

Product designation				Rotary cam switches
Product type designation				7GN63
<b>General characteristics</b>				
Switching diagram				11 - 3-phase motor reversing switch
N° of elements				3
Mounting form				P - Plastic enclosure with black 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	63	
	UL/CSA	A	60	
Rated operational voltage		V	480	
Rated operational impulse voltage		kV	4	
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	63	
	15kA	A	63	
	25kA	A	63	
	50kA	A	63	
	63kA	A	63	
Rated short time current $I_{cw}$	1s	kA	1600	
Conductivity				10/5 mA/V
Operational current $I_e$ IEC/EN				
AC1/AC21A				A 63
AC15	110V	A	32	
	220/230V	A	25	
	380/400V	A	15	
	660/690V	A	4	
Rated operational power in AC				
Three-phase AC-3	220/230V	kW	11	
	380/440V	kW	18.5	
	500/690V	kW	18.5	
Single-phase AC-3	110V	kW	3.7	
	220/230V	kW	6.5	
	380/440V	kW	11.5	
Three-phase AC23A	220/230V	kW	12.5	
	380/440V	kW	30	
	500/690V	kW	30	
Single-phase AC23A	110V	kW	3.7	

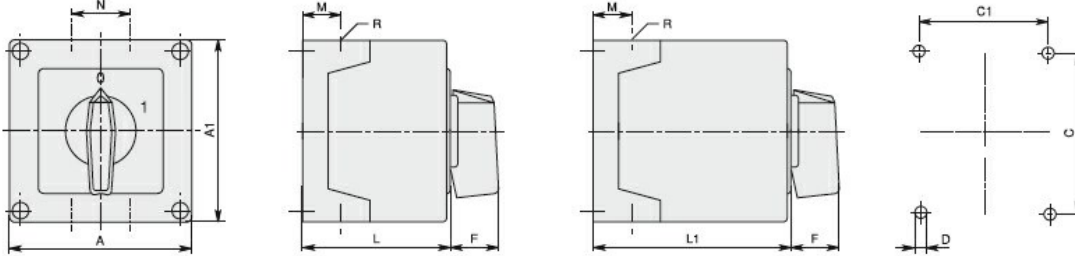
	220/230V	kW	7.5
	380/440V	kW	12.5
<b>Rated operational current in DC</b>			
DC21A			
	48V	A	63
	60V	A	50
	110V	A	8
	220V	A	1
<b>DC23A (poles in series)</b>			
	24V	A	50 (1)
	48V	A	50 (2)
	60V	A	50 (3)
	110V	A	25 (3)
	220V	A	15 (4)
<b>DC13</b>			
	24V	A	63
	48V	A	40
	60V	A	28
	110V	A	3.3
<b>Power dissipation</b>		W	3.4
<b>Mechanical features</b>			
<b>Terminals screw</b>			M5
<b>Tightening torque for terminals max</b>		Nm	2
<b>Conductor size</b>			
AWG - Rigid cable			
	min	AWG	14
	Max	AWG	6
AWG - Flexible cable			
	min	AWG	14
	Max	AWG	8
Conductor size (IEC) - Flexible cable			
	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	10
Conductor size (IEC) - Rigid cable			
	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	16
<b>Mechanical life</b>		cycles	5x10 <sup>6</sup>
<b>UL technical data</b>			
<b>Motor power for direct-on-line control</b>			
for three-phase motor			
	120V	HP	7.5
	240V	HP	15
	480V	HP	25
	600V	HP	25
for single-phase motor			
	120V	HP	3
	240V	HP	10
<b>Ambient conditions</b>			
<b>Temperature</b>			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-40

max °C +70

**Resistance & Protection**

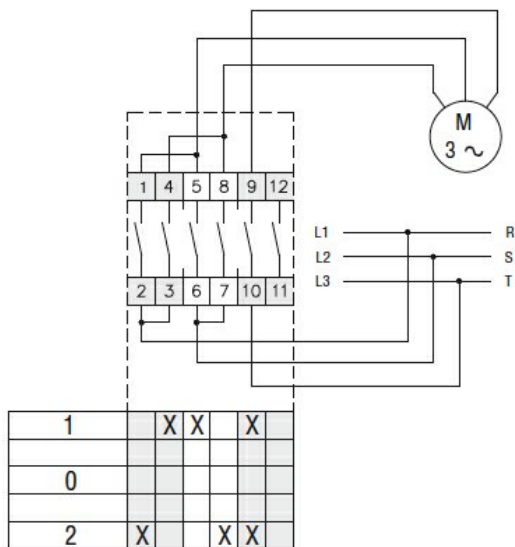
Frontal IP degree	IP65
Terminals IP degree	IP00

**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	110x110	1-4	5-8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN20		1-4	5-8												
7GN25		1-3	4-5												
7GN32		1-3	4-5												
7GN40		1-2	3-5												
7GN63		1-2	3-4												
7GN32	125x175	1-3	4-5	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40		1-2	3-4												
7GN63		1-2	3-4												
7GN125		1	2												
7GN32	180x254	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

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Certificates

EAC

ETIM classification

ETIM 8.0

EC001105 - Off-  
load switch