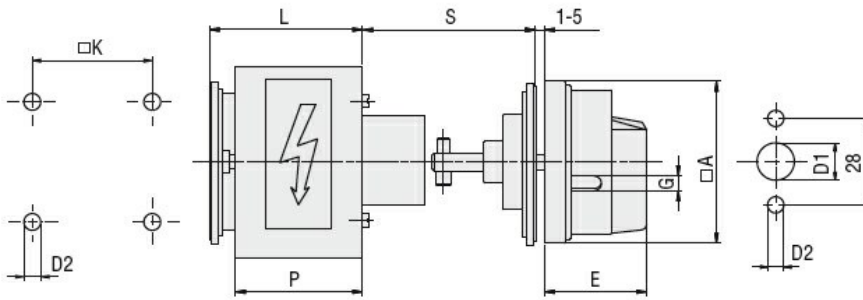


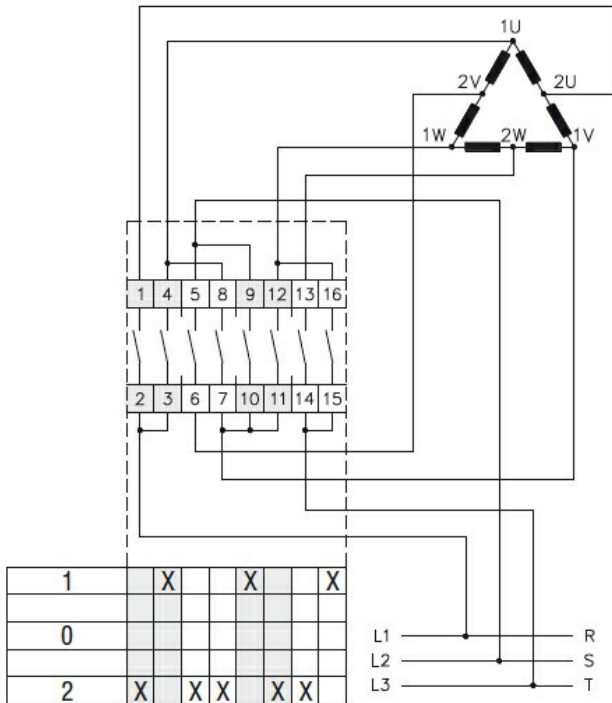
Product designation				Rotary cam switches
Product type designation				GF20
General characteristics				
Switching diagram				13 - Dahlander motor control switch 1-0-2
N° of elements				4
Mounting form				O88 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers
Contact characteristics				
Rated insulation voltage 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	A	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			
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
Mechanical features			
Terminals screw			M3
Tightening torque for terminals 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			
	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
UL technical data			
Motor power for direct-on-line control			
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			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP40
Terminals IP degree			IP20
Dimensions			



Series	Dimensions							L			
	□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 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