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ENERGY AND AUTOMATION

SM1P1400

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 25KA AT 400V, 9...14A



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			9...14
Rated current (In)		A	14
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	1.13
	max	W	2.73
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	12.5
	440V	kA	5
	500V	kA	5
	690V	kA	3
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	25
	440V	kA	10
	500V	kA	10
	690V	kA	3
Breaking capacity short-circuit current (Icn) at DC			
	150V	kA	0
	300V	kA	0
	450V	kA	0
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	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
	AWG/Kcmil		
	min		16

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		max		8
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	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	350
UL technical data				
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
Group Motor Installation				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
Tap Conductor Protection				
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
Maximum UL/CSA horsepower ratings single-phase				
		110V-120V	HP	3/4
		220V-240V	HP	2
Maximum UL/CSA horsepower ratings three-phase, 3-pole				
		200V-208V	HP	3
		220V-240V	HP	3
		440V-480V	HP	10

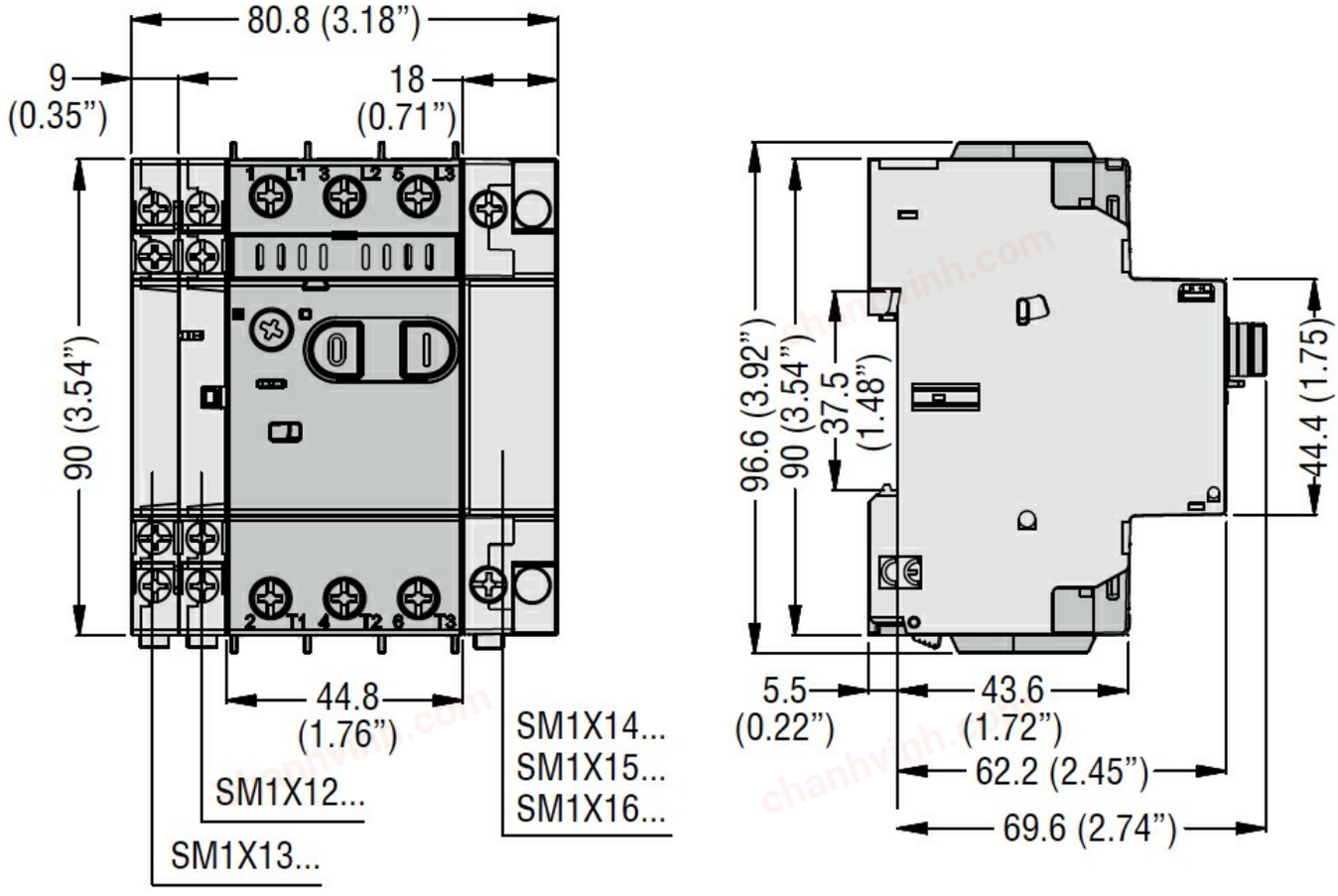
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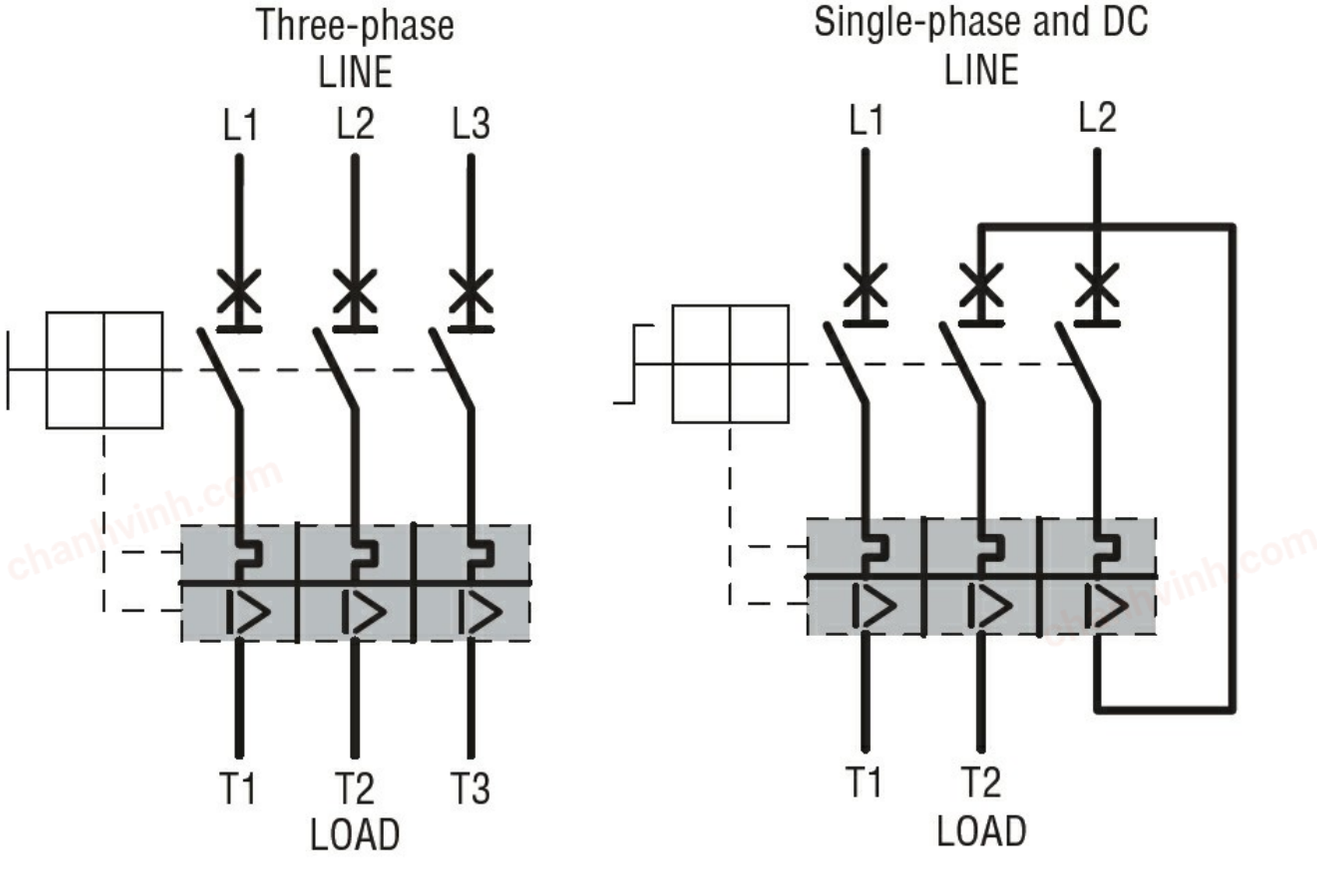
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Dimensions



Wiring diagrams



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Certifications and compliance

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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