

|   |                   |          |          |  |
|---|-------------------|----------|----------|--|
| Product designation                                       |                   |          |          | Rotary cam switches                    |
| Product type designation                                  |                   |          |          | GX40                                   |
| <b>General characteristics</b>                            |                   |          |          |  |
| Switching diagram   |                   |          |          | 110 - Multi-step<br>0-1-2-3-4-5 1 pole |
| 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        | 40       |  |
|   | UL/CSA            | A        | 40       |  |
|   |                   |          |          |  |
| Rated operational voltage                                 |                   |          | V        | 440                                    |
| Rated operational impulse voltage                         |                   |          | kV       | 4                                      |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA              | A        | 40       |  |
|   | 15kA              | A        | 35       |  |
|   | 25kA              | A        | 35       |  |
|   |                   |          |          |  |
| Rated short time current $I_{cw}$                         | 1s                | kA       | 1000     |  |
|   |                   |          |          |  |
| Conductivity  |                   |          |          | 10/5 mA/V                              |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A         |          |          | A 40                                   |
|   | AC15              |          |          |  |
|   |                   | 110V     | A        | 25                                     |
|   |                   | 220/230V | A        | 22                                     |
|   |                   | 380/400V | A        | 12                                     |
|   |                   | 660/690V | A        | 2                                      |
| Rated operational power in AC                             | Three-phase AC-3  |          |          |  |
|   |                   |          | 220/230V | kW 7.5                                 |
|   |                   |          | 380/440V | kW 15                                  |
|   |                   |          | 500/690V | kW 15                                  |
|   | Single-phase AC-3 |          |          |  |
|   |                   |          | 110V     | kW 2.2                                 |
|   |                   |          | 220/230V | kW 4.4                                 |
|   |                   |          | 380/440V | kW 7                                   |
|   | Three-phase AC23A |          |          |  |
|   |                   |          | 220/230V | kW 9                                   |
|   |                   |          | 380/440V | kW 18.5                                |
|   |                   |          | 500/690V | kW 15                                  |
| Single-phase AC23A  |                   |          |          |  |
|   |                   | 110V     | kW 3     |  |
|   |                   | 220/230V | kW 5.2   |  |
|   |                   | 380/440V | kW 7.5   |  |
| <b>Rated operational current in DC</b>                    |                   |          |          |  |

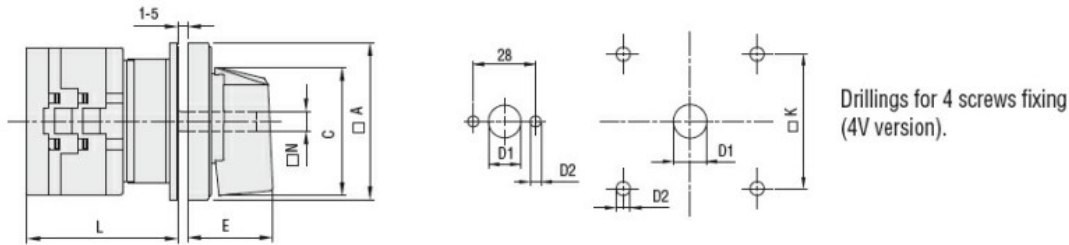
|  |      |                 |                   |    |
|--|------|-----------------|-------------------|----|
| DC21A                                  |      |                 |                   |    |
|  | 48V  | A               | 40                |    |
|  | 60V  | A               | 40                |    |
|  | 110V | A               | 6                 |    |
|  | 220V | A               | 0.8               |    |
|  | 440V | A               | 0.25              |    |
| DC23A (poles in series)                |      |                 |                   |    |
|  | 24V  | A               | 40 (1)            |    |
|  | 48V  | A               | 40 (1)            |    |
|  | 60V  | A               | 40 (3)            |    |
|  | 110V | A               | 40 (3)            |    |
|  | 220V | A               | 12 (4)            |    |
| DC13                                   |      |                 |                   |    |
|  | 24V  | A               | 40                |    |
|  | 48V  | A               | 32                |    |
|  | 60V  | A               | 16                |    |
|  | 110V | A               | 3                 |    |
|  | 220V | A               | 0.5               |    |
|  | 440V | A               | 0.15              |    |
| Power dissipation                      |      | W               | 1.6               |    |
| <b>Mechanical features</b>             |      |                 |                   |    |
| Terminals screw                        |      |                 |                   | M4 |
| Tightening torque for terminals max    |      | Nm              | 1.2               |    |
| Conductor size                         |      |                 |                   |    |
| AWG - Rigid cable                      |      |                 |                   |    |
|  | min  | AWG             | 16                |    |
|  | Max  | AWG             | 8                 |    |
| AWG - Flexible cable                   |      |                 |                   |    |
|  | min  | AWG             | 16                |    |
|  | Max  | AWG             | 10                |    |
| Conductor size (IEC) - Flexible cable  |      |                 |                   |    |
|  | min  | mm <sup>2</sup> | 1.5               |    |
|  | Max  | mm <sup>2</sup> | 6                 |    |
| Conductor size (IEC) - Rigid cable     |      |                 |                   |    |
|  | min  | mm <sup>2</sup> | 1.5               |    |
|  | Max  | mm <sup>2</sup> | 10                |    |
| 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              | 5                 |    |
|  | 240V | HP              | 10                |    |
|  | 480V | HP              | 15                |    |
|  | 600V | HP              | 15                |    |
| for single-phase motor                 |      |                 |                   |    |
|  | 120V | HP              | 2                 |    |
|  | 240V | HP              | 5                 |    |
| <b>Ambient conditions</b>              |      |                 |                   |    |
| Temperature                            |      |                 |                   |    |
| Operating temperature                  |      |                 |                   |    |
|  | min  | °C              | -25               |    |
|  | max  | °C              | +55               |    |
| Storage temperature                    |      |                 |                   |    |
|  | min  | °C              | -40               |    |

max °C +70

**Resistance & Protection**

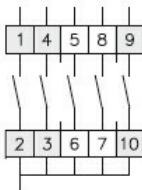
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

**Dimensions**



| Series      | Dimensions |      |     |     |      |    |    | L Number of elements |      |    |      |    |      |     |       |     |       |     |       |
|-------------|------------|------|-----|-----|------|----|----|----------------------|------|----|------|----|------|-----|-------|-----|-------|-----|-------|
|             | □A         | C    | ØD1 | ØD2 | E    | □K | □N | 1                    | 2    | 3  | 4    | 5  | 6    | 7   | 8     | 9   | 10    | 11  | 12    |
| <b>GX16</b> | 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 |
| <b>GX20</b> | 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 |
| <b>GX32</b> | 65         | 53   | 14  | 5   | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |
| <b>GX40</b> | 65         | 53   | 14  | 5   | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |

**Wiring diagrams**



|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 |   |   |   |   |   |
| 1 | X |   |   |   |   |
| 2 |   |   | X |   |   |
| 3 |   |   |   |   | X |
| 4 |   | X |   |   |   |
| 5 |   |   |   | X |   |

110

**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

EC001029 -  
Selector switch,  
complete