

General characteristics

Switching diagram	53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
N° of elements	3
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	
			10/5 mA/V	
Conductivity			10/5 mA/V	
Operational current I_e IEC/EN	AC1/AC21A	A	63	
	AC15			
	110V	A	32	
	220/230V	A	25	
	380/400V	A	15	
	660/690V	A	4	
Rated operational power in AC	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
Mechanical features			
Terminals screw			M5
Tightening torque for terminals max		Nm	2
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 ²	2.5
	Max	mm ²	10
Conductor size (IEC) - Rigid cable	min	mm ²	2.5
	Max	mm ²	16
Mechanical life		cycles	5x10 ⁶
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

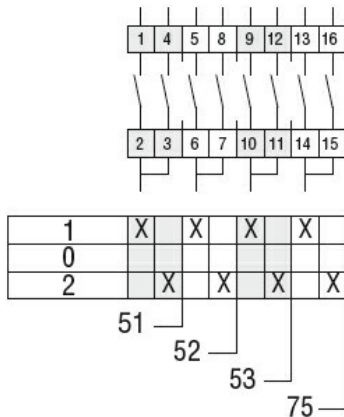
Terminals IP degree IP00

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	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Ⓟ		-	1-6												
7GN125Ⓟ		-	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

EC001105 - Off-load switch