

General characteristics

Switching diagram	86 - Multi-step 1-2-3 2 poles
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
	Conductivity		
Operational current I_e IEC/EN	AC1/AC21A		
		A	63
Operational current I_e IEC/EN	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
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DC23A (poles in series)	24V	A	50 (1)
	48V	A	50 (2)
	60V	A	50 (3)
	110V	A	25 (3)
	220V	A	15 (4)
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DC13	24V	A	63
	48V	A	40
	60V	A	28
	110V	A	3.3
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Power dissipation		W	3.4
Mechanical features			
Terminals screw			M5
Tightening torque for terminals max		Nm	2
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Conductor size			
AWG - Rigid cable	min	AWG	14
	Max	AWG	6
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AWG - Flexible cable	min	AWG	14
	Max	AWG	8
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Conductor size (IEC) - Flexible cable	min	mm ²	2.5
	Max	mm ²	10
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Conductor size (IEC) - Rigid cable	min	mm ²	2.5
	Max	mm ²	16
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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
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for single-phase motor	120V	HP	3
	240V	HP	10
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Ambient conditions			
Temperature			
Operating temperature	min	°C	-25
	max	°C	+55
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Storage temperature	min	°C	-40
	max	°C	+70
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Resistance & Protection			
Frontal IP degree			IP65
Terminals IP degree			IP00

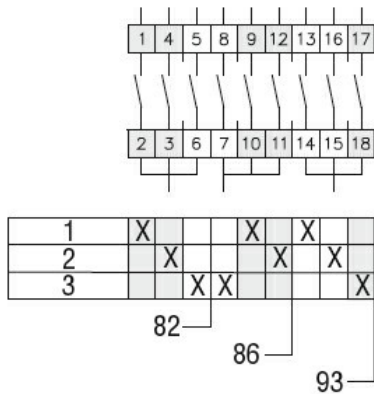
Dimensions

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	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 [Ⓟ]	1-2	3-5													
7GN40 [Ⓟ]	1-2	3-5													
7GN63	1-2	3-4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65	
7GN32 [Ⓟ]	1-2	3-4													
7GN40 [Ⓟ]	1-2	3-4													
7GN63 [Ⓟ]	1-2	3-4													
7GN125	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).

Ⓟ D 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