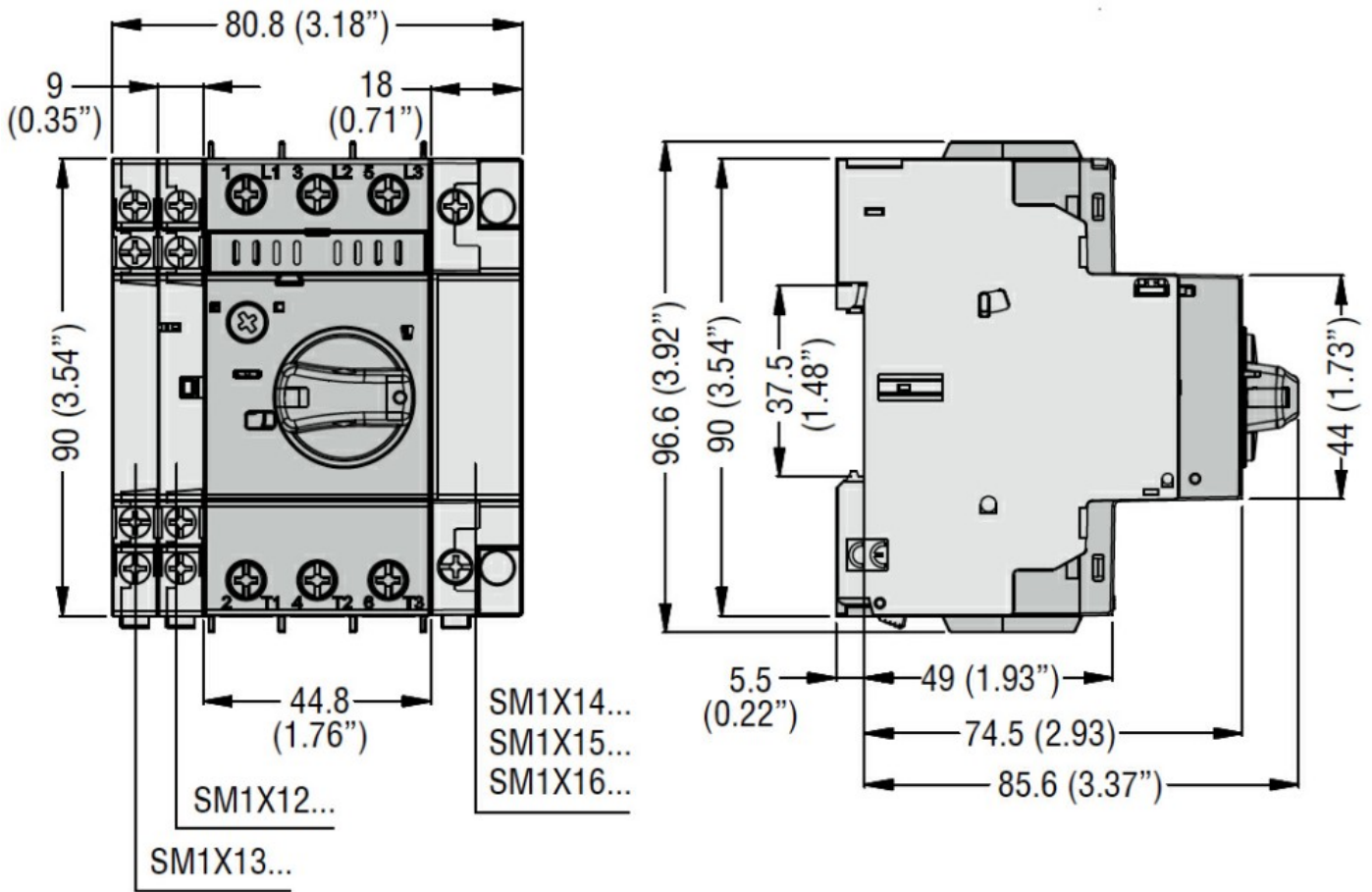




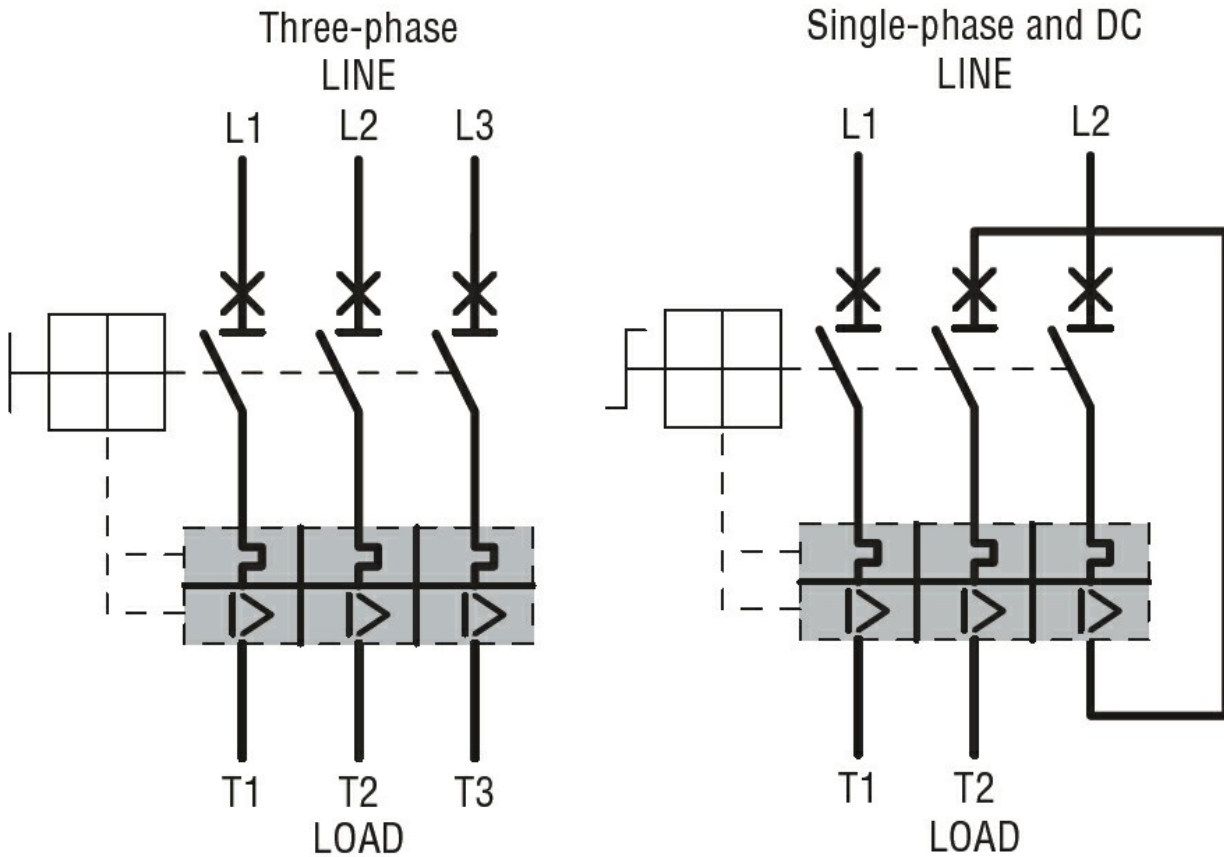
Product designation				Motor protection circuit breaker SM1RM	
Product type designation				SM1RM	
<b>Electrical features</b>					
Magnetic protection				yes	
Thermal protection				no	
Rated insulation voltage $U_i$ IEC/EN	V			690	
Rated impulse withstand voltage $U_{imp}$	kV			6	
Rated frequency	Hz			50/60	
Rated current ( $I_n$ )	A			1.6	
Magnetic tripping				$13 \times I_n$	
Power dissipation per pole	min	W	0.90		
	max	W	2.30		
Operational short-circuit current breaking capacity ( $I_{cs}$ ) at AC	230V	kA	100		
	400V	kA	100		
	440V	kA	100		
	500V	kA	100		
	690V	kA	100		
	Maximum short-circuit current breaking capacity ( $I_{cu}$ ) at AC	230V	kA	100	
400V		kA	100		
440V		kA	100		
500V		kA	100		
690V		kA	100		
IEC Utilization category					A
<b>Operations</b>					
Mechanical life			cycles	100000	
Electrical life			cycles	100000	
<b>Mechanical features</b>					
Tightening torque for terminals	min	Nm	2.5		
	max	Nm	3		
	min	lbin	22		
	max	lbin	26.5		
Conductor section	AWG/Kcmil	min	16		
		max	8		
	Flexible w/o lug conductor section	min	mm <sup>2</sup>	1	
		max	mm <sup>2</sup>	10	
	Flexible c/w lug conductor section	min	mm <sup>2</sup>	1	

		max	mm <sup>2</sup>	10
Flexible with insulated spade lug conductor section		min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	10
Screwdriver				PH2
Cable stripping length				
	main circuit	mm		12
<b>Ambient conditions</b>				
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		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	320
<b>UL technical data</b>				
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	50
		protection		Fuse or CB
Group Motor Installation				
		at 480V	kA	50
		at 600V	kA	50
		protection		Fuse or CB
Tap Conductor Protection				
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

Certifications

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-2

IEC/EN 60947-4-1

UL60947-4-1

Compliance

cULus

EAC

ETIM classification

ETIM 8.0

EC000074 -  
Motor protection  
circuit-breaker