

Product designation				Rotary cam switches
Product type designation				GF20
General characteristics				
Switching diagram				12 - Star-delta motor starter switch
N° of elements				4
Mounting form				O48 - Modular service cover for 35mm din rail mounting with black handle
Contact characteristics				
Rated insulation voltage Ui	IEC/EN UL/CSA	V V	480 240	
Rated impulse withstand voltage Uimp		kV	4	
Conventional free air thermal current Ith	IEC/EN UL/CSA	A A	20 15	
Rated operational voltage		V	480	
Rated operational impulse voltage		kV	4	
Maximum fuse size for short-circuit protection In (gG)	10kA 15kA 25kA	A A A	20 20 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 220/230V 380/400V	A A A	10 8 6	
Rated operational power in AC				
Three-phase AC-3	220/230V 380/440V	kW kW	3 5	
Single-phase AC-3	110V 220/230V 380/440V	kW kW kW	0.5 1.5 2	
Three-phase AC23A	220/230V 380/440V	kW kW	4 7.5	
Single-phase AC23A	110V 220/230V 380/440V	kW kW kW	0.75 2 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 ²	0.5
Max	mm ²	2.5

Conductor size (IEC) - Rigid cable

min	mm ²	0.5
Max	mm ²	2.5

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	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

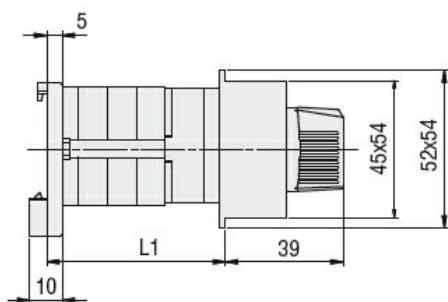
min	°C	-40
max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
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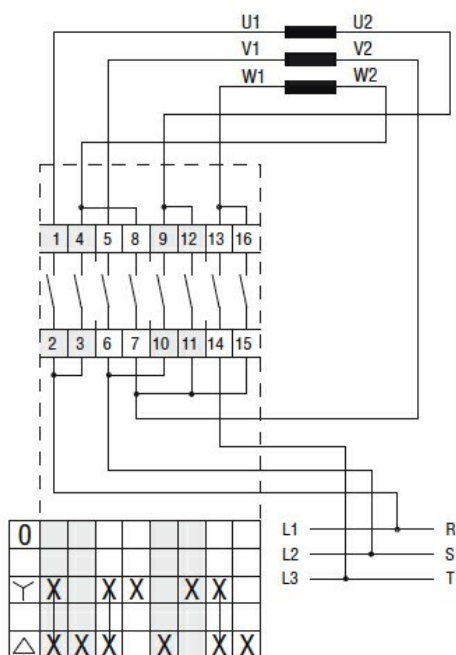
Terminals IP degree	IP20
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Dimensions



Series	L1		
	1	2	3
GF20	40	53.5	67

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