

Product designation			Rotary cam switches		
Product type designation			7GN125		
General characteristics					
Switching diagram			13 - Dahlander motor control switch 1-0-2		
N° of elements			4		
Mounting form			O - Rear mounting with black handle		
Contact characteristics					
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 Ie 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 ²	2.5
		Max	mm ²	50
	Conductor size (IEC) - Rigid cable			
		min	mm ²	2.5
		Max	mm ²	50
Mechanical life			cycles	1X10 ⁶
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

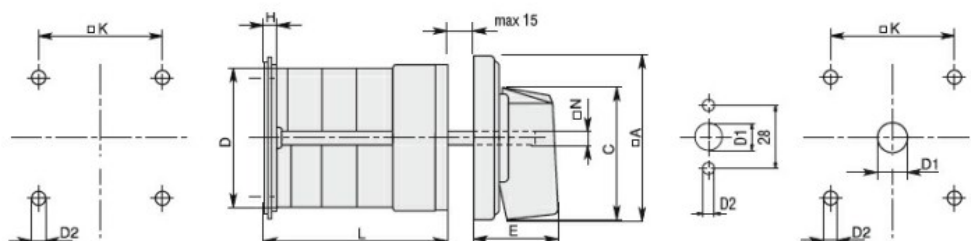
max °C +70

Resistance & Protection

Frontal IP degree IP40

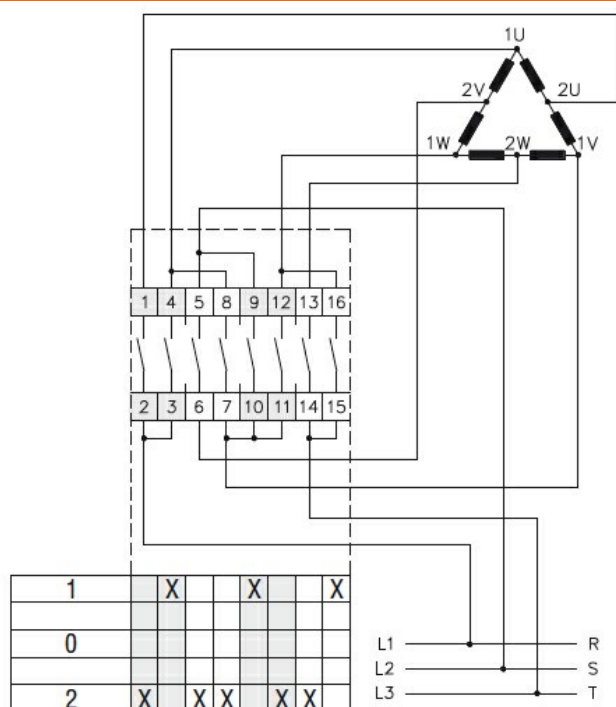
Terminals IP degree IP00

Dimensions



Series	Dimensions								L Number of elements											
	ØA	C	ØD	ØD2	E	H	ØK	ØN	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