

Product designation			Enclosed rotary cam switch		
Product type designation			7GN125		
General characteristics					
Switching diagram			19 - Dahlander motor control switch 0-1-2		
N° of elements			4		
Mounting form			P25 - Plastic enclosure with red/yellow 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

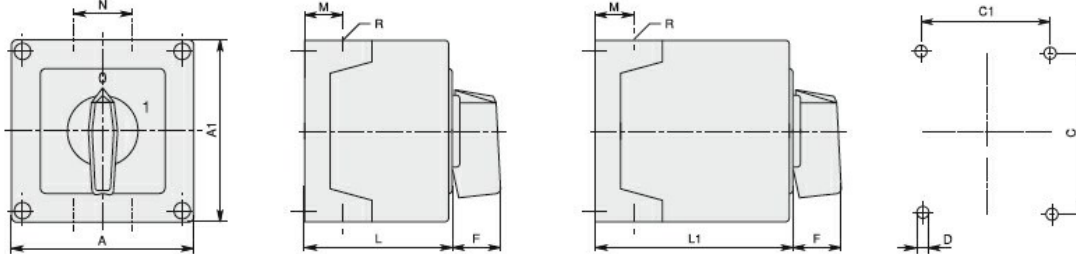
max °C +70

Resistance & Protection

Frontal IP degree IP65

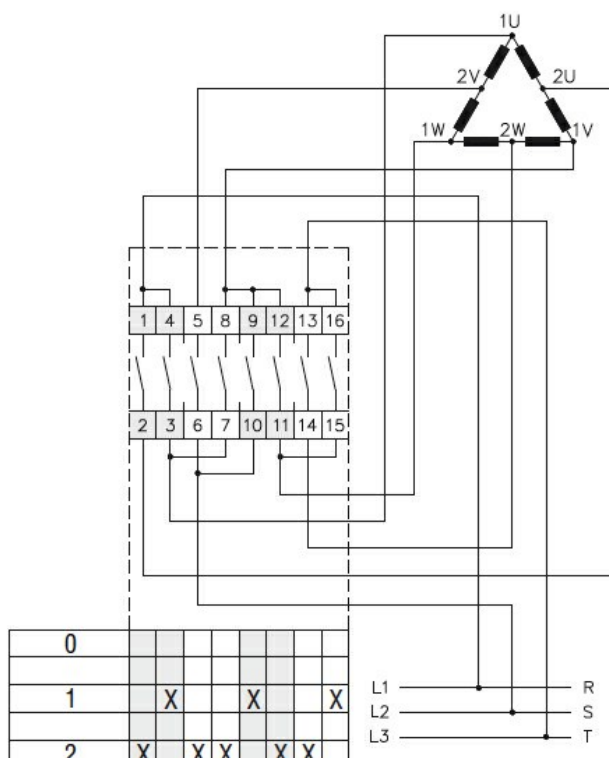
Terminals IP degree IP00

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	110x110	1	2 - 3	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN12		1 - 4	5 - 8												
7GN20		1 - 4	5 - 8												
7GN25		1 - 3	4 - 5												
7GN32		1 - 3	4 - 5												
7GN40		1 - 2	3 - 5												
7GN63	125x175	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN32		1 - 3	4 - 5												
7GN40		1 - 2	3 - 4												
7GN63		1 - 2	3 - 4												
7GN125	180x254	1	2	180	254	120	190	5.5	32	35	76	121	175	4xPG29 2xPG11	IP65
7GN32		1 - 5	6 - 8												
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