

General characteristics

Switching diagram	109 - Multi-step 0-1-2-3-4 1 pole
N° of elements	2
Mounting form	U - Front mounting with black handle

Contact characteristics

Rated insulation voltage U_i	IEC/EN	V	480
	UL/CSA	V	240
Rated impulse withstand voltage U_{imp}		kV	4
Conventional free air thermal current I_{th}	IEC/EN	A	10
	UL/CSA	A	10
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	16
Rated short time current I_{cw}	1s	kA	250
Conductivity			10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A		
		A	10
	AC15		
	110V	A	5
	220/230V	A	3
	380/400V	A	2
	Rated operational power in AC		
	Three-phase AC-3		
	220/230V	kW	1.5
	380/440V	kW	2.2
	Single-phase AC-3		
	110V	kW	0.3
	220/230V	kW	0.55
	380/440V	kW	0.75
	Three-phase AC23A		
	220/230V	kW	1.8
	380/440V	kW	3
	Single-phase AC23A		
	110V	kW	0.7
	220/230V	kW	0.75
	380/440V	kW	1.1
Rated operational current in DC	DC21A		
	48V	A	10
	60V	A	7
	110V	A	2
	220V	A	0.7
	440V	A	0.2
	DC13		
	24V	A	3

	48V	A	3
	60V	A	2
	110V	A	1
	220V	A	0.3
	440V	A	0.1
Power dissipation		W	0.4

Mechanical features

Terminals screw			2.5M
Tightening torque for terminals max		Nm	0.4

Conductor size

AWG - Rigid cable

min	AWG	20
Max	AWG	14

AWG - Flexible cable

min	AWG	20
Max	AWG	14

Conductor size (IEC) - Flexible cable

min	mm ²	0.5
Max	mm ²	1.5

Conductor size (IEC) - Rigid cable

min	mm ²	0.5
Max	mm ²	1.5

Mechanical life		cycles	1x10 ⁶
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UL technical data

Motor power for direct-on-line control

for three-phase motor

240V	HP	2
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for single-phase motor

240V	HP	0.75
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Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

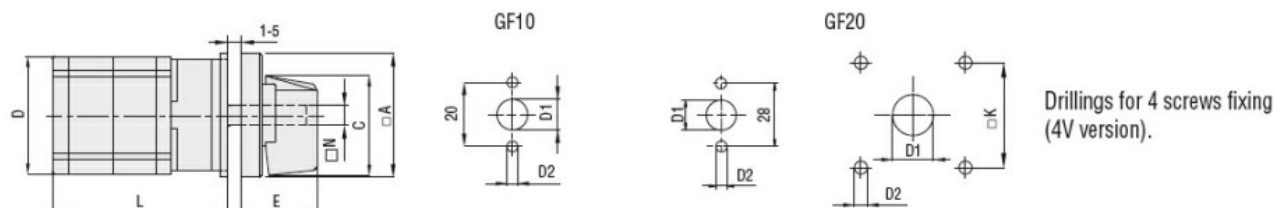
min	°C	-40
max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
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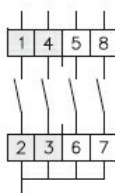
Terminals IP degree	IP20
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Dimensions



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



0				
1	X			
2			X	
3		X		
4				X

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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