

Product designation				Enclosed rotary cam switch
Product type designation				7GN12
<b>General characteristics</b>				
Switching diagram				53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
N° of elements				3
Mounting form				P25 - Plastic enclosure with red/yellow handle
<b>Contact characteristics</b>				
Rated insulation voltage $U_i$	IEC/EN	V	690	
	UL/CSA	V	600	
Rated impulse withstand voltage $U_{imp}$			kV	6
Conventional free air thermal current $I_{th}$	IEC/EN	A	16	
	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	16	
	15kA	A	10	
	25kA	A	10	
Rated short time current $I_{cw}$			1s	A
				200
Conductivity				10/5 mA/V
Operational current $I_e$ IEC/EN	AC1/AC21A		A	16
	AC15			
	110V	A	10	
	220/230V	A	8	
	380/400V	A	4	
	660/690V	A	1.5	
Rated operational power in AC	Three-phase AC-3			
	220/230V	kW	2.5	
	380/440V	kW	4	
	500/690V	kW	5.5	
	Single-phase AC-3			
	110V	kW	0.8	
	220/230V	kW	1.5	
	380/440V	kW	2.2	
	Three-phase AC23A			
	220/230V	kW	3	
	380/440V	kW	5.5	
	500/690V	kW	7.5	
	Single-phase AC23A			
	110V	kW	0.8	

	220/230V	kW	1.7
	380/440V	kW	3
<b>Rated operational current in DC</b>			
DC21A			
	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
DC13			
	24V	A	12
	48V	A	10
	60V	A	8
	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>			
AWG - Rigid cable			
	min	AWG	20
	Max	AWG	12
AWG - Flexible cable			
	min	AWG	20
	Max	AWG	14
Conductor size (IEC) - Flexible cable			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
Conductor size (IEC) - Rigid cable			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
<b>Mechanical life</b>		cycles	3x10 <sup>6</sup>
<b>UL technical data</b>			
<b>Motor power for direct-on-line control</b>			
for three-phase motor			
	120V	HP	1.5
	240V	HP	3
	480V	HP	50
	600V	HP	40
for single-phase motor			
	120V	HP	0.5
	240V	HP	1
<b>Ambient conditions</b>			
<b>Temperature</b>			
Operating temperature			
	min	°C	-25

Storage temperature	max	°C	+55
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min	°C	-40
max	°C	+70

**Resistance & Protection**

Frontal IP degree	IP40
Terminals IP degree	IP00

**ETIM classification**

ETIM 8.0	EC001029 - Selector switch, complete
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