

**ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 1-PHASE MOTOR REVERSING SWITCH
WITH SPRING RETURN 20A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW
HANDLE**

Product designation	Enclosed rotary cam switch		
Product type designation	7GN20		
General characteristics			
Switching diagram	25 - 1-phase motor reversing switch with spring return		
N° of elements	2		
Mounting form	P25 - Plastic enclosure with red/yellow 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	KA	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

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	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

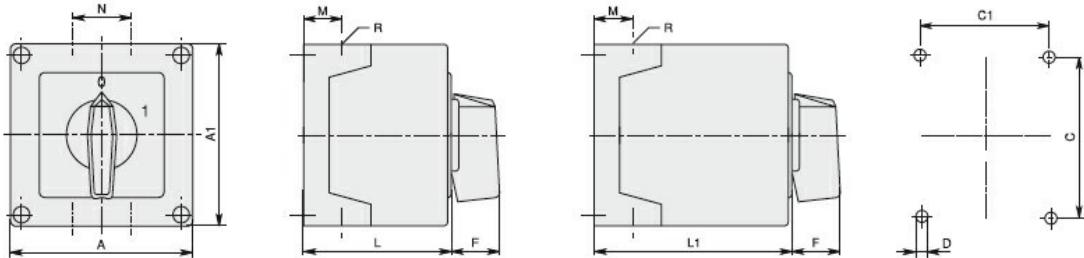
min °C -40
max °C +70

Resistance & Protection

Frontal IP degree IP65

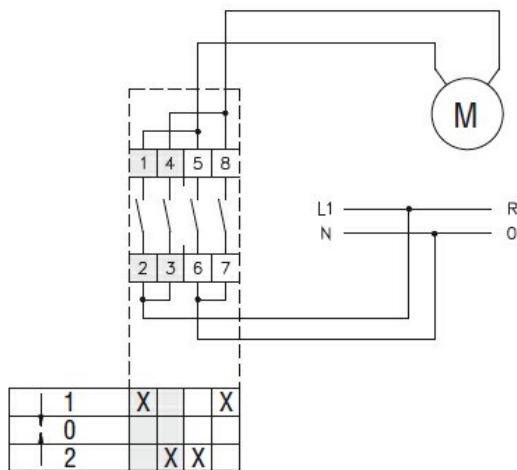
Terminals IP degree IP00

Dimensions



Series	Enclosure size	Number of elements		Dimensions									Cable entry	Protection degree	
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12	75x75	1 - 2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20		1 - 2	3 - 4												
7GN25		1	2 - 3												
7GN12	90x90	1 - 3	4 - 6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20		1 - 3	4 - 6												
7GN25		1 - 2	3 - 4												
7GN32		1 - 2	3 - 4												
7GN40		1	2 - 3												
7GN12		1 - 4	5 - 8												
7GN20	110x110	1 - 4	5 - 8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN25		1 - 3	4 - 5												
7GN32		1 - 3	4 - 5												
7GN40		1 - 2	3 - 5												
7GN63		1 - 2	3 - 4												
7GN32		1 - 3	4 - 5												
7GN40	125x175	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN63		1 - 2	3 - 4												
7GN125		1	2												
7GN32		1 - 5	6 - 8	180	254	120	190	5.5	32	35	76	121	175	4xPG29 2xPG11	IP65
7GN40		1 - 4	5 - 7												
7GN63		1 - 3	4 - 6												
7GN125		1 - 2	3 - 4												

Wiring diagrams



Certifications and compliance

Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

Certificates

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EAC

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete