SM1R1800

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 13...18A

Electrical features			
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			13…18
Rated current (In)		A	18
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	1.34
	max	W	2.57
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	10
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	22
	max	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8
Flexible w/o lug conductor section			
	min	mm²	1
	max	mm²	10

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	Flexible c/w lug conductor section			
		min	mm²	1
		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 on front
Cable stripping lenght				
		main circuit	mm	10
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	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	390
UL technical data				
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Group Motor Installation				
		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Maximum UL/CSA horsepower ratings single-phase				
		110V-120V	HP	1
		220V-240V	HP	3
Maximum UL/CSA horsepower ratings three-phase, 3-pole				
		200V-208V	HP	5
		220V-240V	HP	5
		440V-480V	HP	10
		550V-600V	HP	15
Dimensions				

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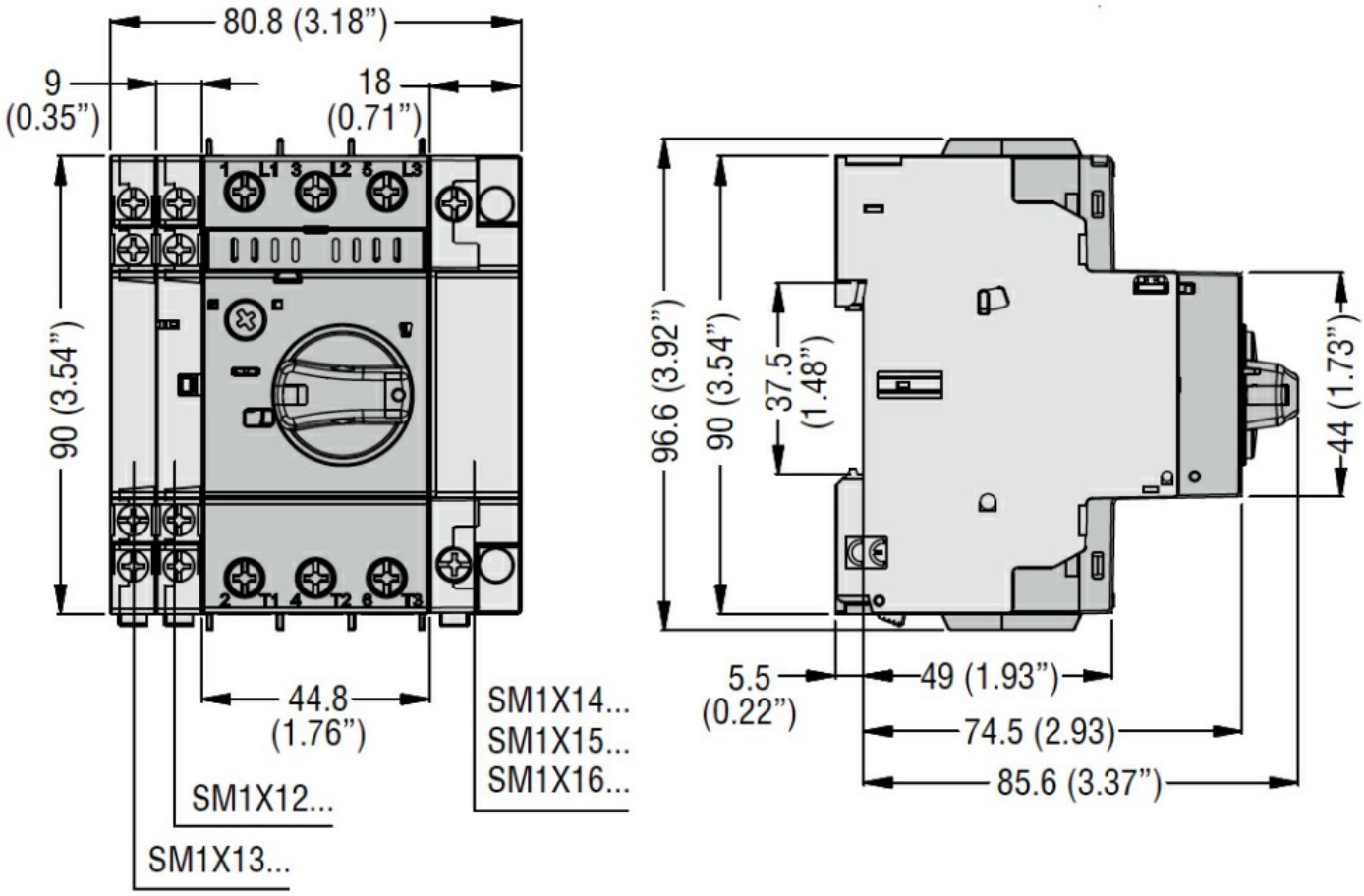
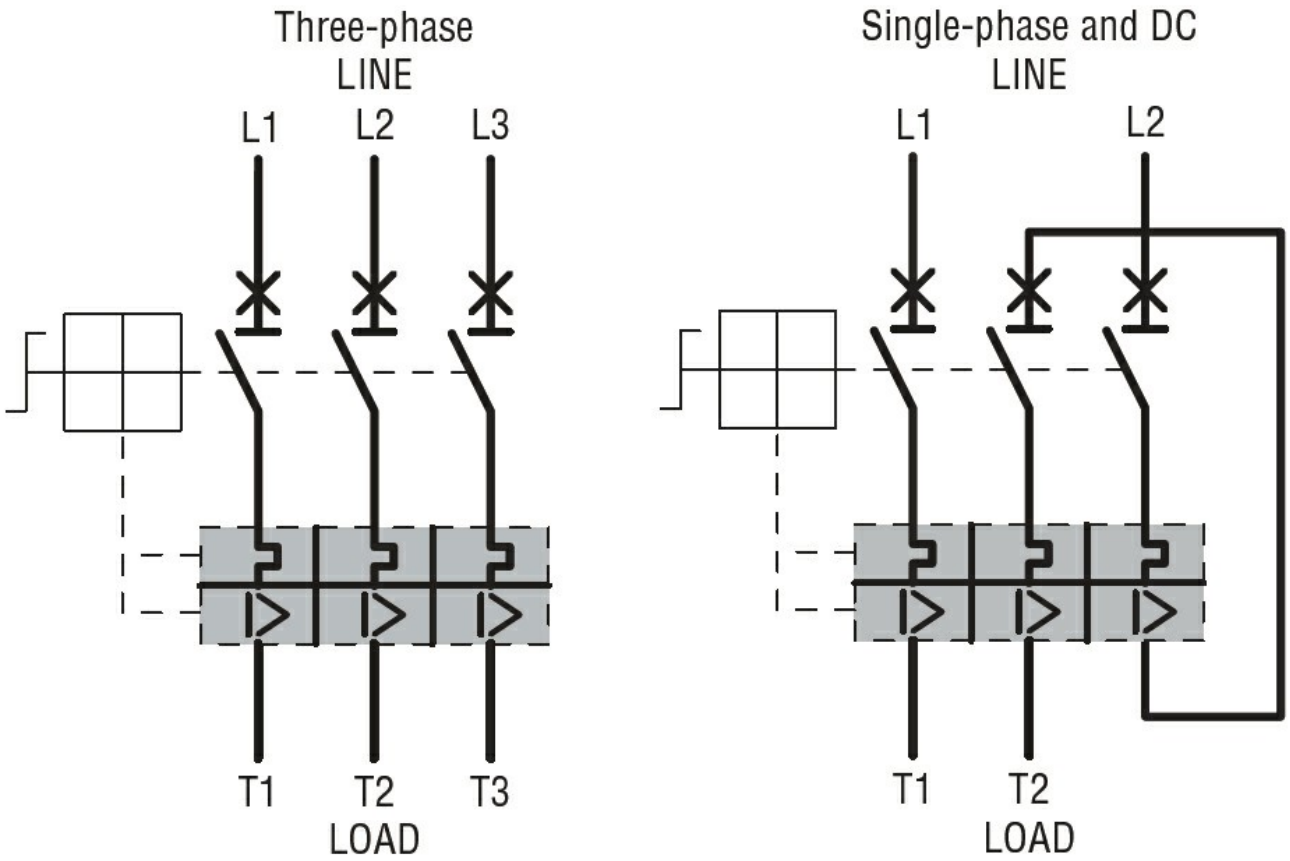


Wiring diagrams



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 classification

ETIM 8.0	EC000074 - Motor protection circuit-breaker

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