

Product designation	Enclosed rotary cam switch		
Product type designation	7GN20		
General characteristics			
Switching diagram	86 - Multi-step 1-2-3 2 poles		
N° of elements	3		
Mounting form	P - Plastic enclosure with black handle		
Contact characteristics			
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	20
	UL/CSA	A	20
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	16
	25kA	A	16
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
	660/690V	A	1.5
Rated operational power in AC			
Three-phase AC-3	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	5.5
Single-phase AC-3	110V	kW	0.8
	220/230V	kW	2.2
	380/440V	kW	3
Three-phase AC23A	220/230V	kW	5
	380/440V	kW	7.5
	500/690V	kW	7.5
Single-phase AC23A	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7
Rated operational current in DC			

DC21A				
	48V	A	20	
	60V	A	20	
	110V	A	4	
	220V	A	0.6	
	440V	A	0.25	
DC23A (poles in series)				
	24V	A	20 (1)	
	48V	A	20 (2)	
	60V	A	20 (3)	
	110V	A	10 (3)	
	220V	A	8 (4)	
DC13				
	24V	A	20	
	48V	A	16	
	60V	A	12	
	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	14	
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	5x10 ⁶	
UL technical data				
Motor power for direct-on-line control				
for three-phase motor				
	120V	HP	1.5	
	240V	HP	3	
	480V	HP	7.5	
	600V	HP	10	
for single-phase motor				
	120V	HP	0.75	
	240V	HP	2	
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 IP00

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete