

Product designation				Rotary cam switches	
Product type designation				7GN20	
General characteristics					
Switching diagram				07 - ON/OFF switch 3 poles	
N° of elements				2	
Mounting form				O98 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers	
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		
				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	
		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	

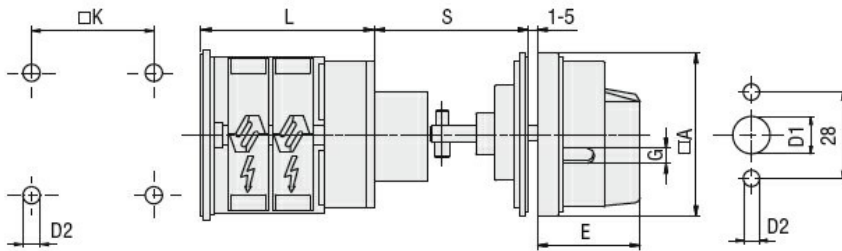
	220/230V	kW	2.5
	380/440V	kW	3.7
Rated operational current in DC			
DC21A			
	48V	A	20
	60V	A	20
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	20 (1)
	48V	A	20 (2)
	60V	A	20 (3)
	110V	A	10 (3)
	220V	A	8 (4)
DC13			
	24V	A	20
	48V	A	16
	60V	A	12
	110V	A	1
	220V	A	0.4
	440V	A	0.15
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

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

Resistance & Protection

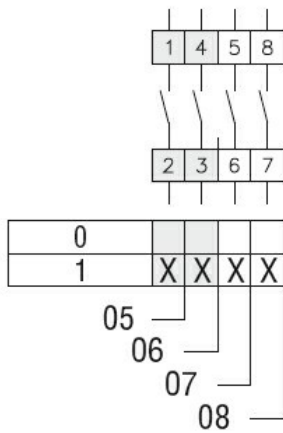
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	Dimensions							L				
	□A	D1	D2	E	G	□K	S	1	2	3...12		
7GN12	65	12	5	34.2	5	36	45-55	41.1	50.8	60.5	147.8	
7GN20	65	12	5	34.2	5	36	45-55	41.1	50.8	60.5	147.8	
7GN25	65	14	5	38	6	48	45-55	51.5	66.6	81.7	217.6	
7GN40	65	14	5	38	6	48	45-55	51.5	66.6	81.7	217.6	
7GN63	65	14	6	38	6	68	45-55	57.3	75.4	93.5	256.4	

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	cCSAus
	EAC
	UL

ETIM classification

ETIM 8.0	EC001105 - Off-load switch
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