

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	32
	UL/CSA	A	40
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	32
	15kA	A	32
	25kA	A	32
	50kA	A	32
Rated short time current I_{cw}	1s	kA	800
			10/5 mA/V
Conductivity			
Operational current I_e IEC/EN	AC1/AC21A		
		A	32
Operational current I_e IEC/EN	AC15		
	110V	A	25
	220/230V	A	20
	380/400V	A	10
	660/690V	A	2
Rated operational power in AC	Three-phase AC-3		
	220/230V	kW	7.5
	380/440V	kW	11
	500/690V	kW	11
	Single-phase AC-3		
	110V	kW	2.2
	220/230V	kW	4
	380/440V	kW	6.5
	Three-phase AC23A		
	220/230V	kW	8
	380/440V	kW	15
	500/690V	kW	18.5
	Single-phase AC23A		
	110V	kW	2.2
	220/230V	kW	4
	380/440V	kW	7.5
Rated operational current in DC	DC21A		

		48V	A	32
		60V	A	32
		110V	A	6
		220V	A	0.9
DC23A (poles in series)				
		24V	A	32 (1)
		48V	A	32 (2)
		60V	A	32 (3)
		110V	A	15 (3)
		220V	A	12 (4)
DC13				
		24V	A	32
		48V	A	25
		60V	A	16
		110V	A	3
		220V	A	0.5
Power dissipation			W	1.5
Mechanical features				
Terminals screw				M4
Tightening torque for terminals max			Nm	1.2
Conductor size				
AWG - Rigid cable				
		min	AWG	16
		Max	AWG	8
AWG - Flexible cable				
		min	AWG	16
		Max	AWG	10
Conductor size (IEC) - Flexible cable				
		min	mm ²	1.5
		Max	mm ²	4
Conductor size (IEC) - Rigid cable				
		min	mm ²	1.5
		Max	mm ²	6
Mechanical life			cycles	5x10 ⁶
UL technical data				
Motor power for direct-on-line control				
for three-phase motor				
		120V	HP	5
		240V	HP	10
		480V	HP	15
		600V	HP	15
for single-phase motor				
		120V	HP	2
		240V	HP	5
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

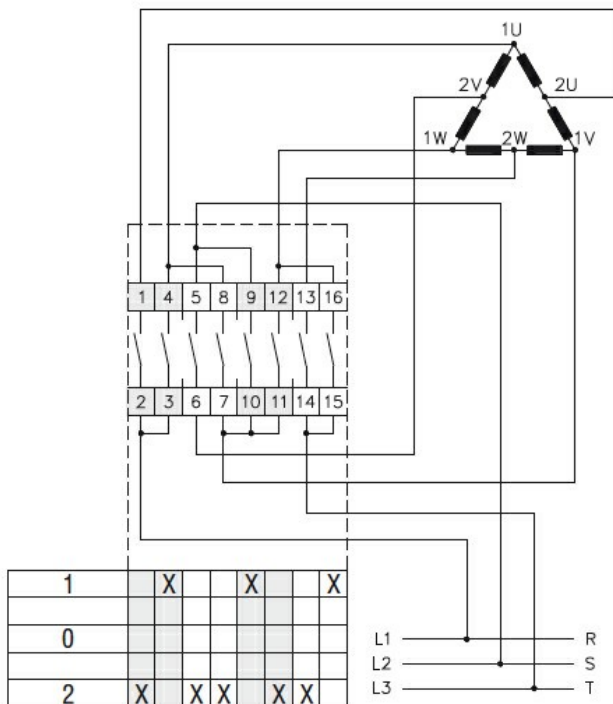
Dimensions

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12 ^①	75x75 ^②	1 - 2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20 ^①		1 - 2	3 - 4												
7GN25 ^①		1	2 - 3												
7GN12 ^②	90x90	1 - 3	4 - 6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20 ^②		1 - 3	4 - 6												
7GN25 ^②		1 - 2	3 - 4												
7GN32		1	2 - 3												
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		1 - 2	3 - 5												
7GN40 ^①		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 ^②		1 - 2	3 - 4												
7GN40 ^②		1 - 2	3 - 4												
7GN63 ^②		1 - 2	3 - 4												
7GN125	198x248	1	2	198	248	190-210	140-180	5.5	32	35	104	-	166.5	6xPG16- 21-29	IP65
7GN32		-	1 - 7												
7GN40		-	1 - 7												
7GN63 ^②		-	1 - 6												
7GN125 ^②		-	1 - 4												

① Standard dimensions for cam switch in plastic enclosure with black handle (P).

② 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