



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 Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	4
UL/CSA and IEC/EN 60947-5-1 designation			C600 - Q600
Min. conductivity			5V 10mA
Operating current AC15			
	24V	А	2.5
	48V	А	2.5
	60V	А	2.5
	110V	А	1.5
	230V	А	1.5
	400V	А	0.95
	500V	А	0.35
	690V	Α	0.3
Operating current DC13			
	24V	Α	2.5
	48V	Α	2.5
	60V	А	2.5
	110V	A	0.55
	125V	A	0.55
	220V	А	0.27
	600V	А	0.1
Operational characteristics			
Rated supply voltage AC		VAC	230
Rated frequency		Hz	50
In-rush consumption		VA	12
Holding consumption		VA	3.5
Release voltage		Us	3570
Operating voltage		US	85110
Mechanical features			
Tightening torque for terminals			
	min	Nm	1
	max	Nm	1
	min	lbin	9
	max	lbin	9

SM1X15230R

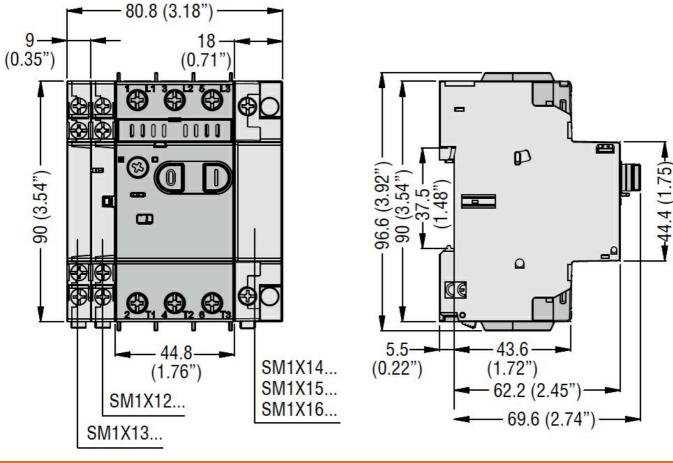


SM1X15230R UNDERVOLTAGE TRIP RELEASE WITH EARLY-MAKE CONTACTS. 230VAC 50HZ FOR SM1R...

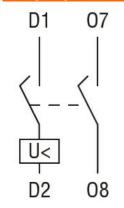
normal allowable Vertical Any Terminals type Screw type Screw M3.5 width mm 7.2 tool Ph2 Weight g 130 Operations					
Flexible w/o lug conductor section min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 0.75 max mm² 0.75 max mm² 0.75 max mm² 0.75 max mm² 2.5 Operating position normal Vertical allowable Any Any Terminals type Screw Weight g 130 Operations g 130 Mechanical life cycles 100000 Ambient conditions remperature min °C -20 max °C -20 remax °C -60 Storage temperature min °C -50 remax °C +60 Max altitude m 3000 max °C +80			min		18
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Flexible c/w lug conductor section min mm² 0.75 max mm² 2.5 Operating position normal Vertical allowable Any Terminals type Screw width mm 7.2 tool Ph2 Weight g Operations g 130 Mechanical life cycles 100000 Ambient conditions min °C Temperature Operating temperature min °C Storage temperature min °C -50 Max altitude m 3000		-	min	mm²	0.75
min mm² 0.75 max Operating position normal Vertical allowable Any Terminals type Screw type Screw M3.5 width mm 7.2 tool Ph2 Weight g 130 Operations			max	mm²	2.5
max mm² 2.5 Operating position normal allowable Vertical Any Terminals type Screw type Screw M3.5 width mm 7.2 tool Ph2 Weight g 130 Operations cycles 100000 Ambient conditions r r Temperature min °C -20 Max altitude min °C +80		Flexible c/w lug conductor section			
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normal allowable Vertical Any Terminals type Screw type Screw Screw width mm 7.2 tool Ph2 Weight g 130 Operations cycles 100000 Ambient conditions cycles 100000 Temperature min °C -20 max Operating temperature min °C +60 Storage temperature min °C +80 Max altitude m 3000			max	mm²	2.5
allowable Any Terminals type Screw type Screw M3.5 width mm 7.2 tool Ph2 Weight g 130 Operations g 130 Mechanical life cycles 100000 Ambient conditions g 100000 Temperature min °C -20 Max altitude min °C -50 Max altitude m 3000	Operating position				
Terminals type Screw screw M3.5 width mm 7.2 tool Ph2 Weight g 130 Operations			normal		Vertical
type Screw screw M3.5 width mm 7.2 width mm 7.2 tool Ph2 Weight g 130 Operations cycles 100000 Ambient conditions cycles 100000 Temperature min °C -20 max Operating temperature min °C -20 max Storage temperature min °C -50 max Max attitude m 3000			allowable		Any
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tool Ph2 Weight g 130 Operations			screw		M3.5
Weight g 130 Operations understand g 130 Mechanical life cycles 100000 Ambient conditions understand understand Temperature min °C -20 Max altitude min °C -50 Max altitude m 3000			width	mm	7.2
Operations cycles 100000 Ambient conditions			tool		Ph2
Mechanical life cycles 100000 Ambient conditions	Weight			g	130
Ambient conditions Temperature Operating temperature min °C max °C Storage temperature min °C min °C Storage temperature min °C max °C Max altitude m	Operations				
Temperature Operating temperature min °C -20 max °C +60 Storage temperature min °C -50 max °C +80 Max altitude m 3000	Mechanical life			cycles	100000
Operating temperature min °C -20 max °C +60 Storage temperature min °C -50 max °C +80 Max altitude m 3000	Ambient conditions				
min °C -20 max °C +60 Storage temperature min °C -50 max °C +80 Max altitude m 3000	Temperature				
max °C +60 Storage temperature min °C -50 max °C +80 Max altitude m 3000		Operating temperature			
Storage temperature min °C -50 max °C +80 Max altitude m 3000			min	°C	-20
min °C -50 max °C +80 Max altitude m 3000			max	°C	+60
min °C -50 max °C +80 Max altitude m 3000		Storage temperature			
Max altitude m 3000		-	min	°C	-50
			max	°C	+80
IEC degree of protection IP20	Max altitude			m	3000
	IEC degree of protect	tion			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	