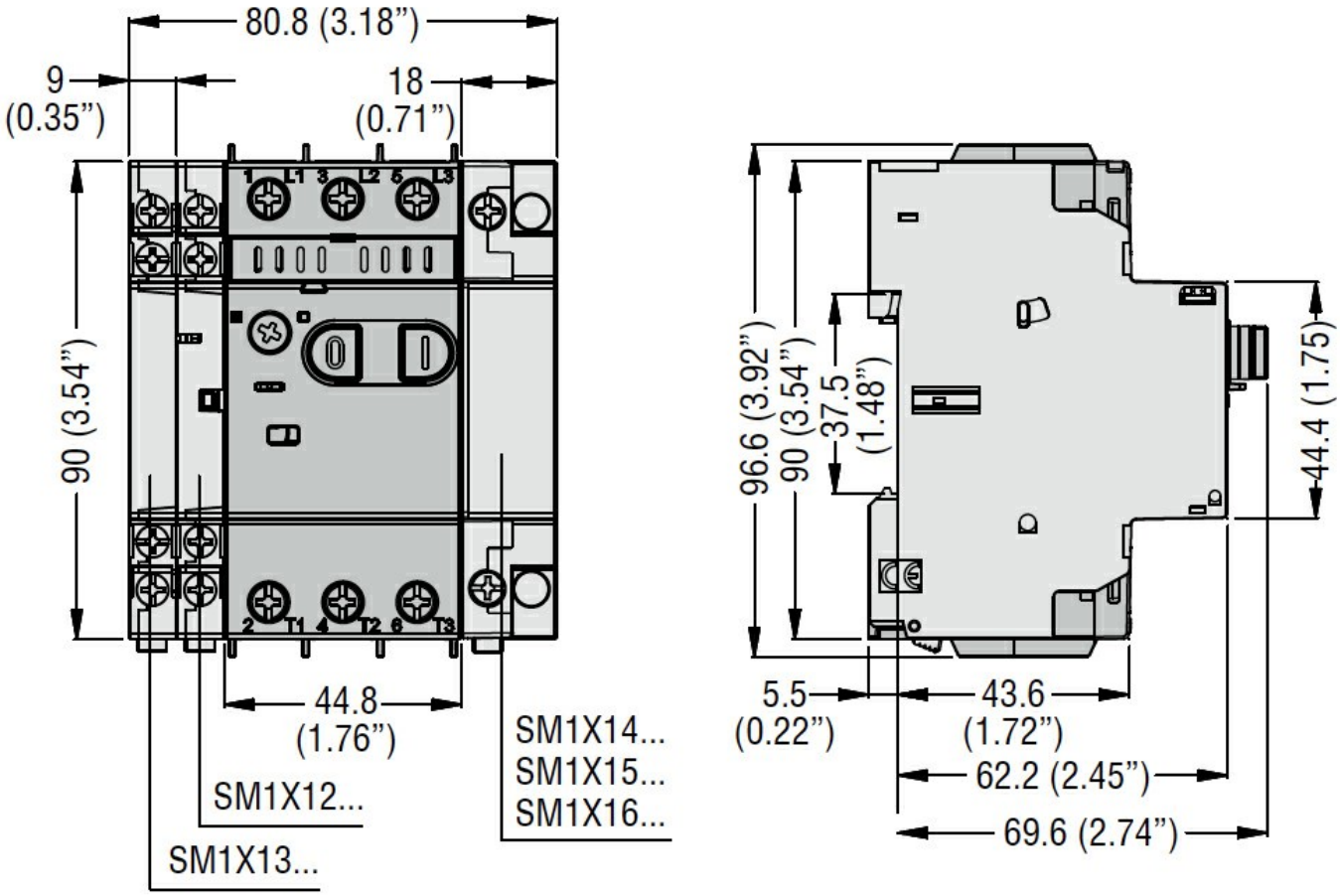
SM1P2500

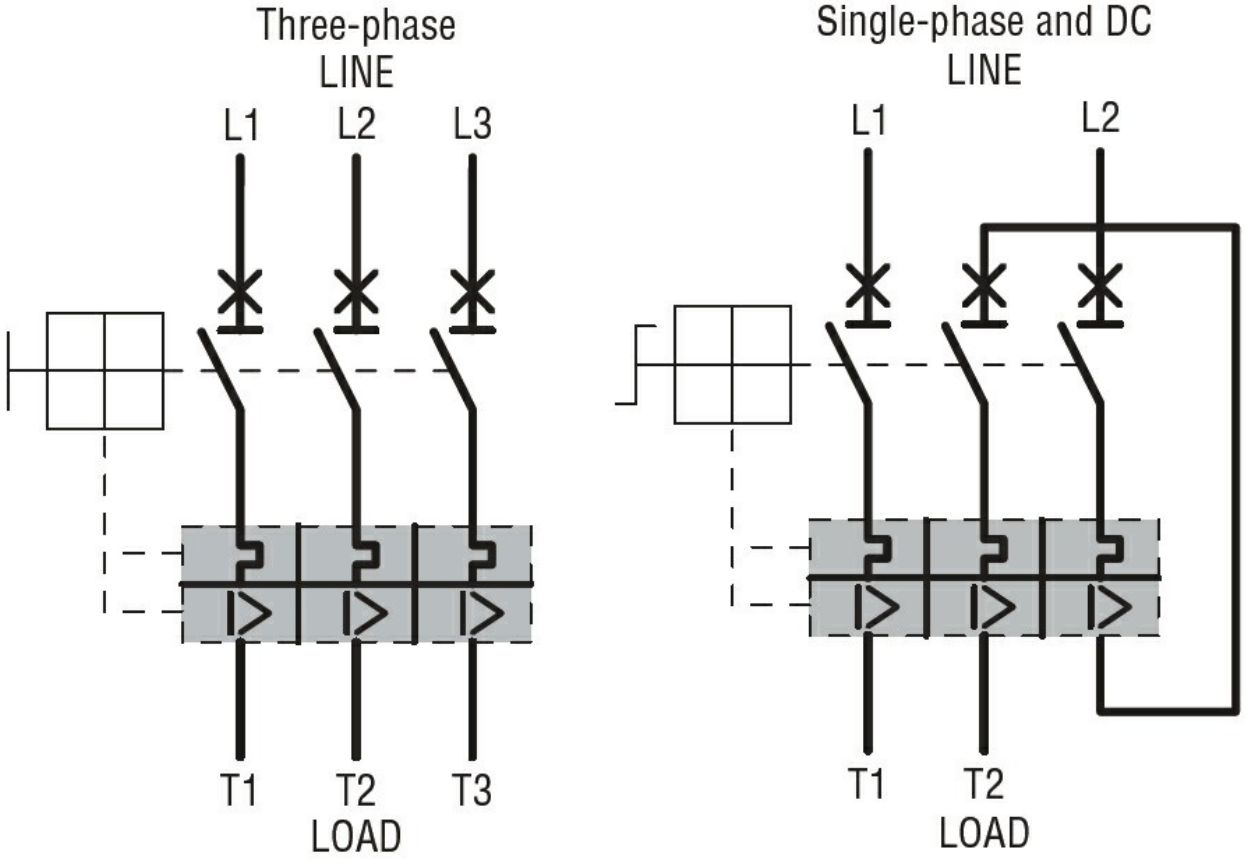
MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 15KA AT 400V, 20...25A

Product designation			Motor protection circuit breaker
Product type designation			SM1P
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			20…25
Rated current (In)		A	25
Magnetic tripping			13 x In
Total power dissipation		W	2.83
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	50
	400V	kA	5
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	50
	400V	kA	15
	440V	kA	10
	500V	kA	10
	690V	kA	2
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

	Flexible c/w lug conductor section			
		min	mm²	1
	Flexible with insulated spade lug conductor section			
		min	mm²	1
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	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	350
UL technical data				
Motor Disconnect				
		at 240V	kA	5
		at 480V	kA	5
		protection		Fuse or CB
Group Motor Installation				
		at 240V	kA	5
		at 480V	kA	5
		protection		Fuse or CB
Tap Conductor Protection				
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current				
		at 240V	kA	50
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
Maximum UL/CSA horsepower ratings single-phase				
		110V-120V	HP	2
		220V-240V	HP	3
Maximum UL/CSA horsepower ratings three-phase, 3-pole				
		200V-208V	HP	5
		220V-240V	HP	7.5
		440V-480V	HP	15
Dimensions				



Wiring diagrams



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