

Product designation	Rotary cam switches
Product type designation	7GN12
General characteristics	
Switching diagram	13 - Dahlander motor control switch 1-0-2
N° of elements	4
Mounting form	U65 - Front mounting with red/yellow handle padlockable in 0 and protection covers
Contact characteristics	
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 16 UL/CSA A 15
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection I_n (gG)	10kA A 16 15kA A 10 25kA A 10
Rated short time current I_{cw}	1s kA 200
Conductivity	10/5 mA/V
Operational current I_e IEC/EN	
AC1/AC21A	A 16
AC15	110V A 10 220/230V A 8 380/400V A 4 660/690V A 1.5
Rated operational power in AC	
Three-phase AC-3	220/230V kW 2.5 380/440V kW 4 500/690V kW 5.5
Single-phase AC-3	110V kW 0.8 220/230V kW 1.5 380/440V kW 2.2
Three-phase AC23A	220/230V kW 3 380/440V kW 5.5 500/690V kW 7.5
Single-phase AC23A	110V kW 0.8

	220/230V	kW	1.7
	380/440V	kW	3
Rated operational current in DC			
DC21A			
	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
DC13			
	24V	A	12
	48V	A	10
	60V	A	8
	110V	A	1
	220V	A	0.4
	440V	A	0.15
Power dissipation		W	0.8
Mechanical features			
Terminals screw		M3	
Tightening torque for terminals max		Nm	0.5
Conductor size			
AWG - Rigid cable			
	min	AWG	20
	Max	AWG	12
AWG - Flexible cable			
	min	AWG	20
	Max	AWG	14
Conductor size (IEC) - Flexible cable			
	min	mm ²	0.5
	Max	mm ²	2.5
Conductor size (IEC) - Rigid cable			
	min	mm ²	0.5
	Max	mm ²	2.5
Mechanical life		cycles	3x10 ⁶
UL technical data			
Motor power for direct-on-line control			
for three-phase motor			
	120V	HP	1.5
	240V	HP	3
for single-phase motor			
	120V	HP	0.5
	240V	HP	1
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			

min °C -40
max °C +70

Resistance & Protection

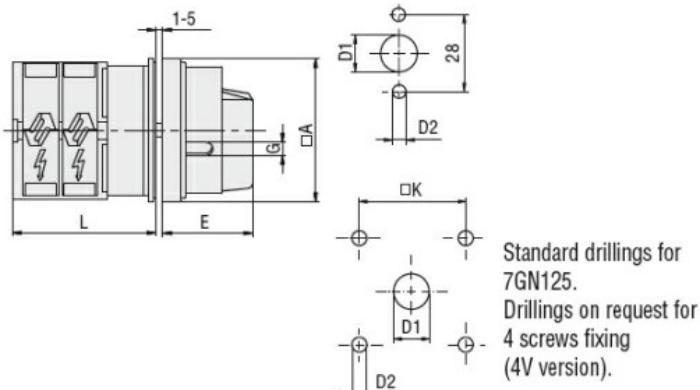
Frontal IP degree

IP40

Terminals IP degree

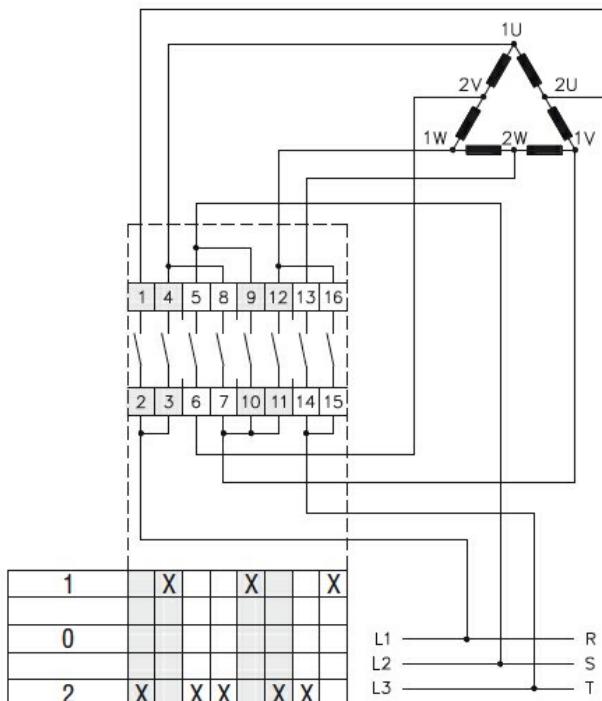
IP00

Dimensions



Series	Dimensions						L			
	A	D1	D2	E	G	K	1	2	3....12	
7GN12	65	12	5	34.2	5	36	36.1	45.8	55.5	142.8
7GN20	65	12	5	34.2	5	36	36.1	45.8	55.5	142.8
7GN25	65	12	5	34.2	5	36	40.5	54.1	67.7	190.1
7GN32	65	14	5	38	6	48	46.5	61.6	76.7	212.6
7GN40	65	14	5	38	6	48	46.5	61.6	76.7	212.6
7GN63	65	14	5	38	6	48	50.3	68.4	86.5	249.4
7GN125	90	16	6	49	7	68	67.3	96.4	125.5	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

cCSAus

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete