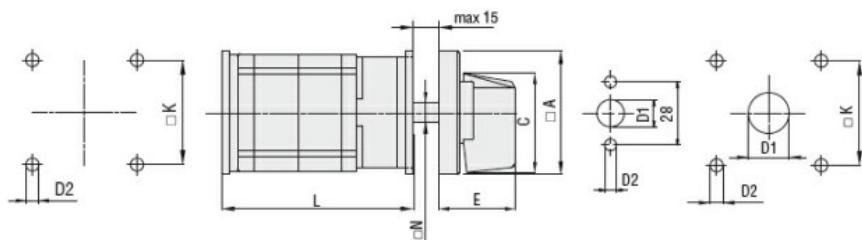


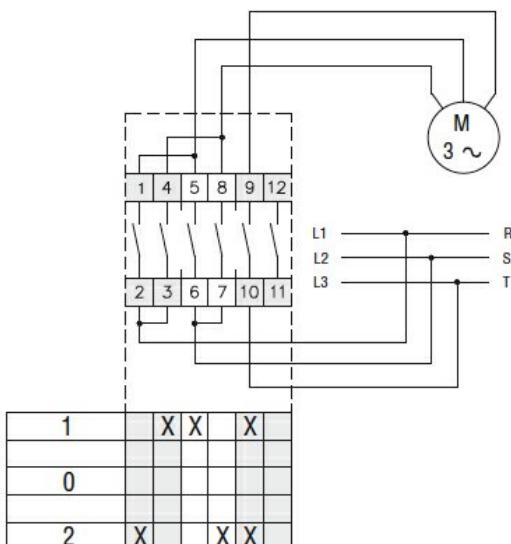
Product designation	Rotary cam switches
Product type designation	GF20
General characteristics	
Switching diagram	11 - 3-phase motor reversing switch
N° of elements	3
Mounting form	O - Rear mounting with black handle
Contact characteristics	
Rated insulation voltage Ui	IEC/EN V 480 UL/CSA V 240
Rated impulse withstand voltage Uimp	kV 4
Conventional free air thermal current Ith	IEC/EN A 20 UL/CSA A 15
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection In (gG)	10kA A 20 15kA A 20 25kA A 20
Rated short time current Icw	1s kA 250
Conductivity	10/5 mA/V
Operational current Ie IEC/EN	AC1/AC21A A 20
	AC15 A 10 110V A 8 220/230V A 6 380/400V
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 Number of elements											
	A	C	ØD1	ØD2	E	K	N	1	2	3	4	5	6	7	8	9	10	11	12
GF20	48	39.5	12	5	26.5	36	6	46	59.5	73	86.5	100	113.5	127	140.5	154	167.5	181	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