



Product designation	Undervoltage trip releases with early-make contacts
Product type designation	SM1X
Description	Undervoltage trip releases
Accessories for	SM1R...

Auxiliary contact characteristics

Type of contact		2NO
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	4
UL/CSA and IEC/EN 60947-5-1 designation		C600 - Q600
Min. conductivity		5V 10mA
Operating current AC15		
	24V	A 2.5
	48V	A 2.5
	60V	A 2.5
	110V	A 1.5
	230V	A 1.5
	400V	A 0.95
	500V	A 0.35
	690V	A 0.3

Operating current DC13		
	24V	A 2.5
	48V	A 2.5
	60V	A 2.5
	110V	A 0.55
	125V	A 0.55
	220V	A 0.27
	600V	A 0.1

Operational characteristics

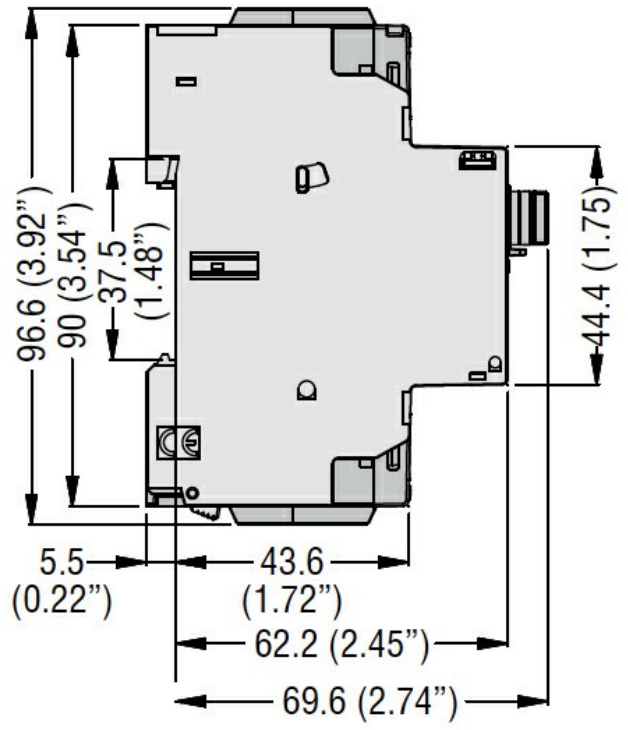
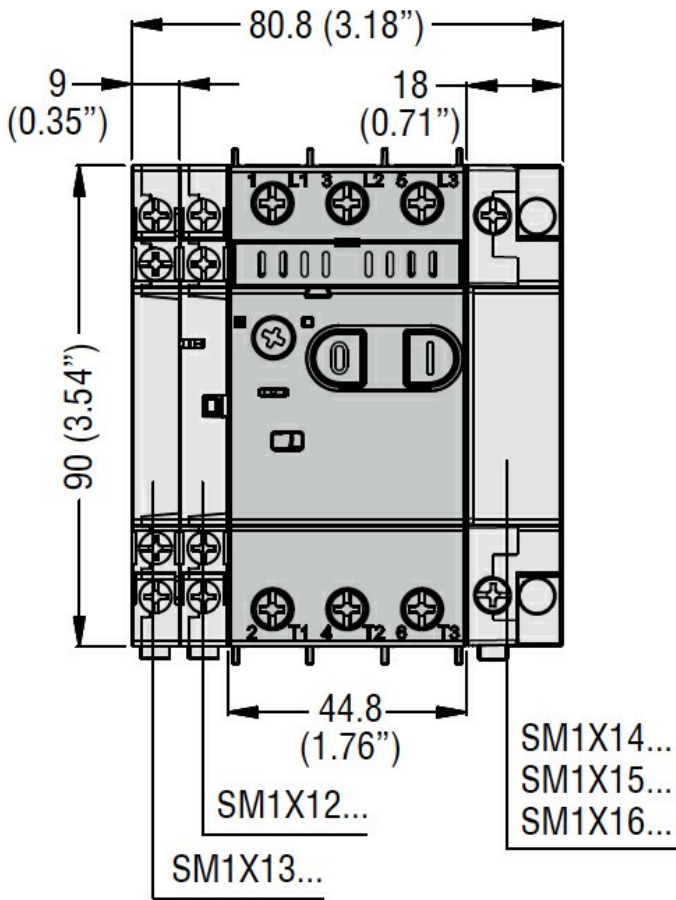
Rated supply voltage AC	VAC	24
Rated frequency	Hz	50
In-rush consumption	VA	12
Holding consumption	VA	3.5
Release voltage	Us	35...70
Operating voltage	US	85...110

Mechanical features

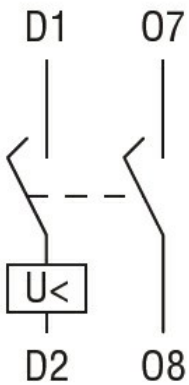
Tightening torque for terminals		
	min	Nm 1
	max	Nm 1
	min	Ibin 9
	max	Ibin 9

Conductor section	AWG/Kcmil
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	min		18
	max		14
Flexible w/o lug conductor section	min	mm ²	0.75
	max	mm ²	2.5
Flexible c/w lug conductor section	min	mm ²	0.75
	max	mm ²	2.5
Operating position	normal allowable		Vertical Any
Terminals	type screw width tool	mm	Screw M3.5 7.2 Ph2
Weight		g	130
Operations			
Mechanical life		cycles	100000
Ambient conditions			
Temperature	Operating temperature	min °C	-20
		max °C	+60
	Storage temperature	min °C	-50
		max °C	+80
Max altitude		m	3000
IEC degree of protection			IP20
Dimensions			



Wiring diagrams



Certifications and compliance

Compliance

- CSA C22.2 n° 14
- IEC/EN 60947-1
- IEC/EN 60947-5-1
- UL508

Certificates

- cULus
- EAC

ETIM classification