



ROTARY CAM SWITCH GF SERIES, MULTI-STEP 1-2-3, 2 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product type designation	Product designation			Rotary cam switches
Switching diagram 86 - Multi-step 1 - 2-3 2 poles N° of elements 3 Mounting form U - Front mounting with black handle Contact characteristics Rated insulation voltage Ui IEC/EN V 480 Conventional free air thermal current lth IEC/EN V 4 A 20 Conventional free air thermal current lth IEC/EN A 20 A 20 Rated operational voltage kV 4 480 Rated operational impulse voltage kV 4 480 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 A 20 Conductivity 10kA A 20 A 20 Conductivity A 10 200/20/200 A 8 8 AC1/AC21A A 20 20 Conduct	Product type designation			
Switching diagram 2.3 2 poles N° of elements 3 3 V	General characteristics			
Mounting form	Switching diagram			•
Mounting form Mounting with black handle Mounting with black handle	N° of elements			
Rated insulation voltage Ui	Mounting form			mounting with
IEC/EN V 480 UL/CSA V 240 Rated impulse withstand voltage Ulimp kV 4 V 4	Contact characteristics			
Rated impulse withstand voltage Limp	Rated insulation voltage Ui			
Rated impulse withstand voltage Uimp				
Conventional free air thermal current Ith		UL/CSA		
Commonweal Com			kV	4
Rated operational voltage	Conventional free air thermal current Ith			
Rated operational voltage				
Rated operational impulse voltage KV 4	Detect on earth and continue	UL/CSA		
Maximum fuse size for short-circuit protection In (gG) 10kA A 20 15kA A 20 25kA 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 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 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 2 Three-phase AC23A 220/230V kW 4 380/440V kW 7.5 Single-phase AC23A 110V kW 0.5 220/230V kW 1.5 380/440V kW 2 Three-phase AC23A 110V kW 0.5 220/230V kW 1.5 380/440V kW 2.5 Rated operational current in DC DC21A Rated operational current in DC DC21A			-	
10kA A 20 15kA A 20 25kA A 20 20 25kA A 20 20 25kA A 20 20 20 20 20 20 20			KV	4
15kA A 20 25kA A 20 25kA A 20 25kA A 20 25kA A 20 20 25kA A 20 20 25kA A 20 20 25kA A 250 20 25kA A 250 25kA A 20 25kA A 20 20 25kA 2	Maximum ruse size for short-circuit protection in (gG)	1014	۸	20
Rated short time current Icw				
Rated short time current lcw				
Three-phase AC-3 Three-phase	Rated short time current low	2010 (
Conductivity	raisa shertama sarrant isw	1s	kA	250
AC1/AC21A	Conductivity			
AC1/AC21A 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 110V kW 0.5 220/230V kW 1.5 380/440V kW 5 Three-phase AC23A 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 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 7.5 Rated operational current in DC DC21A				
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 2 Three-phase AC23A 220/230V 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 Rated operational current in DC DC21A 48V A 20				
110V			Α	20
Rated operational power in AC Three-phase AC-3	AC15			_
Rated operational power in AC		110V	Α	10
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 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 DC21A 48V A 20			Α	8
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 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		380/400V	A	6
220/230V	·			
Single-phase AC-3	Three-phase AC-3	000/000/		
Single-phase AC-3				
110V kW 0.5 220/230V kW 1.5 380/440V kW 2	Cinala phase AC 2	380/4407	KVV	5
220/230V	Single-phase AC-3	110\/	L/V 1	0.5
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				
220/230V	Three-phase AC23A	230/ 110 V		_
380/440V kW 7.5		220/230V	kW	4
Single-phase AC23A				
110V kW 0.75 220/230V kW 2 380/440V kW 2.5 2.5	Single-phase AC23A			
Rated operational current in DC DC21A 48V A 20		110V	kW	0.75
Rated operational current in DC DC21A 48V A 20		220/230V	kW	
DC21A 48V A 20		380/440V	kW	2.5
48V A 20	·			
	DC21A			
60V A 20				
		60V	А	20



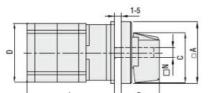


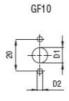
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		110V	Α	4
		220V	Α	0.7
		440V	Α	0.2
	DC13			
		24V	Α	6
		48V	A	6
		60V	A	3
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for te	erminals max		Nm	0.5
Conductor size				
2311440101 0120	AWG - Rigid cable			
	AWG - Nigiti Cable	min	AWG	20
		min	_	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	IVICA		
	Conductor size (IEC) - Nigid Cable	min	ma ma 2	0.5
		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			
	Tot omgre phase moter	240V	HP	1
Ambient conditions		2401		•
Temperature				
	Operating temperature			
		min	°C	-25
			0.0	+55
		max	°C	+55
	Storage temperature	max	-10	+55
	Storage temperature	max	°C	-40
	Storage temperature	min	°C	-40
Resistance & Protection				
Resistance & Protection		min	°C	-40 +70
Frontal IP degree		min	°C	-40 +70
		min	°C	-40 +70

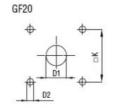


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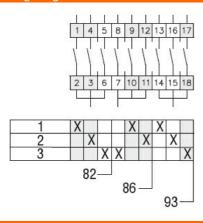




Drillings for 4 screws fixing (4V version).

Series	Dimensions							L Number of elements												
	□A	С	D	ØD1	ØD2	Е	□K	N	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

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