

## ROTARY CAM SWITCH GF SERIES, CHANGEOVER SWITCH 3 POLES 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product type designation   Sqr 20   S	Product designation			Rotary cam switches
Switching diagram   Sa - Changeous witch 3 poles - 2 speed motor starting with 3 speed motor starting with spearate windings   N° of elements   Sa   Sa   O - Rear windings   O - Rear w	Product type designation			GF20
Switching diagram         switch 3 poles - 2 speed motor starting with separate windings           N° of elements         3           Mounting form         - Rear mounting with black handle	General characteristics			•
Mounting form	Switching diagram			switch 3 poles - 2 speed motor starting with separate
Mounting form   Section 2016   Sec	N° of elements			3
Rated insulation voltage Ui				mounting with
Rated impulse withstand voltage Uimp				
Rated impulse withstand voltage Uimp	Rated insulation voltage Ui			
Rated impulse withstand voltage Uimp		= :	=	
Conventional free air thermal current Ith		UL/CSA		
IEC/EN   A   20			kV	4
Rated operational voltage	Conventional free air thermal current Ith		_	
Rated operational voltage   V				
Rated operational impulse voltage   kV 4		UL/CSA		
Maximum fuse size for short-circuit protection In (gG)  10kA A 20 15kA A 20 25kA A 20  Rated short time current lcw  1s kA 250  Conductivity  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  110V kW 0.5 220/230V kW 1.5 380/440V kW 5  Single-phase AC23A  220/230V kW 1.5 380/440V 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 7.5  Single-phase AC23A  110V kW 0.75 220/230V kW 7.5  Single-phase AC23A  110V kW 0.75 220/230V kW 7.5				
10kA			KV	4
Table	Maximum fuse size for short-circuit protection in (gG)	401-4	^	00
Rated short time current Icw   1s				
Rated short time current Icw				
Three-phase AC-3   Three-phase AC23A   Three	Rated short time current low	ZJKA		20
Conductivity	Nated Short time current icw	1e	kΔ	250
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  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 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 4 380/440V kW 7.5	Conductivity	10	10 (	
AC1/AC21A  AC15  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 5  Single-phase AC23A  110V 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				10/01111/01
AC15  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 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  110V kW 0.75 220/230V kW 4 380/440V kW 7.5	•			
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 3 380/440V kW 7.5  Single-phase AC23A  220/230V kW 7.5  Single-phase AC23A  110V kW 0.5 220/230V kW 1.5 380/440V kW 2  Three-phase AC23A  110V kW 0.75 220/230V kW 4 380/440V kW 7.5	7.6 17.16217.		Α	20
110V	AC15			
Rated operational power in AC   Three-phase AC-3   220/230V   kW   3   380/440V   kW   5		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 7.5  Single-phase AC23A  110V kW 0.75 220/230V kW 4 380/440V kW 7.5			Α	
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		380/400V	Α	6
220/230V	Rated operational power in AC			
380/440V   kW   5	Three-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 4 380/440V kW 7.5  Single-phase AC23A  110V kW 0.75 220/230V kW 2 380/440V kW 2.5				
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		380/440V	kW	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	Single-phase AC-3			
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				
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				
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	Three pho A 000A	380/440V	KVV	
380/440V kW 7.5  Single-phase AC23A  110V kW 0.75 220/230V kW 2 380/440V kW 2.5	inree-phase AC23A	220/2201/	1/1/1	1
Single-phase AC23A  110V kW 0.75  220/230V kW 2  380/440V kW 2.5				
110V kW 0.75 220/230V kW 2 380/440V kW 2.5	Single phase AC22A	30U/44UV	ĸvv	ι.υ
220/230V kW 2 	Siligie-pliase ACZSA	110\/	k/۷۱	0.75
	Rated operational current in DC	333/ H T V		

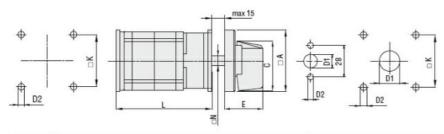


## ROTARY CAM SWITCH GF SERIES, CHANGEOVER SWITCH 3 POLES 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

	DC21A			
	DOZIA	48V	Α	20
		60V	A	20
		110V	A	4
		220V	A	0.7
		440V	A	0.7
	DC13	440 V	^	0.2
	DC13	24V	Α	6
		48V	A	6
		60V	A	3
		110V	A	1
		220V	A	0.4
		440V		0.4
Dower dissination		440 V	— A W	0.8
Power dissipation  Mechanical features			VV	0.0
Terminals screw				M3
			Nine	
Tightening torque for te	erminals max		Nm	0.5
Conductor size	AWO BUT II			
	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 <sup>6</sup>
UL technical data				
Motor power for direct-				
	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		· <u> </u>	
		min	°C	-40
		max	°C	+70
Resistance & Protection	on			
Frontal IP degree				IP40
Terminals IP degree				IP20
Dimensions				

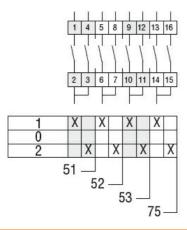
**ENERGY AND AUTOMATION** 

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Corios	Dimensions							L Number of elements											
Series	□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