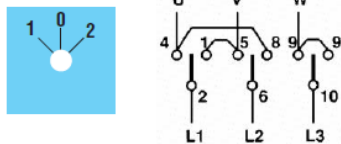




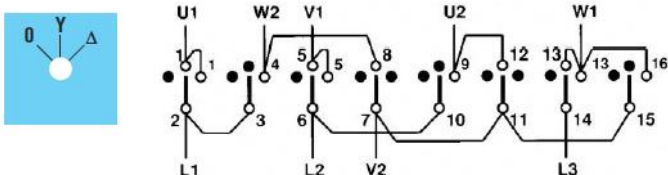
Part No	Description	Front Plate (mm)
GX2011U	20A Reversing switch 3 pole - 3 wafers - Scheme 11	48x48
GX2012U	20A Star Delta switch - 4 wafers - Scheme 12	48x48

11 - 3-pole reversing switch



Number of wafers: 3
Switching angle: 60°

12 - Star-delta switch

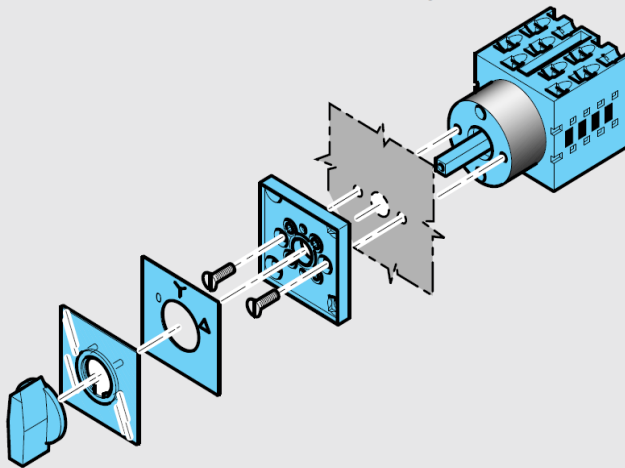


Number of wafers: 4
Switching angle: 60°

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
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 AWG	14/14
	min. r/f	2 mm ²	0.5/0.5
		2 AWG	20/20

r: rigid/solid
f: flexible/stranded

TYPE		GX16	GX20	
Rated insulation voltage ● Ui IEC/EN UL/CSA	V	690	690	
	V	600	600	
Rated impulse withstand voltage ● Uimp IEC/EN 60947-3	kV	6	6	
Conventional free air thermal current Ith IEC/EN UL/CSA (general purpose use)	A	16	20	
	A	12	15	
Rated operating voltage (switch disconnect) ●	V	440	440	
Operational impulse voltage (switch disconnect)	kV	4	4	
Maximum fuse size for short-circuit protection	10kA	A	20	
In (gG)	25kA	A	16	
	50kA	A	-	
	63kA	A	-	
Short-time withstand current Icw	1sec	A	250	
Rated operational current Ie AC1/AC21A (IEC/EN)	A	16	20	
	110V	A	10	
	AC15 (IEC/EN) 220-230V	A	8	
	380-400V	A	4	
	660-690V	A	3	
Motor power for switches in AC utilisation categories AC3 (IEC/EN)	220-230V	kW	3.5	
	3 phases 380-440V	kW	4.5	
	500-690V	kW	5.5	
	1 phase (2 poles) 110V	kW	0.55	
		220-230V	kW	1.5
		380-440V	kW	2.2
AC23A (IEC/EN)	220-230V	kW	3.7	
	3 phases 380-440V	kW	6.5	
	500-690V	kW	7.5	
	1 phase (2 poles) 110V	kW	0.75	
	220-230V	kW	1.8	
	380-440V	kW	3	
Motor power for switches in DC utilisation categories 1 contact DC21A	120V	HP	1.5	
	230V	HP	3	
	3 phases 480V	HP	5	
	600V	HP	5	
	1 phase (2 poles) 120V	HP	0.75	
		230V	HP	1
Motor power for switches in DC utilisation categories 1 contact DC23A	48V	A	16	
	60V	A	16	
	110V	A	4	
	220V	A	0.5	
	440V	A	0.25	
	24V	A	16(1)	
	48V	A	16(2)	
	60V	A	16(3)	
No. of contacts connected in series are indicated in brackets	110V	A	10(3)	
	220V	A	7(4)	