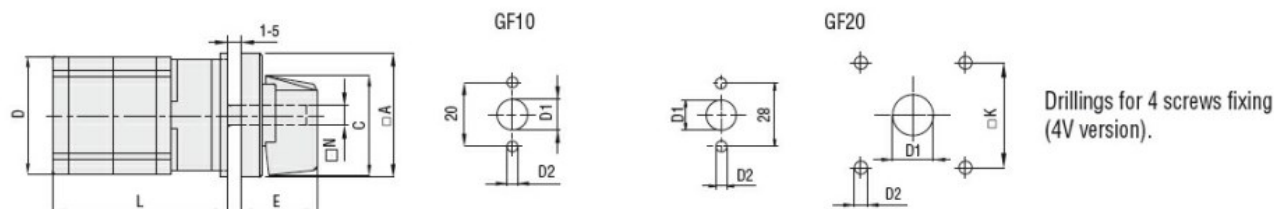


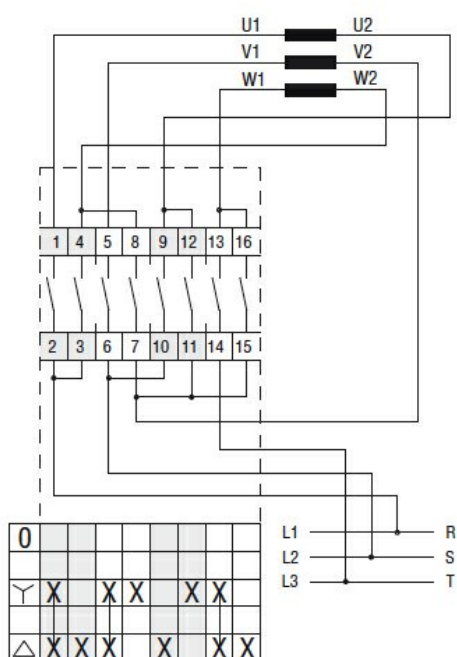
Product designation				Rotary cam switches
Product type designation				GF10
General characteristics				
Switching diagram				12 - Star-delta motor starter switch
N° of elements				4
Mounting form				U - Front mounting with black handle
Contact characteristics				
Rated insulation voltage Ui				
	IEC/EN	V	480	
	UL/CSA	V	240	
Rated impulse withstand voltage Uimp				kV 4
Conventional free air thermal current Ith				
	IEC/EN	A	10	
	UL/CSA	A	10	
Rated operational voltage				V 480
Rated operational impulse voltage				kV 4
Maximum fuse size for short-circuit protection In (gG)				
	10kA	A	16	
Rated short time current Icw				
	1s	kA	250	
Conductivity				10/5 mA/V
Operational current Ie IEC/EN				
AC1/AC21A				A 10
AC15				
	110V	A	5	
	220/230V	A	3	
	380/400V	A	2	
Rated operational power in AC				
Three-phase AC-3				
	220/230V	kW	1.5	
	380/440V	kW	2.2	
Single-phase AC-3				
	110V	kW	0.3	
	220/230V	kW	0.55	
	380/440V	kW	0.75	
Three-phase AC23A				
	220/230V	kW	1.8	
	380/440V	kW	3	
Single-phase AC23A				
	110V	kW	0.7	
	220/230V	kW	0.75	
	380/440V	kW	1.1	
Rated operational current in DC				
DC21A				
	48V	A	10	
	60V	A	7	
	110V	A	2	

		220V	A	0.7
		440V	A	0.2
DC13				
		24V	A	3
		48V	A	3
		60V	A	2
		110V	A	1
		220V	A	0.3
		440V	A	0.1
Power dissipation			W	0.4
Mechanical features				
Terminals screw				2.5M
Tightening torque for terminals max			Nm	0.4
Conductor size				
	AWG - Rigid cable			
		min	AWG	20
		Max	AWG	14
AWG - Flexible cable				
		min	AWG	20
		Max	AWG	14
Conductor size (IEC) - Flexible cable				
		min	mm ²	0.5
		Max	mm ²	1.5
Conductor size (IEC) - Rigid cable				
		min	mm ²	0.5
		Max	mm ²	1.5
Mechanical life			cycles	1x10 ⁶
UL technical data				
Motor power for direct-on-line control				
	for three-phase motor			
		240V	HP	2
	for single-phase motor			
		240V	HP	0.75
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 Number of elements											
	□A	C	D	ØD1	ØD2	E	□K	N	1	2	3	4	5	6	7	8	9	10	11	12
GF10	30	24	29	9	3.2	18.5	—	Ø5	40	52	64	76	88	100	112	124	—	—	—	—
GF20	48	39.5	36	12	5	26.5	36	□6	44	57.5	71	84.5	98	111.5	125	138.5	152	165.5	179	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