

Product designation			Rotary cam switches		
Product type designation			7GN25		
General characteristics					
Switching diagram			20 - Dahlander motor 2-speed reversing switch		
N° of elements			6		
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	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

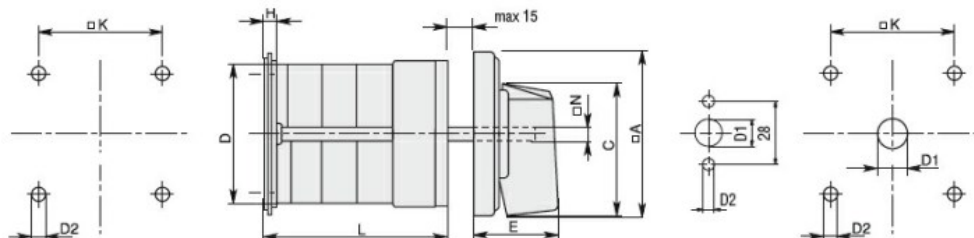
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

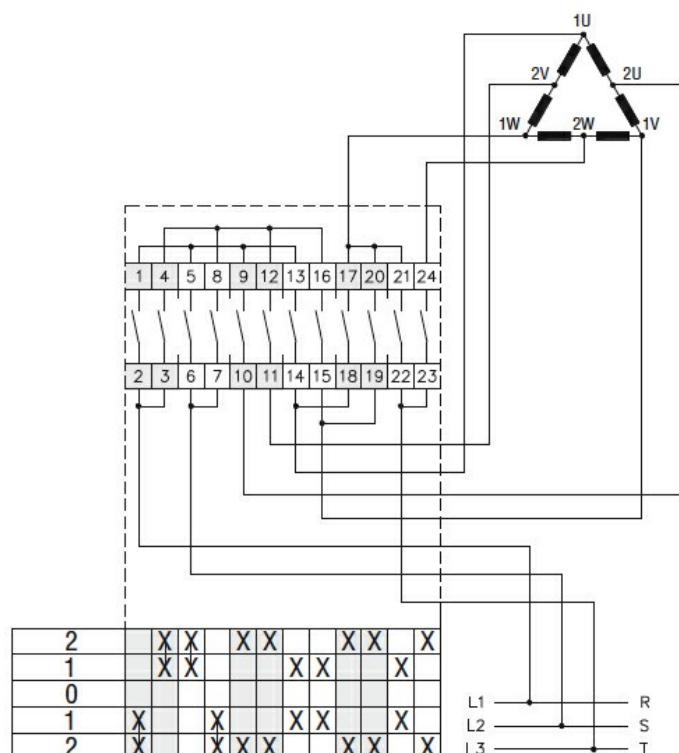
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	Dimensions								L Number of elements											
	□A	C	∅D	∅D2	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

cCSAus
EAC
UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete