

Product designation			Enclosed rotary cam switch		
Product type designation			7GN25		
General characteristics					
Switching diagram			13 - Dahlander motor control switch 1-0-2		
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	25
			UL/CSA	A	30
Rated operational voltage			V	480	
Rated operational impulse voltage			kV	4	
Maximum fuse size for short-circuit protection In (gG)			10kA	A	25
			15kA	A	25
			25kA	A	25
Rated short time current Icw			1s	kA	400
Conductivity			10/5 mA/V		
Operational current Ie IEC/EN					
AC1/AC21A			A	25	
AC15			110V	A	16
			220/230V	A	12
			380/400V	A	8
			660/690V	A	2
Rated operational power in AC					
Three-phase AC-3			220/230V	kW	5.5
			380/440V	kW	7.5
			500/690V	kW	7.5
Single-phase AC-3			110V	kW	1.5
			220/230V	kW	3
			380/440V	kW	5.5
Three-phase AC23A			220/230V	kW	6.5
			380/440V	kW	11
			500/690V	kW	11
Single-phase AC23A			110V	kW	1.5
			220/230V	kW	3.7
			380/440V	kW	5.5

Rated operational current in DC

DC21A

48V	A	25
60V	A	25
110V	A	4
220V	A	0.7

DC23A (poles in series)

24V	A	25 (1)
48V	A	25 (2)
60V	A	25 (3)
110V	A	12 (3)
220V	A	10 (4)

DC13

24V	A	25
48V	A	20
60V	A	16
110V	A	1.5
220V	A	0.4

Power dissipation W 1.1

Mechanical features

Terminals screw M3.5

Tightening torque for terminals max Nm 0.8

Conductor size

AWG - Rigid cable

min	AWG	20
Max	AWG	10

AWG - Flexible cable

min	AWG	20
Max	AWG	12

Conductor size (IEC) - Flexible cable

min	mm ²	0.5
Max	mm ²	4

Conductor size (IEC) - Rigid cable

min	mm ²	0.5
Max	mm ²	4

Mechanical life cycles 5x10⁶

UL technical data

Motor power for direct-on-line control

for three-phase motor

120V	HP	3
240V	HP	5
480V	HP	10
600V	HP	15

for single-phase motor

120V	HP	1.5
240V	HP	3

Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

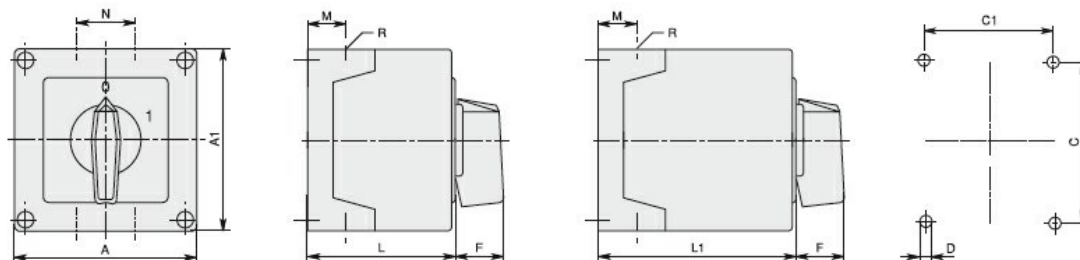
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

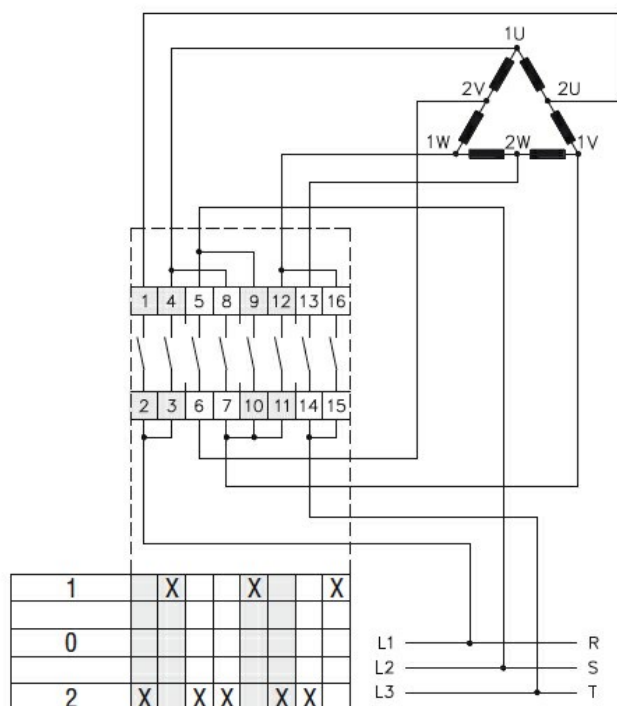
Frontal IP degree	IP65
Terminals IP degree	IP00

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