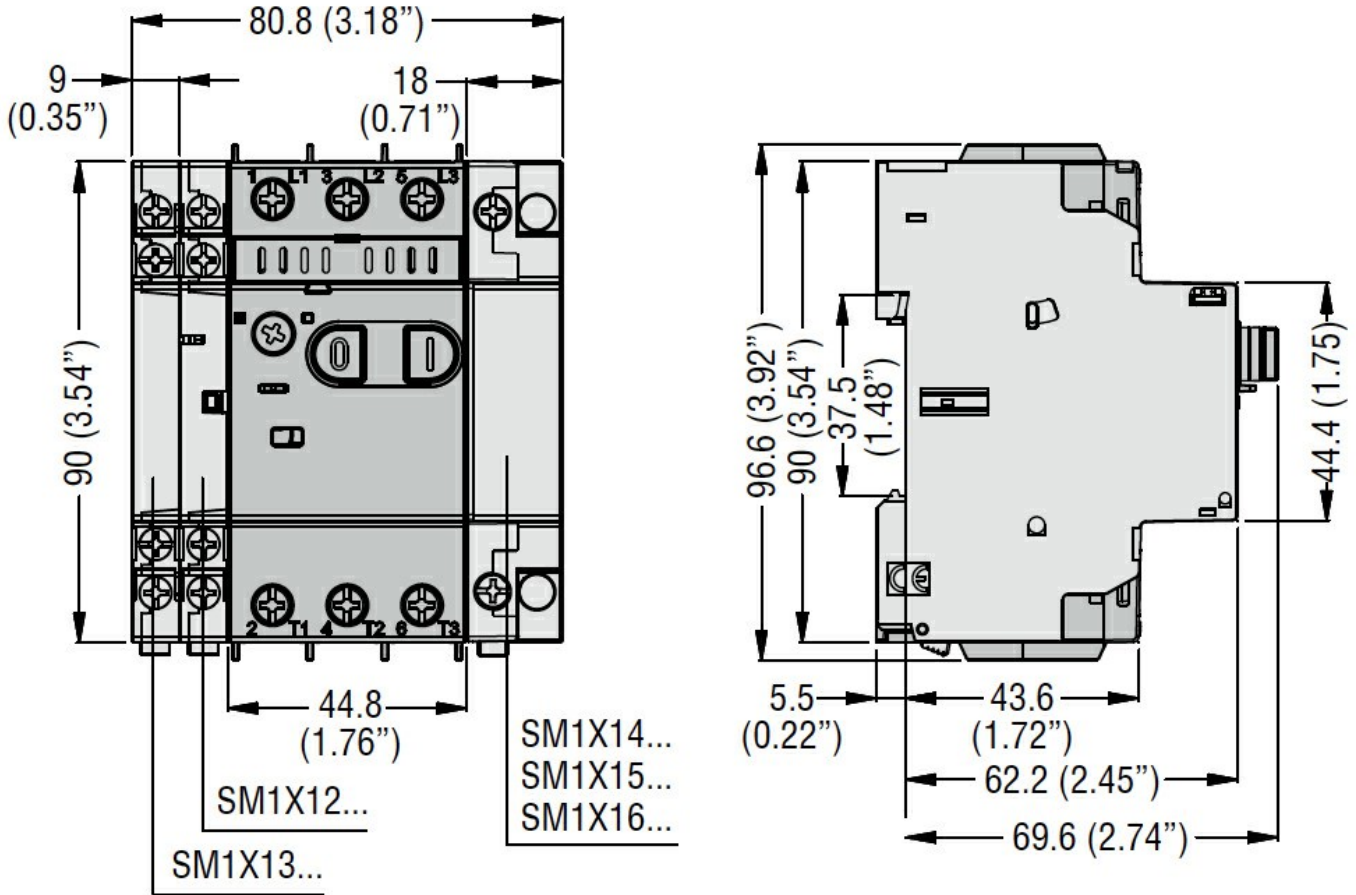




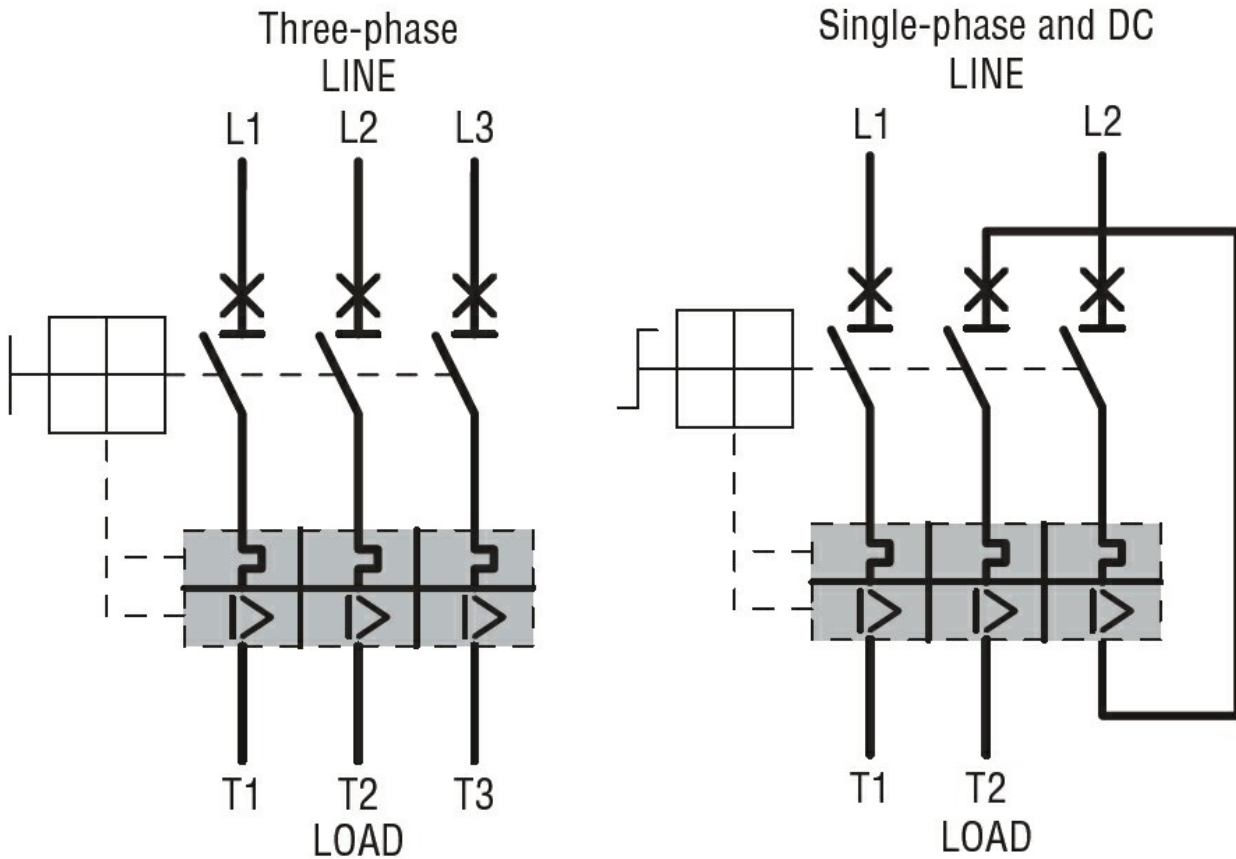
Product designation				Motor protection circuit breaker SM1P
Product type designation				SM1P
Electrical features				
Number of poles	Nr.			3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				yes
Rated insulation voltage U_i IEC/EN	V			690
Rated impulse withstand voltage U_{imp}	kV			6
Rated frequency	Hz			50/60
Thermal trip adjustment range				4...6.5
Rated current (I_n)	A			6.5
Magnetic tripping				13 x I_n
Power dissipation per pole	min	W	0.75	
	max	W	1.99	
Operational short-circuit current breaking capacity (I_{cs}) at AC	230V	kA	100	
	400V	kA	100	
	440V	kA	100	
	500V	kA	100	
	690V	kA	3	
Maximum short-circuit current breaking capacity (I_{cu}) at AC	230V	kA	100	
	400V	kA	100	
	440V	kA	100	
	500V	kA	100	
	690V	kA	3	
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	mm ²	1
	max	mm ²	10
Flexible c/w lug conductor section			
	min	mm ²	1
	max	mm ²	10
Flexible with insulated spade lug conductor section			
	min	mm ²	1
	max	mm ²	10
Screwdriver			PH2
Power terminal protection according to IEC/EN 60529			IP20
Cable stripping length			
	main circuit	mm	12
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 allowable		Vertical plan 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
UL technical data			
	Group Motor Installation at 240V	kA	30
	Group Motor Installation at 480V	kA	30
	Group Motor Installation at 600V	kA	30
	Group Motor Installation 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	1/4
	220V-240V	HP	1/2
Maximum UL/CSA horsepower ratings three-phase, 3-pole			
	200V-208V	HP	1.5
	220V-240V	HP	1.5
	440V-480V	HP	3
	550V-600V	HP	5

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