ENERGY AND AUTOMATION

electric ROTARY CAM SWITCH GF SERIES, 3-PHASE MOTOR REVERSING SWITCH 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam
-			switches
Product type designation General characteristics			GF20
General characteristics			11 - 3-phase
Switching diagram			motor reversing switch
N° of elements			3
Mounting form			O - Rear mounting with black handle
Contact characteristics			
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	IEO/EN	۸	20
	IEC/EN UL/CSA	A	20 15
Rated operational voltage	UL/CSA	A V	480
Rated operational voltage Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)		ΚV	
maximam russ size for short should protostion in (gs)	10kA	Α	20
	15kA	Α	20
	25kA	Α	20
Rated short time current Icw			_
	1s	Α	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		Α	20
AC15	4.40)./		4.0
	110V	A	10
	20/230V 80/400V	A A	8 6
Rated operational power in AC	60/400 V	Α	0
Three-phase AC-3			
	20/230V	kW	3
	80/440V	kW	5
Single-phase AC-3			_
	110V	kW	0.5
2	20/230V	kW	1.5
	80/440V	kW	2
Three-phase AC23A			
	20/230V	kW	4
	80/440V	kW	7.5
Single-phase AC23A	110\/	12///	0.75
	110V	kW	0.75 2
	20/230V 80/440V	kW kW	2.5
Rated operational current in DC	00/7 7 0 V	17.4.4	2.0
DC21A			
	48V	Α	20



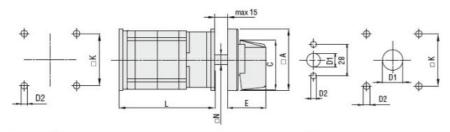
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Conductor size AWG - Rigid cable AWG - Flexible cable AWG -
DC13
Max Max
DC13
A
ABW
ABV
110V
Power dissipation W 0.8
Add A 0.15
Power dissipation W 0.8 Mechanical features
Max
Max
Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor 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 mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 1x10°
Tightening torque for terminals max
AWG - Rigid cable
AWG - Rigid cable min
Max AWG 20 Max AWG 12
Max AWG 12
AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Max mm² 2.5 Mechanical life cycles 1x106
min AWG 20 Max AWG 12
Max AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 1x106
Conductor size (IEC) - Flexible cable
min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 min mm² 0.5 Max mm² 2.5 Mechanical life cycles 1x106
Max mm² 2.5
Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 1x106
min mm² 0.5 Max mm² 2.5 Mechanical life cycles 1x10 ⁶
Max mm² 2.5 Mechanical life cycles 1x10 ⁶
Mechanical life cycles 1x10 ⁶
- <u></u>
oli technical data
Mateur payor for direct on line control
Motor power for direct-on-line control
for three-phase motor
240V HP 3
for single-phase motor
240V HP 1
Ambient conditions
Temperature
Operating temperature
min °C -25
max °C +55
Characte town and true
Storage temperature
min °C -40
min °C -40 max °C +70
min °C -40 max °C +70 Resistance & Protection
min °C -40 max °C +70 Resistance & Protection Frontal IP degree IP40
min °C -40 max °C +70 Resistance & Protection

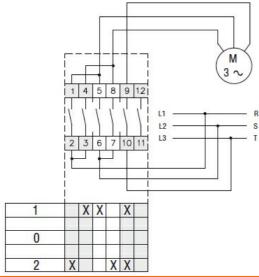
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Series			D	imensio	ns							LI	Number	of eler	ments				
Selles	□A	С	ØD1	ØD2	E	□K	N	1	2	3	4	5	6	7	8	9	10	11	12
GF20	48	39.5	12	5	26.5	36	□6	46	59.5	73	86.5	100	113.5	127	140.5	154	167.5	181	194.5

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

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