 3.7  |  |
|   | 380/440V          | kW   | 5.5  |  |
|   | 500/690V          | kW   | 5.5  |  |
|   | Single-phase AC-3 |      |      |  |
|   | 110V              | kW   | 0.75 |  |
|   | 220/230V          | kW   | 1.8  |  |
|   | 380/440V          | kW   | 3    |  |
|   | Three-phase AC23A |      |      |  |
|   | 220/230V          | kW   | 4    |  |
|   | 380/440V          | kW   | 7.5  |  |
|   | 500/690V          | kW   | 7.5  |  |
| Single-phase AC23A  |                   |      |      |  |
| 110V  | kW                | 0.75 |      |  |
| 220/230V  | kW                | 2.2  |      |  |

|  | 380/440V | kW              | 3.5               |
|--|----------|-----------------|-------------------|
| Rated operational current in DC        |          |                 |                   |
| DC21A                                  | 48V      | A               | 20                |
|  | 60V      | A               | 20                |
|  | 110V     | A               | 4                 |
|  | 220V     | A               | 0.6               |
|  | 440V     | A               | 0.25              |
| DC23A (poles in series)                | 24V      | A               | 20 (1)            |
|  | 48V      | A               | 20 (2)            |
|  | 60V      | A               | 20 (3)            |
|  | 110V     | A               | 10 (3)            |
|  | 220V     | A               | 8 (4)             |
| DC13                                   | 24V      | A               | 20                |
|  | 48V      | A               | 16                |
|  | 60V      | A               | 12                |
|  | 110V     | A               | 1                 |
|  | 220V     | A               | 0.4               |
|  | 440V     | A               | 0.15              |
| Power dissipation                      |          | W               | 0.6               |
| <b>Mechanical features</b>             |          |                 |                   |
| Terminals screw                        |          |                 | M3                |
| Tightening torque for terminals max    |          | Nm              | 0.8               |
| 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              | 1.5               |
| <b>Ambient conditions</b>              |          |                 |                   |
| Temperature                            |          |                 |                   |
| Operating temperature                  | min      | °C              | -25               |
|  | max      | °C              | +55               |

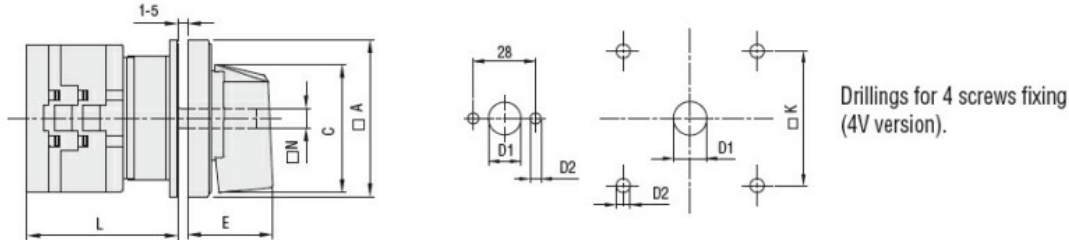
Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

**Resistance & Protection**

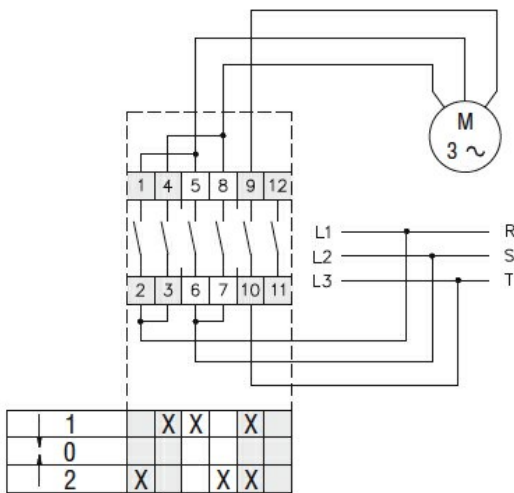
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

**Dimensions**



| Series | Dimensions |      |     |     |      |    |    | L Number of elements |      |    |      |    |      |     |       |     |       |     |       |
|--------|------------|------|-----|-----|------|----|----|----------------------|------|----|------|----|------|-----|-------|-----|-------|-----|-------|
|        | □A         | C    | ∅D1 | ∅D2 | 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**

ETIM 8.0

EC001105 - Off-load switch