Product designation			Rotary cam switches
Product type designation			GF20

General characteristics

Switching diagram			124 - Multi-step 0-1-2-3 2 poles
N° of elements			3
Mounting form			U - Front mounting with black handle

Contact characteristics

Rated insulation voltage Ui			
	IEC/EN	V	480
	UL/CSA	V	240
Rated impulse withstand voltage Uimp		kV	4
Conventional free air thermal current Ith			
	IEC/EN	A	20
	UL/CSA	A	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	A	20
	15kA	A	20
	25kA	A	20
Rated short time current Icw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current Ie IEC/EN			
AC1/AC21A			
		A	20
AC15			
	110V	A	10
	220/230V	A	8
	380/400V	A	6
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	3
	380/440V	kW	5
Single-phase AC-3			
	110V	kW	0.5
	220/230V	kW	1.5
	380/440V	kW	2
Three-phase AC23A			
	220/230V	kW	4
	380/440V	kW	7.5
Single-phase AC23A			
	110V	kW	0.75
	220/230V	kW	2
	380/440V	kW	2.5
Rated operational current in DC			
DC21A			
	48V	A	20
	60V	A	20

		110V	A	4	
		220V	A	0.7	
		440V	A	0.2	
DC13					
		24V	A	6	
		48V	A	6	
		60V	A	3	
		110V	A	1	
		220V	A	0.4	
		440V	A	0.15	
Power dissipation			W	0.8	

Mechanical features

Terminals screw				M3
Tightening torque for terminals max			Nm	0.5
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	mm²	0.5
		Max	mm²	2.5
	Conductor size (IEC) - Rigid cable			
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life			cycles	1×10^{6}

UL technical data

Motor power for direct-on-line control				
	for three-phase motor			
		240V	HP	3
	for single-phase motor			
		240V	HP	1

Ambient conditions

Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
Terminals IP degree	IP20

Dimensions

ROTARY CAM SWITCH GF SERIES, MULTI-STEP 0-1-2-3, 2 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM
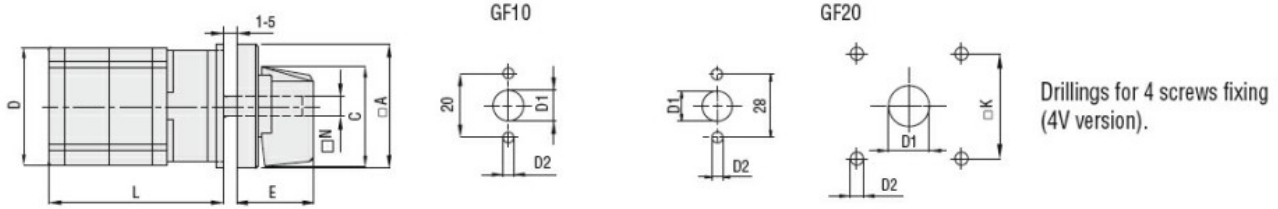
| Series | Dimensions | | | | | | | | L   Number of elements | | | | | | | | | | | | |
|--------|------|------|----|-----|-----|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|
| | □A | C | D | ØD1 | ØD2 | E | □K | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| GF10 | 30 | 24 | 29 | 9 | 3.2 | 18.5 | – | Ø5 | 40 | 52 | 64 | 76 | 88 | 100 | 112 | 124 | – | – | – | – |
| GF20 | 48 | 39.5 | 36 | 12 | 5 | 26.5 | 36 | □6 | 44 | 57.5 | 71 | 84.5 | 98 | 111.5 | 125 | 138.5 | 152 | 165.5 | 179 | 192.5 |

Wiring diagrams
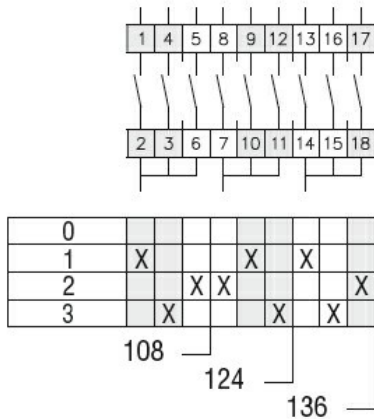
Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

cULus

EAC

ETIM classification

ETIM 8.0	EC001029 - Selector switch, complete