

General characteristics

Switching diagram	86 - Multi-step 1-2-3 2 poles
N° of elements	3
Mounting form	O - Rear mounting 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	
	Conductivity			10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A		A	20
	AC15			
		110V	A	10
		220/230V	A	8
		380/400V	A	6
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	
Rated operational current in DC	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
<hr/>				
DC23A (poles in series)		24V	A	20 (1)
		48V	A	20 (2)
		60V	A	20 (3)
		110V	A	10 (3)
		220V	A	8 (4)
<hr/>				
DC13		24V	A	20
		48V	A	16
		60V	A	12
		110V	A	1
		220V	A	0.4
		440V	A	0.15
<hr/>				
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for terminals max			Nm	0.5
<hr/>				
Conductor size				
	AWG - Rigid cable			
		min	AWG	20
		Max	AWG	12
<hr/>				
	AWG - Flexible cable			
		min	AWG	20
		Max	AWG	14
<hr/>				
	Conductor size (IEC) - Flexible cable			
		min	mm ²	0.5
		Max	mm ²	2.5
<hr/>				
	Conductor size (IEC) - Rigid cable			
		min	mm ²	0.5
		Max	mm ²	2.5
<hr/>				
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
<hr/>				
	for single-phase motor			
		120V	HP	0.75
		240V	HP	2
<hr/>				
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
<hr/>				
	Storage temperature			
		min	°C	-40
		max	°C	+70
<hr/>				
Resistance & Protection				
Frontal IP degree				IP40

Terminals IP degree

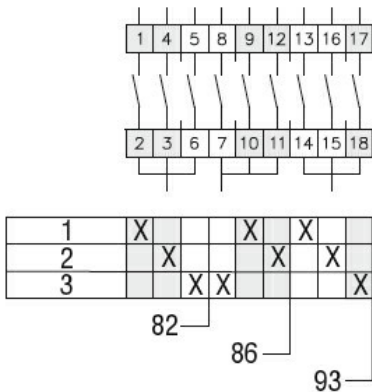
IP00

Dimensions



Series	Dimensions								L Number of elements											
	□A	C	ØD	ØD2	E	H	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	220.3	249.4	278.5	307.6	336.7	365.8	394.9

Wiring diagrams



Certifications and compliance

Compliance

- CSA C22.2 n° 14
- IEC/EN/BS 60947-1
- IEC/EN/BS 60947-3
- IEC/EN/BS 60947-5-1
- UL60947-4-1

Certificates

- cCSAus
- EAC
- UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete