

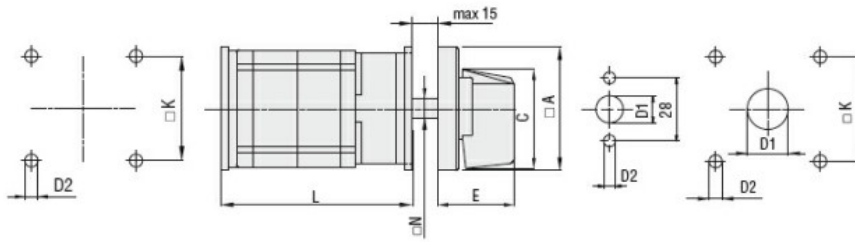
**General characteristics**

Switching diagram	68 - Voltmeter switch for phase-neutral voltages
N° of elements	2
Mounting form	O - Rear mounting with black handle

**Contact characteristics**

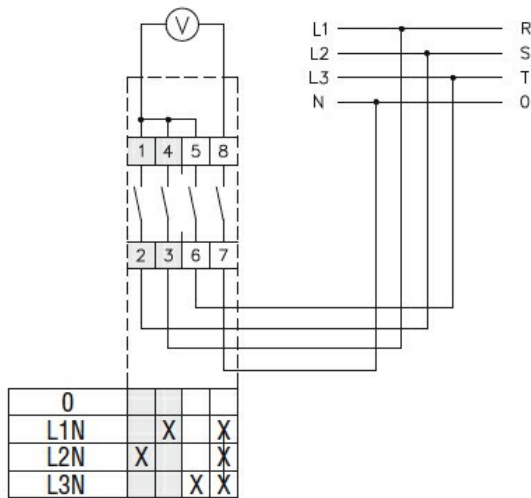
Rated insulation voltage $U_i$	IEC/EN	V	480
	UL/CSA	V	240
Rated impulse withstand voltage $U_{imp}$		kV	4
Conventional free air thermal current $I_{th}$	IEC/EN	A	20
	UL/CSA	A	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	20
	15kA	A	20
	25kA	A	20
Rated short time current $I_{cw}$	1s	kA	250
	Conductivity		
Operational current $I_e$ 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
<b>Mechanical features</b>			
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	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
Conductor size (IEC) - Rigid cable	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
Mechanical life		cycles	1x10 <sup>6</sup>
<b>UL technical data</b>			
Motor power for direct-on-line control			
for three-phase motor	240V	HP	3
for single-phase motor	240V	HP	1
<b>Ambient conditions</b>			
Temperature			
Operating temperature	min	°C	-25
	max	°C	+55
Storage temperature	min	°C	-40
	max	°C	+70
<b>Resistance &amp; Protection</b>			
Frontal IP degree			IP40
Terminals IP degree			IP20
<b>Dimensions</b>			



Series	Dimensions							L Number of elements											
	□A	C	ØD1	ØD2	E	□K	N	1	2	3	4	5	6	7	8	9	10	11	12
GF20	48	39.5	12	5	26.5	36	□6	46	59.5	73	86.5	100	113.5	127	140.5	154	167.5	181	194.5

**Wiring diagrams**



**Certifications and compliance**

**Compliance**

- CSA C22.2 n° 14

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- IEC/EN/BS 60947-1

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- IEC/EN/BS 60947-3

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- IEC/EN/BS 60947-5-1

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- UL60947-4-1

**Certificates**

- cULus

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- EAC

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete