

ROTARY CAM SWITCH GF SERIES, 3-PHASE MOTOR REVERSING SWITCH 20A, MODULAR SERVICE COVER FOR 35MM DIN REAL MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation Switches Switches Switches Scale Switches					Rotary cam
Semeral characteristics	Product designation				
Switching diagram 11 - 3-phase motor reversing switch switch N° of elements 3 Mounting form U47 - Snap on from mounting with black handle for hole diam. 22mm finxing Contact characteristics Rated insulation voltage U1 IEC/EN V 480 Rated impulse withstand voltage U1mp IEC/EN X 240 Conventional free air thermal current Ith IEC/EN A 20 Conventional free air thermal current Ith IEC/EN A 15 Rated operational voltage V 480 Rated operational impulse voltage K V 40 Rated short time current Icw 1 10KA A 20 Rated short time current Icw 1 1s kA 20 Conductivity 1 10K A 20 Operational current Ic IEC/EN A 20 AC16 1 10V A 10 AC16 1 10V A 1 AC16 2 20/230V KW 8 380/440V KW 5					GF20
Switching diagram motor reversible switch N° of elements 3 Mounting form U47 - Snap on mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 2 mm in mounting with black handle for bled diam. 3 mm in mounting with bled handle for bled diam. 3 mm in mounting with bled handle for bled diam. 3 mm in mounting with bled handle for bled diam. 3 mm in mounting with bl	General characteristic	S			
N° of elements	Switching diagram				-
N° of elements 3 Mounting form U47 - Snap on from mounting with black handle for from mounting with black handle for hole diam. 22mm finxing Contact characteristics Rated insulation voltage Ui IEC/EN UL/CSA V 240 Rated impulse withstand voltage Uimp kV 4 Conventional free air thermal current Ith IEC/EN UL/CSA A 20 Rated operational voltage kV 4 Rated operational impulse voltage kV 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 Rated short time current Icw 1 s kA 250 Conductivity 2 s kA 250 Conductivity 2 s kA 250 Conductivity 1 s kA 250 Conductivity 2 s kA 250 Conductivity 2 s kA 250 Confidence 2 s kA 250 Rated operational power in AC	Switching diagram				
Mounting form War - Snap on from mounting with black handle for hole diam. 22mm finxing Contact characteristics Rated insulation voltage Ui IEC/EN U/C/SA V 240 Rated impulse withstand voltage Uimp kV 4 Conventional free air thermal current Ith IEC/EN A 20 U/C/SA 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 1s kA 250 Conductivity 10/5 mA/V Operational current I EC/EN AC1/AC21A 20/20/200 A 8 300/400 A 6 Rated operational power in AC Three-phase AC-3 110V A 10 220/230V kW 3 6 Rated operational power in AC Three-phase AC-3 220/230V kW 5 5 Single-phase AC-3 220/230V kW 1.5 300/440V kW 5 Three-phase AC23A 220/230V kW 4 4 300/440V kW 7.5 Single-phase AC23A 110V kW 0.75 220/230V kW 2 2 20/230V kW 2 2 2 20/230V kW 2 2 20/230V kW 2	N° of elements				
Mounting form Section Section					
Contact characteristics					
Contact characteristics	Mounting form				
Rated insulation voltage Ui					
Rated insulation voltage Uimp	Contact characteristics	3			ZZIIIII IIIIXIIIg
Conventional free air thermal current lth					
Rated impulse withstand voltage Ulimp	ratou modiation voltag	,	IEC/EN	V	480
Conventional free air thermal current Ith					
IEC/EN	Rated impulse withsta	nd voltage Uimp		kV	4
Rated operational voltage V					
Rated operational voltage				Α	20
Rated operational impulse voltage			UL/CSA		
Maximum fuse size for short-circuit protection In (gG)					
10kA				kV	4
Table 15kA A 20 20 25kA A 20 20 20 20 20 20 20	Maximum fuse size fo	r short-circuit protection In (gG)	401.0		
Rated short time current Icw 1s					
Rated short time current lcw					
Conductivity 10/5 mA/V Operational current le IEC/EN A 20 AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 8 830/400V A 6 Rated operational power in AC 220/230V KW 3 Three-phase AC-3 220/230V 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 1.5 380/440V KW 7.5 220/230V KW 7.5 Single-phase AC23A 220/230V KW 7.5 Single-phase AC23A 110V KW 0.75 Single-phase AC23A 220/230V KW 7.5 ARated operational current in DC 110V KW 0.75 220/230V KW 2 230/240V KW 2	Rated short time curre	ant Icw	ZJKA		
Conductivity	rated short time carre	TIL TOW	1s	kA	250
AC1/AC21A	Conductivity				
AC1/AC21A AC15 AC15 110V A 10 220/230V A 8 380/400V A 6 Rated operational power in AC Three-phase AC-3 Single-phase AC-3 Three-phase AC-3 110V kW 0.5 220/230V kW 1.5 380/440V kW 5 Single-phase AC23A Three-phase AC23A 220/230V kW 4 1.5 380/440V kW 7.5 Single-phase AC23A 110V kW 0.75 220/230V kW 4 380/440V kW 7.5 Single-phase AC23A 110V kW 0.75 220/230V kW 2 380/440V kW 2.5		IEC/EN			
AC15 110V	•				
110V				Α	20
Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5		AC15			_
Rated operational power in AC					
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 7.5 Rated operational current in DC					
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 7.5 Single-phase AC23A 110V kW 0.75 220/230V kW 2 380/440V kW 2.5 Rated operational current in DC			380/400V	A	6
220/230V	kated operational pow				
Single-phase AC-3 110V kW 0.5 220/230V kW 1.5 380/440V kW 2 2 20/230V kW 4 380/440V kW 7.5 220/230V kW 7.5 220/230V kW 2 2 20/230V kW 2 2 2 20/230V kW 2 2 2 20/230V kW 2 2 2 2 2 2 2 2 2		Three-phase AC-3	220/230\/	ا\\\ ا	2
Single-phase AC-3					
110V kW 0.5 220/230V kW 1.5 380/440V kW 2 220/230V kW 4 380/440V kW 7.5 380/440V kW 7.5 380/440V kW 0.75 220/230V kW 2 220/230V kW 2 220/230V kW 2 280/440V kW 2.5 Rated operational current in DC		Single-phase AC-3	300/1101		
220/230V		- 3 - France 112 -	110V	kW	0.5
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				kW	1.5
220/230V			380/440V	kW	2
380/440V kW 7.5		Three-phase AC23A			
Single-phase AC23A					
110V kW 0.75 220/230V kW 2 380/440V kW 2.5 Rated operational current in DC			380/440V	kW	7.5
220/230V kW 2 380/440V kW 2.5 Rated operational current in DC		Single-phase AC23A	4401	1.3.87	0.75
Rated operational current in DC					
Rated operational current in DC					
	Rated operational curr	ent in DC	JJU/770 V	17.4.4	2.0
	Sportal out				



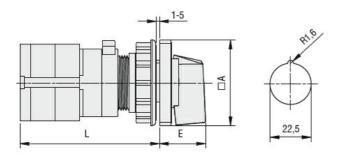
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		48V	Α	20
		60V	Α	20
		110V	Α	4
		220V	Α	0.7
		440V	A	0.2
	DC13	440 V		0.2
	DC13	241/	۸	C
		24V	A	6
		48V	A	6
		60V	A	3
		110V	A	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for t	erminals max		Nm	0.5
Conductor size				
	AWG - Rigid cable			
		min	AWG	20
		Max	AWG	12
	AWG - Flexible cable	IVIAX	7,110	12
	AVVO - I TEXIDIE CADIE	min	AWG	20
	0 1 (150) 51 31 11	Max	AWG	12
	Conductor size (IEC) - Flexible cable		2	
		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 ⁶
UL technical data				
Motor power for direct	-on-line control			
	for three-phase motor			
	·	240V	HP	3
	for single-phase motor			
	2.7	240V	HP	1
Ambient conditions				
Temperature				
remperature	Operating temperature			
	operating temperature	min	°C	-25
			°C	
	Character to the control of the cont	max	U .	+55
	Storage temperature		0.0	40
		min	°C	-40
		max	°C	+70
Resistance & Protecti	on			
Frontal IP degree				IP40
Terminals IP degree				IP20
Dimensions				



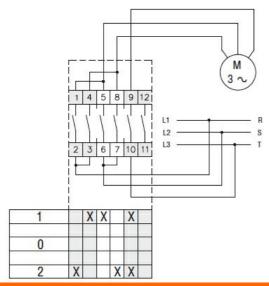
ENERGY AND AUTOMATION

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Series	Dimensions		L			
	□A	Е	1	2	3	8
GF10	30	18.5	60	72	84	144
GF20	48	26.5	56	69.5	83	150.5

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