

Product designation				Enclosed rotary cam switch
Product type designation				7GN125
<b>General characteristics</b>				
Switching diagram				19 - Dahlander motor control switch 0-1-2
N° of elements				4
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	125	
	UL/CSA	A	130	
Rated operational voltage		V	690	
Rated operational impulse voltage		kV	6	
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	125	
	15kA	A	100	
	25kA	A	100	
	50kA	A	100	
	63kA	A	100	
Rated short time current $I_{cw}$	1s	A	2100	
Conductivity				10/5 mA/V
Operational current $I_e$ IEC/EN				
AC1/AC21A				A 125
AC15	110V	A	40	
	220/230V	A	28	
	380/400V	A	15	
	660/690V	A	5	
Rated operational power in AC				
Three-phase AC-3	220/230V	kW	18.5	
	380/440V	kW	37	
	500/690V	kW	33	
Single-phase AC-3	110V	kW	5	
	220/230V	kW	11	
	380/440V	kW	15	
Three-phase AC23A	220/230V	kW	30	
	380/440V	kW	45	
	500/690V	kW	37	
Single-phase AC23A	110V	kW	5	

	220/230V	kW	11
	380/440V	kW	15
<b>Rated operational current in DC</b>			
DC21A			
	48V	A	125
	60V	A	80
	110V	A	10
	220V	A	1.2
<b>DC23A (poles in series)</b>			
	24V	A	125 (1)
	48V	A	125 (2)
	60V	A	125 (3)
	110V	A	50 (3)
	220V	A	20 (4)
<b>DC13</b>			
	24V	A	125
	48V	A	100
	60V	A	50
	110V	A	4
<b>Power dissipation</b>		W	6.3
<b>Mechanical features</b>			
<b>Terminals screw</b>			M2X5
<b>Tightening torque for terminals max</b>			Nm 2
<b>Conductor size</b>			
AWG - Rigid cable			
	min	AWG	14
	Max	AWG	1/0
AWG - Flexible cable			
	min	AWG	14
	Max	AWG	1/0
Conductor size (IEC) - Flexible cable			
	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	50
Conductor size (IEC) - Rigid cable			
	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	50
<b>Mechanical life</b>			cycles 1X10 <sup>6</sup>
<b>UL technical data</b>			
<b>Motor power for direct-on-line control</b>			
for three-phase motor			
	120V	HP	15
	240V	HP	25
	480V	HP	50
	600V	HP	40
for single-phase motor			
	120V	HP	5
	240V	HP	15
<b>Ambient conditions</b>			
<b>Temperature</b>			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-40

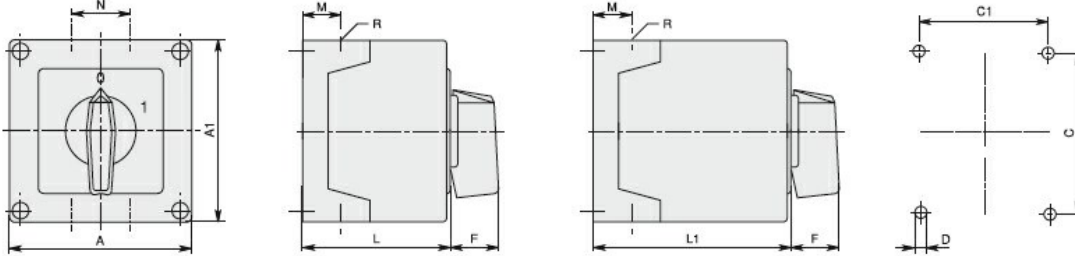
max °C +70

**Resistance & Protection**

Frontal IP degree IP65

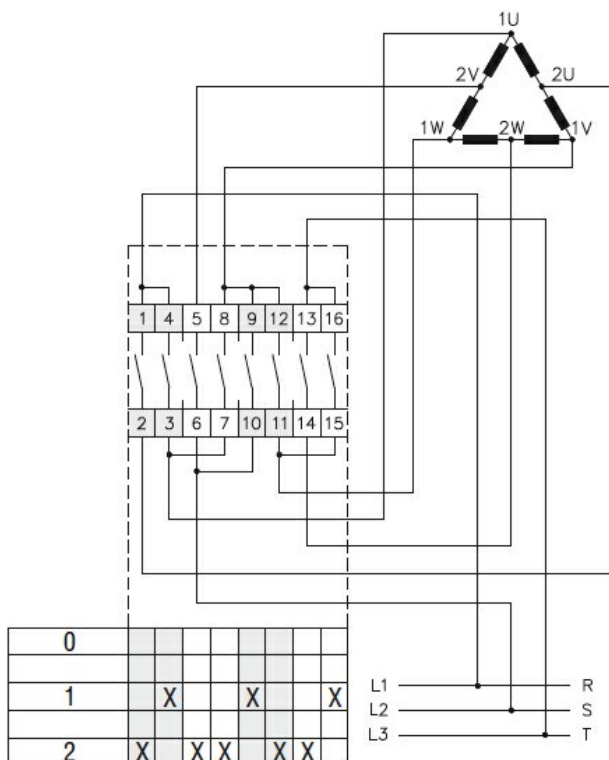
Terminals IP degree IP00

**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

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete