

### 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	125
	UL/CSA	A	130
Rated operational voltage		V	690
Rated operational impulse voltage		kV	6
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	125
	15kA	A	100
	25kA	A	100
	50kA	A	100
	63kA	A	100
Rated short time current $I_{cw}$	1s	kA	2100
	Conductivity		
Operational current $I_e$ IEC/EN			10/5 mA/V
AC1/AC21A			
			A
AC15			
110V			A
220/230V			A
380/400V			A
660/690V			A
Rated operational power in AC			
Three-phase AC-3			
220/230V			kW
380/440V			kW
500/690V			kW
Single-phase AC-3			
110V			kW
220/230V			kW
380/440V			kW
Three-phase AC23A			
220/230V			kW
380/440V			kW
500/690V			kW
Single-phase AC23A			
110V			kW
220/230V			kW
380/440V			kW
Rated operational current in DC			
DC21A			

	48V	A	125
	60V	A	80
	110V	A	10
	220V	A	1.2
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DC23A (poles in series)	24V	A	125 (1)
	48V	A	125 (2)
	60V	A	125 (3)
	110V	A	50 (3)
	220V	A	20 (4)
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DC13	24V	A	125
	48V	A	100
	60V	A	50
	110V	A	4
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Power dissipation		W	6.3
<b>Mechanical features</b>			
Terminals screw			M2X5
Tightening torque for terminals max		Nm	2
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Conductor size			
AWG - Rigid cable	min	AWG	14
	Max	AWG	1/0
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AWG - Flexible cable	min	AWG	14
	Max	AWG	1/0
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Conductor size (IEC) - Flexible cable	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	50
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Conductor size (IEC) - Rigid cable	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	50
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Mechanical life		cycles	1X10 <sup>6</sup>
<b>UL technical data</b>			
Motor power for direct-on-line control			
for three-phase motor	120V	HP	15
	240V	HP	25
	480V	HP	50
	600V	HP	40
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for single-phase motor	120V	HP	5
	240V	HP	15
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<b>Ambient conditions</b>			
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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<b>Resistance &amp; Protection</b>			
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 <sup>Ⓟ</sup>	75x75 <sup>Ⓟ</sup>	1-2	3-4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20 <sup>Ⓟ</sup>		1-2	3-4												
7GN25 <sup>Ⓟ</sup>		1	2-3												
7GN12 <sup>Ⓟ</sup>	90x90	1-3	4-6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20 <sup>Ⓟ</sup>		1-3	4-6												
7GN25 <sup>Ⓟ</sup>		1-2	3-4												
7GN32 <sup>Ⓟ</sup>		1	2-3												
7GN40 <sup>Ⓟ</sup>		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 <sup>Ⓟ</sup>		1-2	3-5												
7GN40 <sup>Ⓟ</sup>		1-2	3-5												
7GN63 <sup>Ⓟ</sup>		1-2	3-4												
7GN32 <sup>Ⓟ</sup>	125x175	1-2	3-4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40 <sup>Ⓟ</sup>		1-2	3-4												
7GN63 <sup>Ⓟ</sup>		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 <sup>Ⓟ</sup>		-	1-6												
7GN125 <sup>Ⓟ</sup>		-	1-4												

Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).  
<sup>Ⓟ</sup> DStandard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete