

GF2012U ROTARY CAM SWITCH GF SERIES, STAR-DELTA MOTOR STARTER SWITCH 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam
Product type designation			switches GF20
General characteristics			0120
Switching diagram			12 - Star-delta motor starter switch
N° of elements			4
Mounting form			U - Front mounting with black handle
Contact characteristics			
Rated insulation voltage Ui			
	IEC/EN	V	480
Deter Providence Martine Report Providence	UL/CSA	V	240
Rated impulse withstand voltage Uimp		kV	4
Conventional free air thermal current Ith	IEC/EN	А	20
	UL/CSA	A	15
Rated operational voltage	00/007	 V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	А	20
	15kA	А	20
	25kA	А	20
Rated short time current Icw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A		А	20
AC15			
	110V	А	10
	220/230V	А	8
	380/400V	А	6
Rated operational power in AC			
Three-phase AC-3	000/0001/	1.1.47	0
	220/230V 380/440V	kW kW	3 5
Single-phase AC-3	300/440 V	K V V	5
Olligie plase AO O	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	А	20
	40 V	А	20

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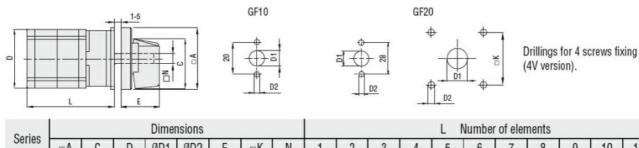


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		60V	А	20
		110V	A	4
		220V	А	0.7
		440V	А	0.2
	DC13			-
		24V	А	6
		48V	А	6
		60V	А	3
		110V	А	1
		220V	А	0.4
		440V	А	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for	terminals max		Nm	0.5
Conductor size				
	AWG - Rigid cable			
	č	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 ⁶
UL technical data			-,	-
Motor power for direc	t-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
	Storage temperature	max	Ŭ	
		min	°C	-40
		max	°C	+70
Resistance & Protect	ion	max	Ŭ	
Frontal IP degree				IP40
Terminals IP degree				IP20
Dimensions				
Dimensions				

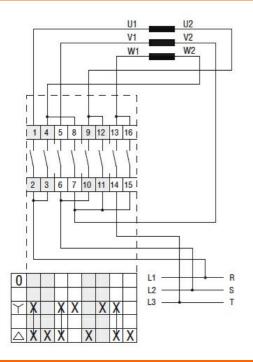


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Jerres	□A	C	D	ØD1	ØD2	E	□K	Ν	1	2	3	4	5	6	7	8	9	10	11	12
GF10	30	24	29	9	3.2	18.5	-	Ø5	40	52	64	76	88	100	112	124	-	-	-	-
GF20	48	39.5	36	12	5	26.5	36	□6	44	57.5	71	84.5	98	111.5	125	138.5	152	165.5	179	192.5

Wiring diagrams



Certifications and compliance

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		
		EC001029 -

Selector switch, complete

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