

General characteristics

Switching diagram	19 - Dahlander motor control switch 0-1-2
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	20
	UL/CSA	A	20
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	20
	15kA	A	16
	25kA	A	16
Rated short time current I_{cw}	1s	kA	250
			10/5 mA/V
Conductivity			
Operational current I_e IEC/EN	AC1/AC21A		
		A	20
AC15	110V	A	10
	220/230V	A	8
	380/400V	A	6
	660/690V	A	1.5
Rated operational power in AC	Three-phase AC-3		
	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	5.5
	Single-phase AC-3		
	110V	kW	0.8
	220/230V	kW	2.2
	380/440V	kW	3
	Three-phase AC23A		
	220/230V	kW	5
	380/440V	kW	7.5
	500/690V	kW	7.5
Single-phase AC23A	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7
Rated operational current in DC	DC21A		
	48V	A	20

		60V	A	20
		110V	A	4
		220V	A	0.6
		440V	A	0.25
DC23A (poles in series)				
		24V	A	20 (1)
		48V	A	20 (2)
		60V	A	20 (3)
		110V	A	10 (3)
		220V	A	8 (4)
DC13				
		24V	A	20
		48V	A	16
		60V	A	12
		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	5x10 ⁶
UL technical data				
Motor power for direct-on-line control				
for three-phase motor				
	120V	HP		1.5
	240V	HP		3
	480V	HP		7.5
	600V	HP		10
for single-phase motor				
	120V	HP		0.75
	240V	HP		2
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

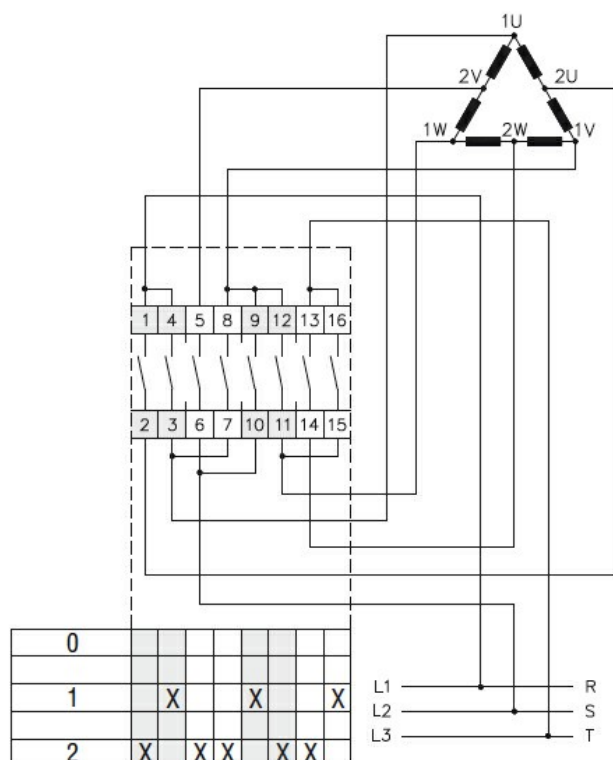
Dimensions

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12🔌	75x75🔌	1 - 2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20🔌		1 - 2	3 - 4												
7GN25🔌		1	2 - 3												
7GN12🔌	90x90	1 - 3	4 - 6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20🔌		1 - 3	4 - 6												
7GN25🔌		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 🔌		1 - 2	3 - 5												
7GN40🔌		1 - 2	3 - 5												
7GN63		1 - 2	3 - 4												
7GN32🔌	125x175	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40🔌		1 - 2	3 - 4												
7GN63🔌		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🔌		-	1 - 6												
7GN125🔌🔌		-	1 - 4												

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

② DStandard 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