SM1R1000

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 6.3...10A

Product designation			SM1R
Product type designation			Motor protective circuit breaker
Electrical features			
Number of poles		nr.	3
Magnetic protection			Yes
Thermal protection			Yes
Phase failure detection			Yes
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			6,3…10
Rated current (In)		A	10
Magnetic tripping			13 x In
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	42
	500V	kA	42
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	42
	690V	kA	4
Operations			
Mechanical life		Cycles	100,000
Electrical life		Cycles	100,000
Mechanical feautures			
Tightening torque for terminals			
	min	Nm	3
	max	Nm	3
	min	lbft	2
	max	lbft	2
max number of wires simultaneously connectable		nr.	2
Conductor section			
AWG			
	min		16
	max		8
Flexible w/o lug conductor section			
	min	mm²	1
	max	mm²	10
Flexible c/w lug conductor section			
	min	mm²	1

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		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping lenght				
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	60
	Storage temperature			
		min	°C	-50
		max	°C	80
	Compensation temperature			
		min	°C	-20
		max	°C	50
Max altitude			m	3,000
Operating position				
		normal		Su piano verticale
		allowable		Qualsiasi
Mounting				A vite / profilato omega 35mm
Weight			g	390
UL technical data				
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current				
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
Group Motor Installation				
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
Maximum UL/CSA horsepower ratings single-phase				
		at 110V-120V	hp	1
		at 220V-240V	hp	2
Maximum UL/CSA horsepower ratings three-phase, 3-pole				
		at 200V-208V	hp	3
		at 220V-240V	hp	3
		at 440V-480V	hp	10
		at 550V-600V	hp	-
Dimensions				

