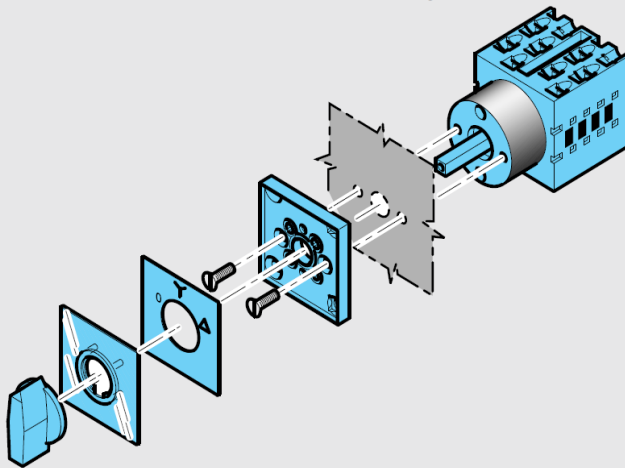




General characteristics

- IEC 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct (positive) opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP65 front degree of protection; IEC IP20 protection of contacts

Example of U version switch mounting



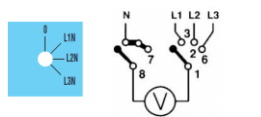
Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

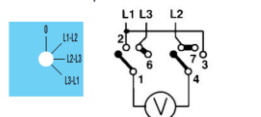
| TYPE | | GX16 | GX20 |
|--|---|--------------------|-------|
| Rated insulation voltage U_i | IEC/EN | V 690 | 690 |
| | UL/CSA | V 600 | 600 |
| Rated impulse withstand voltage U_{imp} | IEC/EN 60947-3 | kV 6 | 6 |
| | Conventional free air thermal current Ith IEC/EN UL/CSA (general purpose use) | A 16 | 20 |
| Rated operating voltage (switch disconnect) U_o | IEC/EN | V 440 | 440 |
| | Operational impulse voltage (switch disconnect) | kV 4 | 4 |
| Maximum fuse size for short-circuit protection | 10kA | A 20 | 20 |
| | 25kA | A 16 | 16 |
| | 50kA | A - | - |
| | 63kA | A - | - |
| Short-time withstand current I_{cw} | 1sec | A 250 | 250 |
| | Rated operational current I_e | AC1/AC21A (IEC/EN) | A 16 |
| Motor power for switches in AC utilisation categories | AC3 (IEC/EN) | 110V A 10 | 10 |
| | 3 phases | 220-230V A 8 | 8 |
| | | 380-400V A 4 | 6 |
| | | 660-690V A 3 | 3.7 |
| 1 phase (2 poles) | 110V kW 0.55 | 0.75 | |
| | 220-230V kW 1.5 | 1.8 | |
| AC23A (IEC/EN) | 380-440V kW 2.2 | 3 | |
| | 3 phases | 220-230V kW 3.7 | 4 |
| 380-440V kW 6.5 | 7.5 | 7.5 | |
| | 500-690V kW 7.5 | 7.5 | |
| 1 phase (2 poles) | 110V kW 0.75 | 0.75 | |
| | 220-230V kW 1.8 | 2.2 | |
| 380-440V kW 3 | 3.5 | 3.5 | |
| | Motor power for direct-on-line control (UL/CSA-DOL) | 120V HP 1.5 | 1.5 |
| 3 phases | 230V HP 3 | 3 | |
| | 480V HP 5 | 5 | |
| | 600V HP 5 | 5 | |
| | 1 phase (2 poles) | 120V HP 0.75 | 0.75 |
| 230V HP 1 | 1.5 | | |
| Motor power for switches in DC utilisation categories | 1 contact | 48V A 16 | 20 |
| | DC21A | 60V A 16 | 20 |
| | I _e | 110V A 4 | 4 |
| | | 220V A 0.5 | 0.6 |
| DC23A | 440V A 0.25 | 0.25 | |
| | I _e | 24V A 16(1) | 20(1) |
| 48V A 16(2) | | 20(2) | 20(3) |
| | 60V A 16(3) | 20(3) | 10(3) |
| No. of contacts connected in series are indicated in brackets | | 110V A 10(3) | 10(3) |
| | 220V A 7(4) | 8(4) | |

| Part No | Description | Front Plate (mm) |
|---------|---|------------------|
| GX1668U | 16A Voltmeter switch Phase-Neutral L1-N/L2-N/L3-N - 2 wafers - Scheme 68 | 48x48 |
| GX1667U | 16A Voltmeter switch Phase-Phase L1-L2/L2-L3/L3-L1 - 2 wafers - Scheme 67 | 48x48 |
| GX1697U | 16A Ammeter switch Direct L1-L2-L3 readings - 5 wafers - Scheme 97 | 48x48 |
| GX1698U | 16A Ammeter switch L1-L2-L3 readings via CT's - 3 wafers - Scheme 98 | 48x48 |

68 - Phase-neutral voltmeter switch



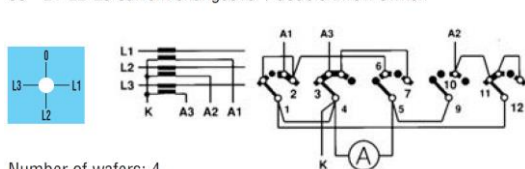
67 - Phase-phase voltmeter switch



Number of wafers: 2
Switching angle: 30°

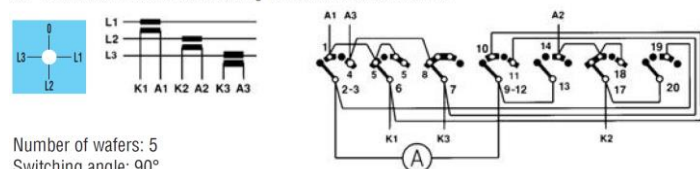
Number of wafers: 2
Switching angle: 30°

98 - L1-L2-L3 current changeover / double throw switch



Number of wafers: 4
Switching angle: 90°

97 - Ammeter switch direct reading or via current transformer



Number of wafers: 5
Switching angle: 90°

| TYPE | | GX16 | GX20 |
|-------------------------|-------------------|---------------------------|-------------------|
| Mechanical life | cycles | 5x10 ⁶ | 5x10 ⁶ |
| Terminal screw | M | 3 | 3 |
| Tightening torque | max | Nm 0.5 | 0.8 |
| Conductor cross section | max. r/f | 2 mm ² 2.5/2.5 | 2.5/2.5 |
| | 2 AWG | 14/14 | 14/14 |
| min. r/f | 2 mm ² | 0.5/0.5 | 0.5/0.5 |
| | 2 AWG | 20/20 | 20/20 |

r: rigid/solid
f: flexible/stranded