

Product designation				Rotary cam switches
Product type designation				7GN25
<b>General characteristics</b>				
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
<b>Contact characteristics</b>				
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	25	
	UL/CSA	A	30	
Rated operational voltage			V	480
Rated operational impulse voltage			kV	4
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	25	
	15kA	A	25	
	25kA	A	25	
Rated short time current $I_{cw}$			1s	kA
				400
Conductivity				10/5 mA/V
Operational current $I_e$ 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		

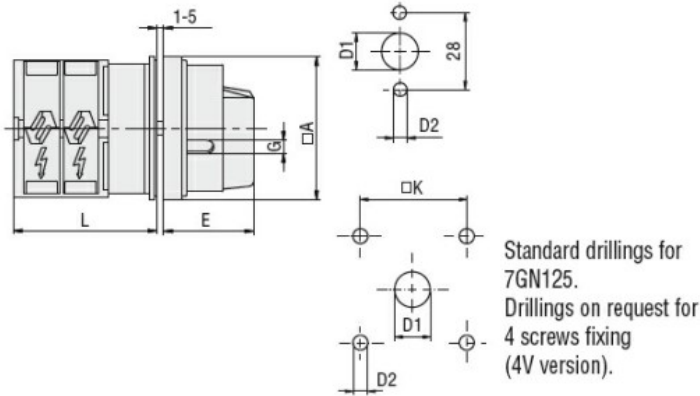
	220/230V	kW	3.7
	380/440V	kW	5.5
<b>Rated operational current in DC</b>			
DC21A			
	48V	A	25
	60V	A	25
	110V	A	4
	220V	A	0.7
<b>DC23A (poles in series)</b>			
	24V	A	25 (1)
	48V	A	25 (2)
	60V	A	25 (3)
	110V	A	12 (3)
	220V	A	10 (4)
<b>DC13</b>			
	24V	A	25
	48V	A	20
	60V	A	16
	110V	A	1.5
	220V	A	0.4
<b>Power dissipation</b>		W	1.1
<b>Mechanical features</b>			
<b>Terminals screw</b>			M3.5
<b>Tightening torque for terminals max</b>		Nm	0.8
<b>Conductor size</b>			
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 <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	4
Conductor size (IEC) - Rigid cable			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	4
<b>Mechanical life</b>		cycles	5x10 <sup>6</sup>
<b>UL technical data</b>			
<b>Motor power for direct-on-line control</b>			
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
<b>Ambient conditions</b>			
<b>Temperature</b>			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			

min	°C	-40
max	°C	+70

**Resistance & Protection**

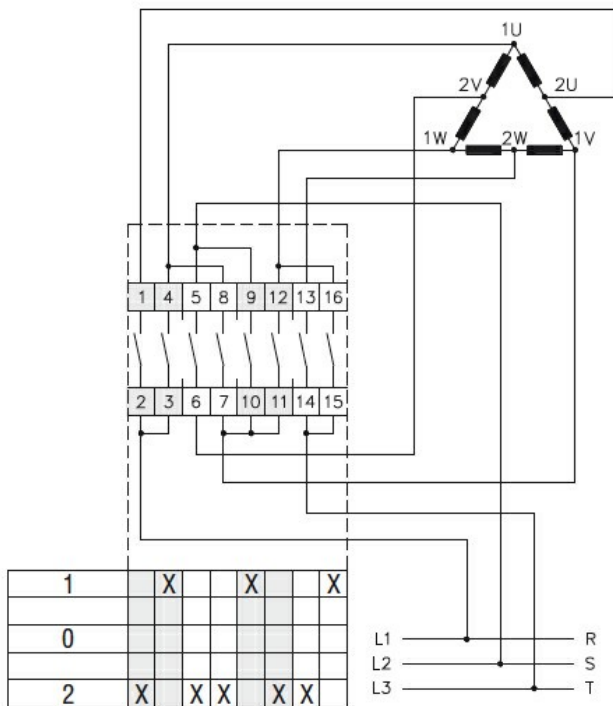
Frontal IP degree	IP40
Terminals IP degree	IP00

**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