

**ROTARY CAM SWITCH GF SERIES, DAHLANDER MOTOR 2-SPEED REVERSING SWITCH,
20A, FOR FRONT MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0 AND
PROTECTION COVERS, FRONT PLATE 48X48MM**

Product designation	Rotary cam switches		
Product type designation	GF20		
General characteristics			
Switching diagram	20 - Dahlander motor 2-speed reversing switch		
N° of elements	6		
Mounting form	U25 - Front mounting with red/yellow handle padlockable in 0 and protection covers		
Contact characteristics			
Rated insulation voltage U_i	IEC/EN	V	480
	UL/CSA	V	240
Rated impulse withstand voltage U_{imp}	kV	4	
Conventional free air thermal current I_{th}	IEC/EN	A	20
	UL/CSA	A	15
Rated operational voltage		V	480
Rated operational impulse voltage	kV	4	
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	20
	15kA	A	20
	25kA	A	20
Rated short time current I_{cw}	1s	kA	250
Conductivity	10/5 mA/V		
Operational current I_e IEC/EN			
AC1/AC21A			
	A	20	
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	7.5
Single-phase AC23A	110V	kW	0.75
	220/230V	kW	2
	380/440V	kW	2.5
Rated operational current in DC			

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DC21A

48V	A	20
60V	A	20
110V	A	4
220V	A	0.7
440V	A	0.2

DC13

24V	A	6
48V	A	6
60V	A	3
110V	A	1
220V	A	0.4
440V	A	0.15

Power dissipation	W	0.8
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Mechanical features

Terminals screw	M3
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Tightening torque for terminals max	Nm	0.5
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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	min	mm ²	0.5
	Max	mm ²	2.5

Conductor size (IEC) - Rigid cable	min	mm ²	0.5
	Max	mm ²	2.5

Mechanical life	cycles	1x10 ⁶
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UL technical data

Motor power for direct-on-line control	240V	HP	3
for three-phase motor			

for single-phase motor	240V	HP	1
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Ambient conditions

Temperature	Operating temperature	min	°C	-25
		max	°C	+55

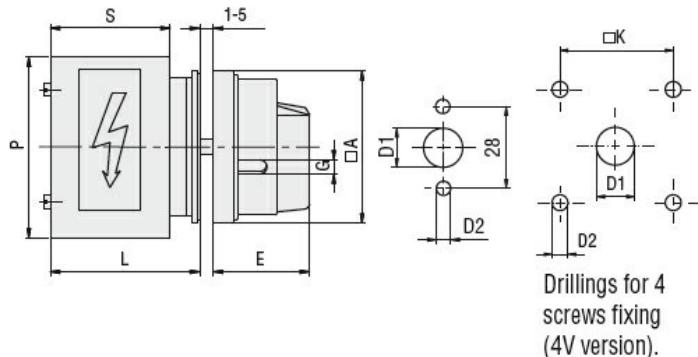
Storage temperature	min	°C	-40
	max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
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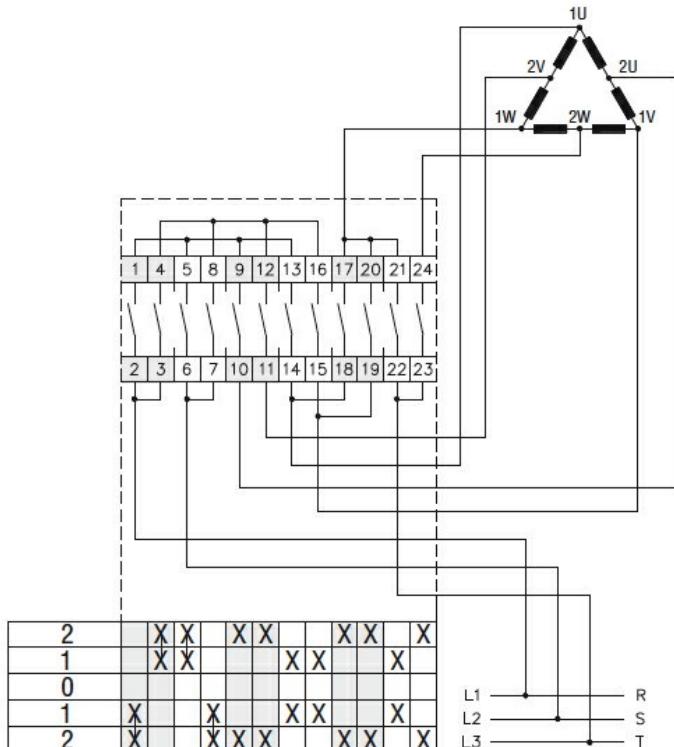
Terminals IP degree	IP20
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Dimensions



Series	Dimensions							L			
	A	D1	D2	E	G	K	1	2	3...12		
GF20	48	12	5	34.2	5	36	44	57.5	71	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