

Product designation	Rotary cam switches		
Product type designation	GF20		
<b>General characteristics</b>			
Switching diagram	12 - Star-delta motor starter switch		
N° of elements	4		
Mounting form	O88 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers		
<b>Contact characteristics</b>			
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 le 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
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Mechanical features

Terminals screw	M3
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Tightening torque for terminals max	Nm	0.5
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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>
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UL technical data

Motor power for direct-on-line control

for three-phase motor

240V	HP	3
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for single-phase motor

240V	HP	1
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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

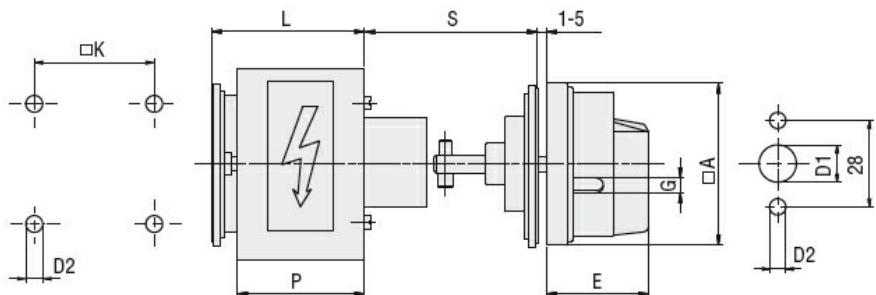
Frontal IP degree

IP40
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Terminals IP degree

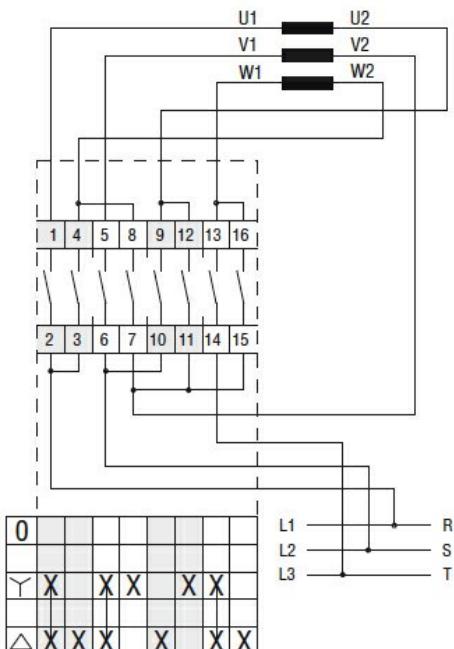
IP20
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Dimensions



Series	Dimensions							L			
	□A	D1	D2	E	G	□K	S	1	2	3.....12	
GF20	48	12	5	34.2	5	36	45-55	46	59.5	73	194.5

#### 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