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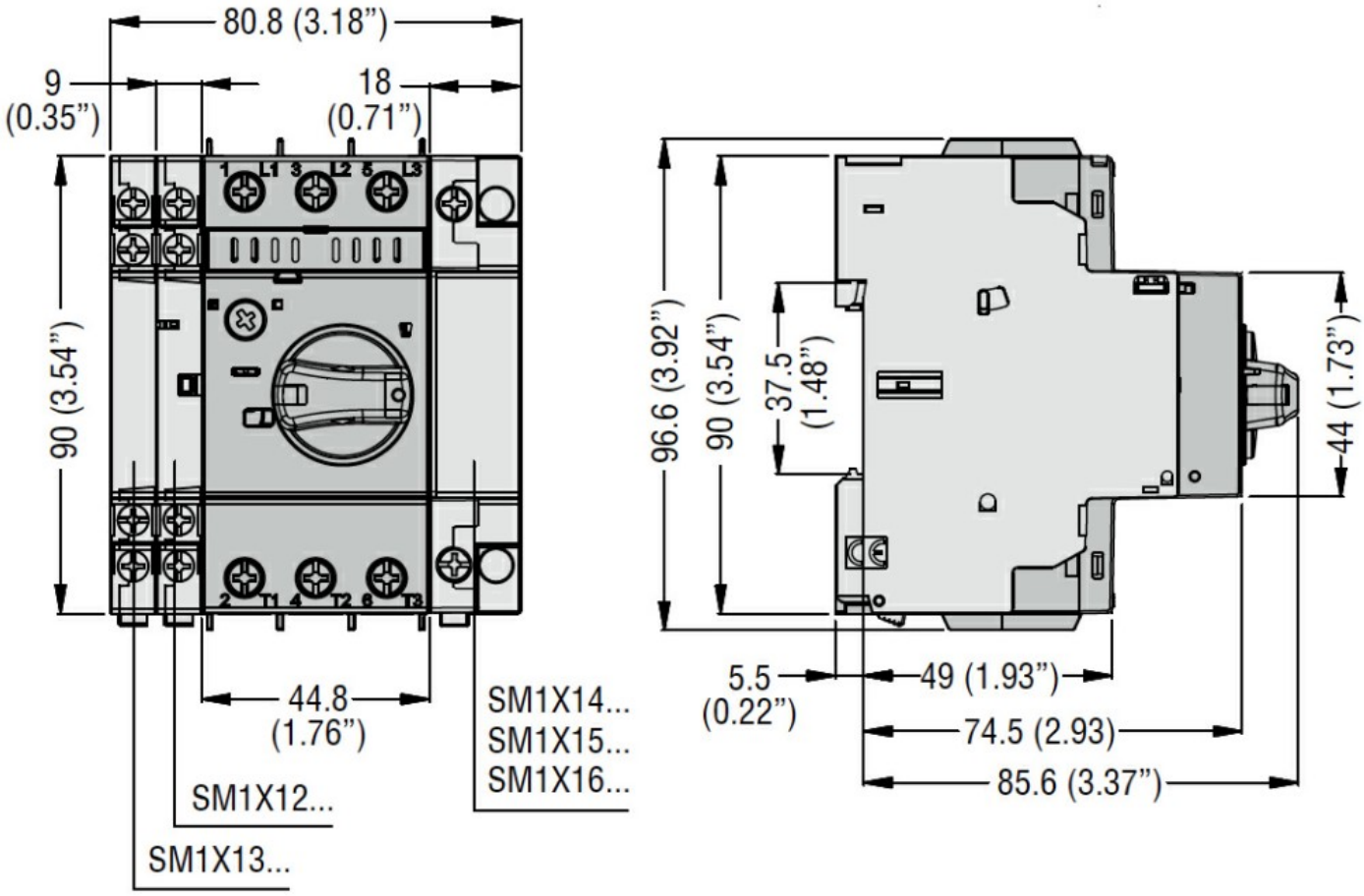
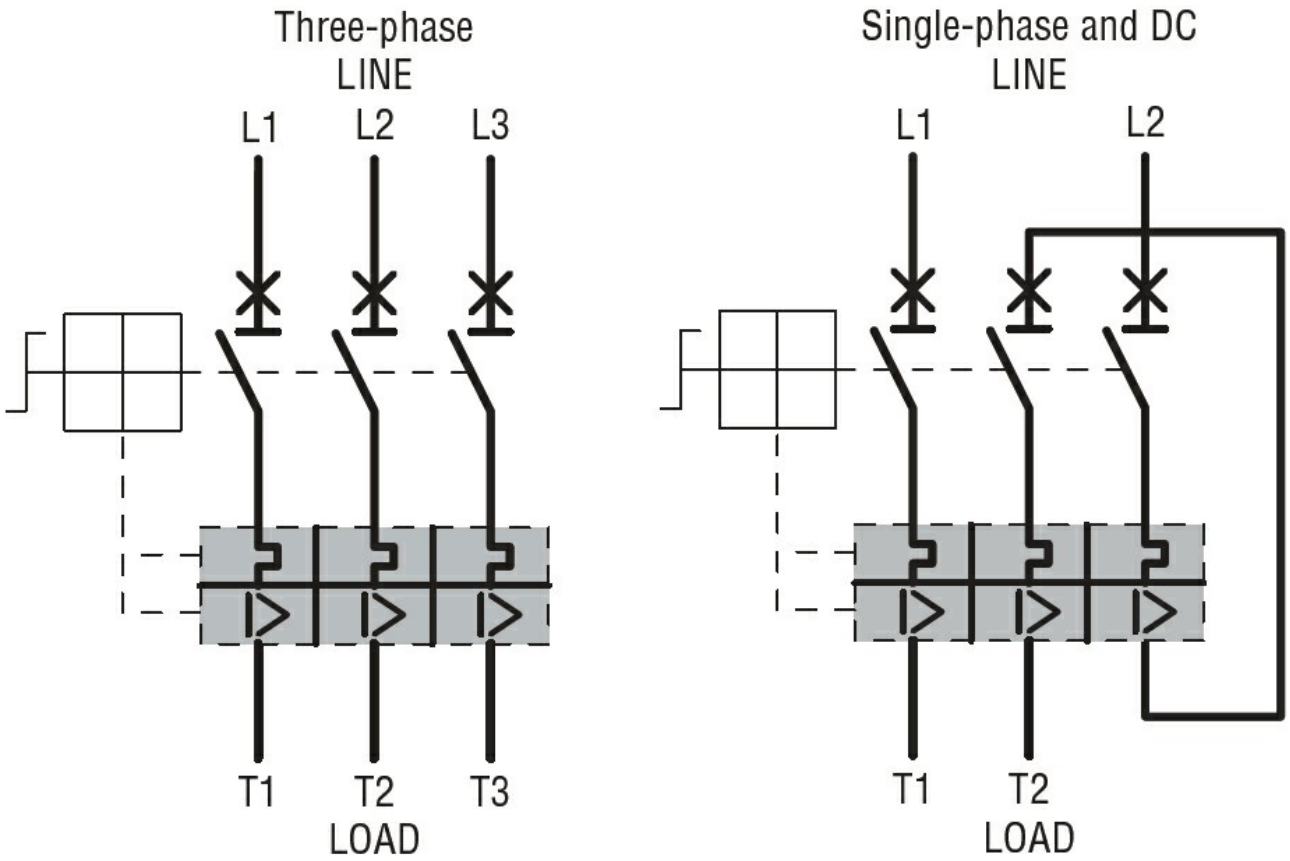


Wiring diagrams



Certifications and compliance

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Certifications	
	CSA C22.2 n° 14
	IEC/EN 60947-1
	IEC/EN 60947-2
	IEC/EN 60947-4-1
	UL508
Compliance	
	cULus
	EAC

ETIM 6 classification

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