

ENERGY AND AUTOMATION

GF2019O88 ROTARY CAM SWITCH GF SERIES, DAHLANDER MOTOR CONTROL SWITCH 0-1-2, 20A, electric FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 48X48MM

Product designation			Rotary cam
-			switches
Product type designation General characteristics			GF20
Switching diagram			19 - Dahlander motor control switch 0-1-2
N° of elements			4
Mounting form			O88 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers
Contact characteristics			
Rated insulation voltage Ui	IEC/EN UL/CSA	V V	480 240
Rated impulse withstand voltage Uimp Conventional free air thermal current Ith		kV	4
Conventional free air thermal current ith	IEC/EN UL/CSA	A A	20 15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA 15kA 25kA	A A A	20 20 20
Rated short time current Icw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
A 045		A	20
AC15	110V	А	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	44014		o =
	110V	kW	0.5
	220/230V 380/440V	kW kW	1.5 2
Three-phase AC23A	300/440 V	K V V	2
·	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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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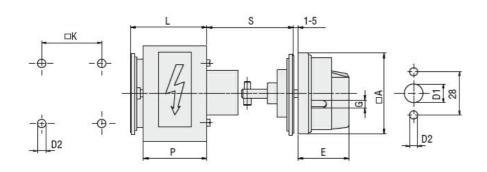
Rated operational cu	rrent in DC			
	DC21A			
		48V	А	20
		60V	А	20
		110V	A	4
		220V	A	0.7
		440V	A	0.2
	<b>D</b> 010	440 V	A	0.2
	DC13	2.07		2
		24V	Α	6
		48V	Α	6
		60V	А	3
		110V	Α	1
		220V	А	0.4
		440V	А	0.15
Power dissipation			W	0.8
Mechanical features			••	
Terminals screw				M3
	terminale may		NI	
Tightening torque for	terminais max		Nm	0.5
Conductor size				
	AWG - Rigid cable			
		min	AWG	20
		Max	AWG	12
	AWG - Flexible cable			
		min	AWG	20
		Max	AWG	12
	Conductor size (IEC) - Flexible cable	THEOR	/	
		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 direc	ct-on-line control			
·	for three-phase motor			
		240V	HP	3
	for single-phase motor	240 V		0
	for single-phase motor	240V	HP	4
		240 V	ΠF	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protect			5	
Frontal IP degree				IP40
Terminals IP degree				IP20
Dimensions				

GF2019O88



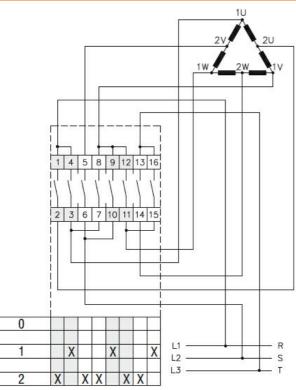
**GF2019088** ROTARY CAM SWITCH GF SERIES, DAHLANDER MOTOR CONTROL SWITCH 0-1-2, 20A, electric FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 48X48MM

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Cariaa	Dimensions						L				
Series	□A	D1	D2	E	G	□K	S	1	2	3	12
GF20	48	12	5	34.2	5	36	45-55	46	59.5	73	194.5

## Wiring diagrams



## Certifications and complian

Certifications and con		
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