

**General characteristics**

Switching diagram	68 - Voltmeter switch for phase-neutral voltages
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
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
	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 <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	1.5
Conductor size (IEC) - Rigid cable			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	1.5

Mechanical life		cycles	1x10 <sup>6</sup>
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**UL technical data**

Motor power for direct-on-line control			
for three-phase motor			
	240V	HP	2
for single-phase motor			
	240V	HP	0.75

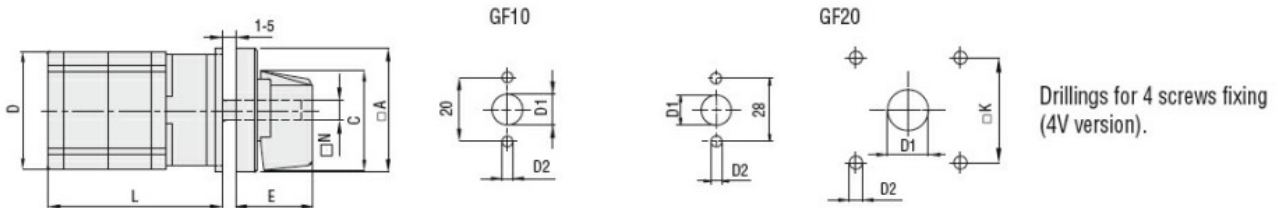
**Ambient conditions**

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

**Resistance & Protection**

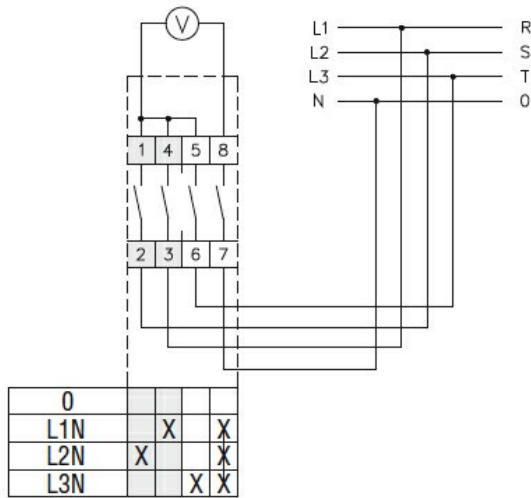
Frontal IP degree		IP40
Terminals IP degree		IP20

**Dimensions**



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