

**ENERGY AND AUTOMATION** 

## ROTARY CAM SWITCH GF SERIES, CHANGEOVER SWITCH WITHOUT 0, 4 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE WITHOUT FRONT PLATE FOR HOLE Ø22MM FIXING

Product designation			Rotary cam
			switches
Product type designation			GF20
General characteristics			60 Changaayar
Switching diagram			69 - Changeover switch without 0 4
N° of elements			poles 4
N OI Elements			U11 - Front
			mounting with
Mounting form			black handle
Wodning form			without front plate
			for hole diam.
Contact characteristics			22mm fixing
Rated insulation voltage Ui			
Traced insulation voitage of	IEC/EN	V	480
	UL/CSA	V	240
Rated impulse withstand voltage Uimp		kV	4
Conventional free air thermal current Ith			_
	IEC/EN	Α	20
	UL/CSA	Α	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	Α	20
	15kA	Α	20
B. H. W.	25kA	Α	20
Rated short time current lcw	4	•	050
One directivity.	1s	A	250
Conductivity  Operational current to IEC/EN			10/5 mA/V
Operational current le IEC/EN AC1/AC21A			
ACI/ACZIA		Α	20
AC15			
7.6.16	110V	Α	10
	220/230V	Α	8
	380/400V	Α	6
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	3
	380/440V	kW	5
Single-phase AC-3			0.5
	110V	kW	0.5
	220/230V	kW	1.5
Three-phase AC23A	380/440V	kW	2
Tillee-priase AO23A	220/230V	kW	4
	380/440V	kW	7.5
Single-phase AC23A	000/ <del>1 1</del> 0 V	17.4.4	
Julgio Pilado / 1020/ 1	110V	kW	0.75
	220/230V	kW	2
	380/440V	kW	2.5
Rated operational current in DC			



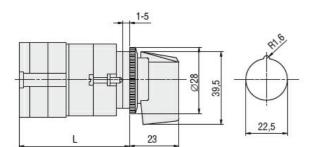
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	DC21A			
	DOZIA	48V	Α	20
		60V	A	20
		110V	A	4
		220V	A	0.7
		440V	Α	0.2
	DC13		- , ,	
	50.0	24V	Α	6
		48V	Α	6
		60V	Α	3
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical features				0.0
Terminals screw				M3
Tightening torque for te	arminals may		Nm	0.5
Conductor size	annias max		INIII	0.5
Conductor Size	AWG - Rigid cable			
	AWG - Rigid Cable	min	AWG	20
		Max	AWG	12
	AWG - Flexible cable	IVIAX	AVVG	12
	AVVG - Flexible Cable	min	AWG	20
		min Mov		20
	Conductor size (IEC). Florible coble	Max	AWG	12
	Conductor size (IEC) - Flexible cable	!	2	0.5
		min	mm²	0.5
	O I . ( (IEO) . Birit I I	Max	mm²	2.5
	Conductor size (IEC) - Rigid cable		2	0.5
		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	0.401.4		
		240V	HP	1
Ambient conditions Temperature				
· oporata.o	Operating temperature			
	oporating temperature	min	°C	-25
		max	°C	+55
	Storage temperature	max		
	Otorago temperature	min	°C	-40
			°C	+70
Resistance & Protectio	n	max		710
	····			IP40
Frontal IP degree				
Terminals IP degree				IP20
Dimensions				

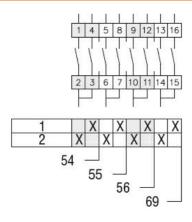
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Series	L			
	1	2	3	8
GF20	54.5	68	81.5	203

## 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