

Product designation				Rotary cam switches
Product type designation				7GN20
General characteristics				
Switching diagram				06 - ON/OFF switch 2 poles
N° of elements				1
Mounting form				O88 - 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			
Rated operational power in AC	110V	A	10	
	220/230V	A	8	
	380/400V	A	6	
	660/690V	A	1.5	
	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		

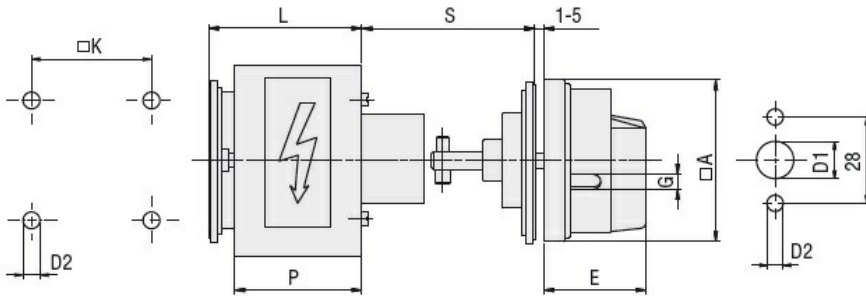
	220/230V	kW	2.5
	380/440V	kW	3.7
<hr/>			
Rated operational current in DC			
DC21A			
	48V	A	20
	60V	A	20
	110V	A	4
	220V	A	0.6
	440V	A	0.25
<hr/>			
DC23A (poles in series)			
	24V	A	20 (1)
	48V	A	20 (2)
	60V	A	20 (3)
	110V	A	10 (3)
	220V	A	8 (4)
<hr/>			
DC13			
	24V	A	20
	48V	A	16
	60V	A	12
	110V	A	1
	220V	A	0.4
	440V	A	0.15
<hr/>			
Power dissipation		W	0.8
Mechanical features			
Terminals screw			M3
Tightening torque for terminals max		Nm	0.5
<hr/>			
Conductor size			
AWG - Rigid cable			
	min	AWG	20
	Max	AWG	12
<hr/>			
AWG - Flexible cable			
	min	AWG	20
	Max	AWG	14
<hr/>			
Conductor size (IEC) - Flexible cable			
	min	mm ²	0.5
	Max	mm ²	2.5
<hr/>			
Conductor size (IEC) - Rigid cable			
	min	mm ²	0.5
	Max	mm ²	2.5
<hr/>			
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
<hr/>			
for single-phase motor			
	120V	HP	0.75
	240V	HP	2
<hr/>			
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-25

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

Resistance & Protection

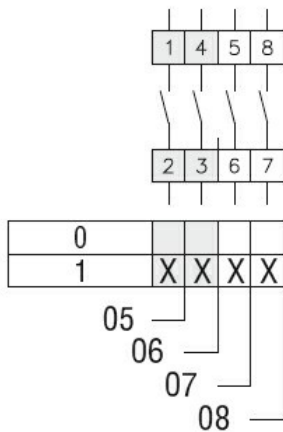
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	Dimensions								
	□A	D1	D2	E	G	□K	S	P	L
7GN12	65	12	5	34.2	5	36	45-55	43	51.3
7GN20	65	12	5	34.2	5	36	45-55	43	51.3
7GN25	65	12	5	34.2	5	36	45-55	51	59.6
7GN32	65	14	5	38	6	48	45-55	55	68.7
7GN40	65	14	5	38	6	48	45-55	55	68.7

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