

Product designation	Rotary cam switches	
Product type designation	7GN125	
<b>General characteristics</b>		
Switching diagram	13 - Dahlander motor control switch 1-0-2	
N° of elements	4	
Mounting form	O - Rear mounting with black handle	
<b>Contact characteristics</b>		
Rated insulation voltage Ui	IEC/EN V 690 UL/CSA V 600	
Rated impulse withstand voltage Uimp	kV 6	
Conventional free air thermal current Ith	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 In (gG)	10kA A 125 15kA A 100 25kA A 100 50kA A 100 63kA A 100	
Rated short time current Icw	1s kA 2100	
Conductivity	10/5 mA/V	
Operational current le 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
Rated operational current in DC			
DC21A			
	48V	A	125
	60V	A	80
	110V	A	10
	220V	A	1.2
DC23A (poles in series)			
	24V	A	125 (1)
	48V	A	125 (2)
	60V	A	125 (3)
	110V	A	50 (3)
	220V	A	20 (4)
DC13			
	24V	A	125
	48V	A	100
	60V	A	50
	110V	A	4
Power dissipation		W	6.3
Mechanical features			
Terminals screw		M2X5	
Tightening torque for terminals max		Nm	2
Conductor size			
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
Mechanical life		cycles	1X10 <sup>6</sup>
UL technical data			
Motor power for direct-on-line control			
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
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-40

**Resistance & Protection**

Frontal IP degree

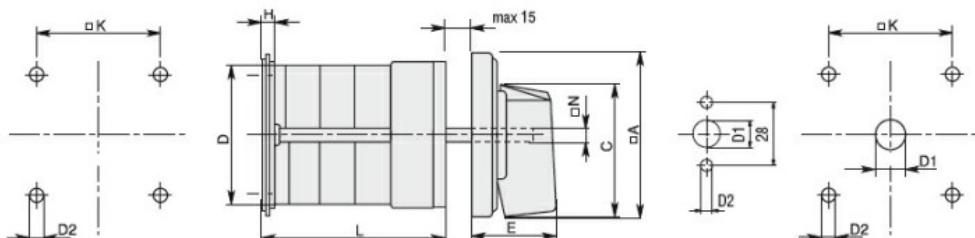
max °C +70

IP40

Terminals IP degree

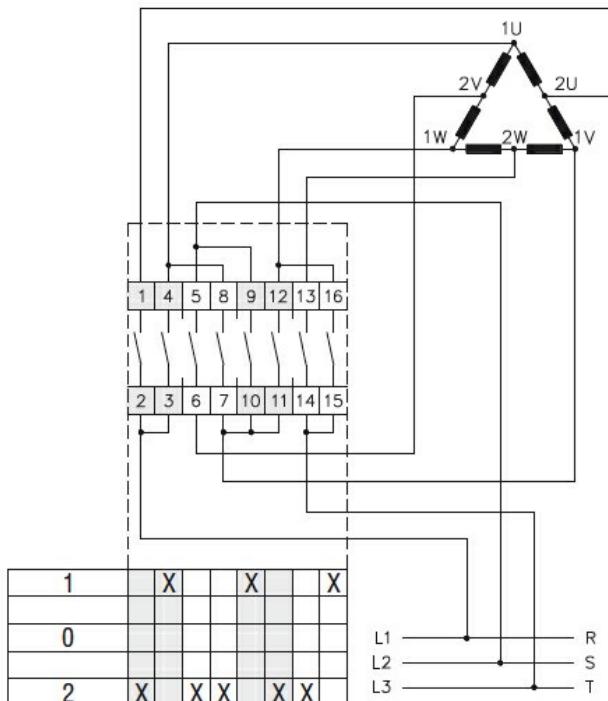
IP00

**Dimensions**



Series	Dimensions								L Number of elements											
	□A	C	ØD	ØD2	E	H	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	220.3	249.4	278.5	307.6	336.7	365.8	394.9

**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

EAC  
UL

ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete