

|                                                        |                                                                                |    |           |
|--------------------------------------------------------|--------------------------------------------------------------------------------|----|-----------|
| Product designation                                    | Enclosed rotary cam switch                                                     |    |           |
| Product type designation                               | GX32                                                                           |    |           |
| General characteristics                                |                                                                                |    |           |
| Switching diagram                                      | 53 - Changeover switch 3 poles - 2 speed motor starting with separate windings |    |           |
| N° of elements                                         | 3                                                                              |    |           |
| Mounting form                                          | P - Plastic enclosure with black handle                                        |    |           |
| Contact characteristics                                |                                                                                |    |           |
| Rated insulation voltage Ui                            | IEC/EN                                                                         | V  | 690       |
|                                                        | UL/CSA                                                                         | V  | 600       |
| Rated impulse withstand voltage Uimp                   |                                                                                | kV | 6         |
| Conventional free air thermal current Ith              | IEC/EN                                                                         | A  | 32        |
|                                                        | UL/CSA                                                                         | A  | 32        |
| Rated operational voltage                              |                                                                                | V  | 440       |
| Rated operational impulse voltage                      |                                                                                | kV | 4         |
| Maximum fuse size for short-circuit protection In (gG) | 10kA                                                                           | A  | 35        |
|                                                        | 15kA                                                                           | A  | 35        |
|                                                        | 25kA                                                                           | A  | 35        |
| Rated short time current Icw                           | 1s                                                                             | kA | 1000      |
| Conductivity                                           |                                                                                |    | 10/5 mA/V |
| Operational current Ie IEC/EN                          |                                                                                |    |           |
| AC1/AC21A                                              |                                                                                | A  | 32        |
| AC15                                                   | 110V                                                                           | A  | 25        |
|                                                        | 220/230V                                                                       | A  | 20        |
|                                                        | 380/400V                                                                       | A  | 10        |
|                                                        | 660/690V                                                                       | A  | 2         |
| Rated operational power in AC                          |                                                                                |    |           |
| Three-phase AC-3                                       | 220/230V                                                                       | kW | 7.5       |
|                                                        | 380/440V                                                                       | kW | 11        |
|                                                        | 500/690V                                                                       | kW | 11        |
| Single-phase AC-3                                      | 110V                                                                           | kW | 1.8       |
|                                                        | 220/230V                                                                       | kW | 3.5       |
|                                                        | 380/440V                                                                       | kW | 5.5       |
| Three-phase AC23A                                      | 220/230V                                                                       | kW | 8         |
|                                                        | 380/440V                                                                       | kW | 15        |
|                                                        | 500/690V                                                                       | kW | 15        |
| Single-phase AC23A                                     | 110V                                                                           | kW | 2.2       |

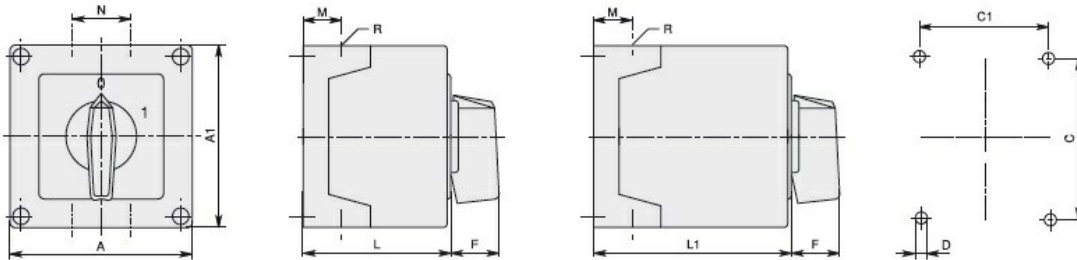
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|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 220/230V | kW              | 3.5               |
|                                        |  | 380/440V | kW              | 6                 |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  |          |                 |                   |
|                                        |  | 48V      | A               | 32                |
|                                        |  | 60V      | A               | 32                |
|                                        |  | 110V     | A               | 5                 |
|                                        |  | 220V     | A               | 0.8               |
|                                        |  | 440V     | A               | 0.25              |
| DC23A (poles in series)                |  |          |                 |                   |
|                                        |  | 24V      | A               | 32 (1)            |
|                                        |  | 48V      | A               | 32 (2)            |
|                                        |  | 60V      | A               | 32 (3)            |
|                                        |  | 110V     | A               | 15 (3)            |
|                                        |  | 220V     | A               | 12 (4)            |
| DC13                                   |  |          |                 |                   |
|                                        |  | 24V      | A               | 32                |
|                                        |  | 48V      | A               | 25                |
|                                        |  | 60V      | A               | 14                |
|                                        |  | 110V     | A               | 3                 |
|                                        |  | 220V     | A               | 0.5               |
|                                        |  | 440V     | A               | 0.15              |
| Power dissipation                      |  |          | W               | 1.6               |
| Mechanical features                    |  |          |                 |                   |
| 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> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  |          |                 |                   |
|                                        |  | 120V     | HP              | 3                 |
|                                        |  | 240V     | HP              | 7.5               |
|                                        |  | 480V     | HP              | 15                |
|                                        |  | 600V     | HP              | 15                |
| for single-phase motor                 |  |          |                 |                   |
|                                        |  | 120V     | HP              | 1.5               |
|                                        |  | 240V     | HP              | 3                 |
| Ambient conditions                     |  |          |                 |                   |
| Temperature                            |  |          |                 |                   |
| Operating temperature                  |  |          |                 |                   |
|                                        |  | min      | °C              | -25               |

|                     |     |    |     |
|---------------------|-----|----|-----|
|                     | max | °C | +55 |
| Storage temperature | min | °C | -40 |
|                     | max | °C | +70 |

#### Resistance & Protection

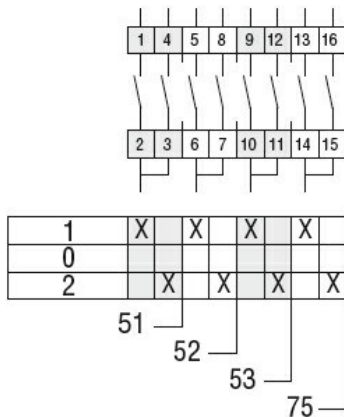
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|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

#### 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 |
|----------|----------------------------|