

Product designation				Rotary cam switches
Product type designation				GF20
<b>General characteristics</b>				
Switching diagram				53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
N° of elements				3
Mounting form				U25 - Front mounting with red/yellow handle padlockable in 0 and protection covers
<b>Contact characteristics</b>				
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
				10/5 mA/V
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
<b>Rated operational current in DC</b>			
<b>DC21A</b>			
	48V	A	20
	60V	A	20
	110V	A	4
	220V	A	0.7
	440V	A	0.2
<b>DC13</b>			
	24V	A	6
	48V	A	6
	60V	A	3
	110V	A	1
	220V	A	0.4
	440V	A	0.15
<b>Power dissipation</b>		W	0.8
<b>Mechanical features</b>			
<b>Terminals screw</b>			M3
<b>Tightening torque for terminals max</b>		Nm	0.5
<b>Conductor size</b>			
<b>AWG - Rigid cable</b>			
	min	AWG	20
	Max	AWG	12
<b>AWG - Flexible cable</b>			
	min	AWG	20
	Max	AWG	12
<b>Conductor size (IEC) - Flexible cable</b>			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
<b>Conductor size (IEC) - Rigid cable</b>			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
<b>Mechanical life</b>		cycles	1x10 <sup>6</sup>
<b>UL technical data</b>			
<b>Motor power for direct-on-line control</b>			
<b>for three-phase motor</b>			
	240V	HP	3
<b>for single-phase motor</b>			
	240V	HP	1
<b>Ambient conditions</b>			
<b>Temperature</b>			
<b>Operating temperature</b>			
	min	°C	-25
	max	°C	+55
<b>Storage temperature</b>			
	min	°C	-40
	max	°C	+70
<b>Resistance &amp; Protection</b>			
<b>Frontal IP degree</b>			IP40
<b>Terminals IP degree</b>			IP20
<b>ETIM classification</b>			

ETIM 8.0

EC001029 -  
Selector switch,  
complete