

General characteristics

Switching diagram	123 - Multi-step 0-1-2 2 poles
N° of elements	2
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	40
	UL/CSA	A	50
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	40
	15kA	A	40
	25kA	A	40
	50kA	A	40
	63kA	A	40
Rated short time current I_{cw}	1s	kA	1000
			10/5 mA/V
Conductivity			
Operational current I_e IEC/EN			
	AC1/AC21A	A	40
AC15	110V	A	25
	220/230V	A	22
	380/400V	A	12
	660/690V	A	2
Rated operational power in AC			
	Three-phase AC-3	220/230V	kW 8
		380/440V	kW 15
		500/690V	kW 15
	Single-phase AC-3	110V	kW 3
		220/230V	kW 6.5
		380/440V	kW 8
	Three-phase AC23A	220/230V	kW 8
		380/440V	kW 18.5
		500/690V	kW 22
	Single-phase AC23A	110V	kW 3
		220/230V	kW 6
		380/440V	kW 11
Rated operational current in DC			
	DC21A		

		48V	A	40
		60V	A	40
		110V	A	6
		220V	A	0.9
DC23A (poles in series)				
		24V	A	40 (1)
		48V	A	40 (2)
		60V	A	40 (3)
		110V	A	20 (3)
		220V	A	12 (4)
DC13				
		24V	A	40
		48V	A	32
		60V	A	16
		110V	A	3
Power dissipation			W	2.0
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		6
Conductor size (IEC) - Rigid cable				
	min	mm ²		1.5
	Max	mm ²		10
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		20
	600V	HP		20
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

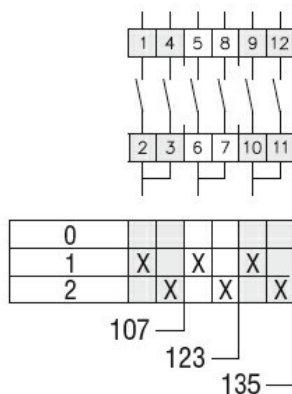
Dimensions

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12 [Ⓟ]	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	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 - 2	3 - 5												
7GN40 [Ⓟ]		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 [Ⓟ]		1 - 2	3 - 4												
7GN40 [Ⓟ]		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												

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

Ⓟ 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