

### General characteristics

Switching diagram	13 - Dahlander motor control switch 1-0-2
N° of elements	4
Mounting form	P - Plastic enclosure with black handle

### 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	63
	UL/CSA	A	60
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	63
	15kA	A	63
	25kA	A	63
	50kA	A	63
	63kA	A	63
Rated short time current $I_{cw}$	1s	kA	1600
	Conductivity		10/5 mA/V
Operational current $I_e$ IEC/EN	AC1/AC21A		A 63
	AC15		
Rated operational power in AC	110V	A	32
	220/230V	A	25
	380/400V	A	15
	660/690V	A	4
	Three-phase AC-3		
220/230V	kW	11	
380/440V	kW	18.5	
500/690V	kW	18.5	
Single-phase AC-3			
110V	kW	3.7	
220/230V	kW	6.5	
380/440V	kW	11.5	
Three-phase AC23A			
220/230V	kW	12.5	
380/440V	kW	30	
500/690V	kW	30	
Single-phase AC23A			
110V	kW	3.7	
220/230V	kW	7.5	
380/440V	kW	12.5	
Rated operational current in DC			

DC21A	48V	A	63
	60V	A	50
	110V	A	8
	220V	A	1

DC23A (poles in series)	24V	A	50 (1)
	48V	A	50 (2)
	60V	A	50 (3)
	110V	A	25 (3)
	220V	A	15 (4)

DC13	24V	A	63
	48V	A	40
	60V	A	28
	110V	A	3.3

Power dissipation		W	3.4
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**Mechanical features**

Terminals screw			M5
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Tightening torque for terminals max		Nm	2
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**Conductor size**

AWG - Rigid cable	min	AWG	14
	Max	AWG	6

AWG - Flexible cable	min	AWG	14
	Max	AWG	8

Conductor size (IEC) - Flexible cable	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	10

Conductor size (IEC) - Rigid cable	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	16

Mechanical life		cycles	5x10 <sup>6</sup>
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**UL technical data**

Motor power for direct-on-line control for three-phase motor	120V	HP	7.5
	240V	HP	15
	480V	HP	25
	600V	HP	25

for single-phase motor	120V	HP	3
	240V	HP	10

**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
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Terminals IP degree

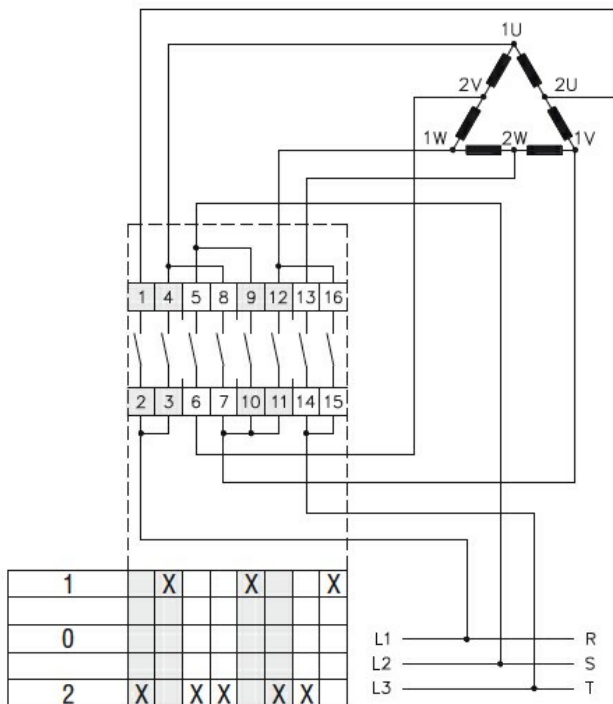
IP00

**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 <sup>Ⓟ</sup>	75x75 <sup>Ⓟ</sup>	1-2	3-4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20 <sup>Ⓟ</sup>		1-2	3-4												
7GN25 <sup>Ⓟ</sup>		1	2-3												
7GN12 <sup>Ⓟ</sup>	90x90	1-3	4-6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20 <sup>Ⓟ</sup>		1-3	4-6												
7GN25 <sup>Ⓟ</sup>		1-2	3-4												
7GN32		1	2-3												
7GN40		1	2-3												
7GN12	110x110	1-4	5-8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN20		1-4	5-8												
7GN25		1-3	4-5												
7GN32 <sup>Ⓟ</sup>		1-2	3-5												
7GN40 <sup>Ⓟ</sup>		1-2	3-5												
7GN63		1-2	3-4												
7GN32 <sup>Ⓟ</sup>	125x175	1-2	3-4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40 <sup>Ⓟ</sup>		1-2	3-4												
7GN63 <sup>Ⓟ</sup>		1-2	3-4												
7GN125		1	2												
7GN32	198x248	-	1-7	198	248	190-210	140-180	5.5	32	35	104	-	166.5	6xPG16- 21-29	IP65
7GN40		-	1-7												
7GN63 <sup>Ⓟ</sup>		-	1-6												
7GN125 <sup>Ⓟ</sup>		-	1-4												

- Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).
- Ⓧ Standard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

**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