



Product designation

Motor protection
circuit breaker
SM1RM

Product type designation

Electrical features

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 14
Magnetic tripping	13 x I_n
Power dissipation per pole	min W 1.13 max W 2.73

Operational short-circuit current breaking capacity (I_{cs}) at AC

230V	kA	100
400V	kA	100
440V	kA	42
500V	kA	42
690V	kA	2

Maximum short-circuit current breaking capacity (I_{cu}) at AC

230V	kA	100
400V	kA	100
440V	kA	42
500V	kA	42
690V	kA	4

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

Conductor section

AWG/Kcmil

min	16
max	8

Flexible w/o lug conductor section

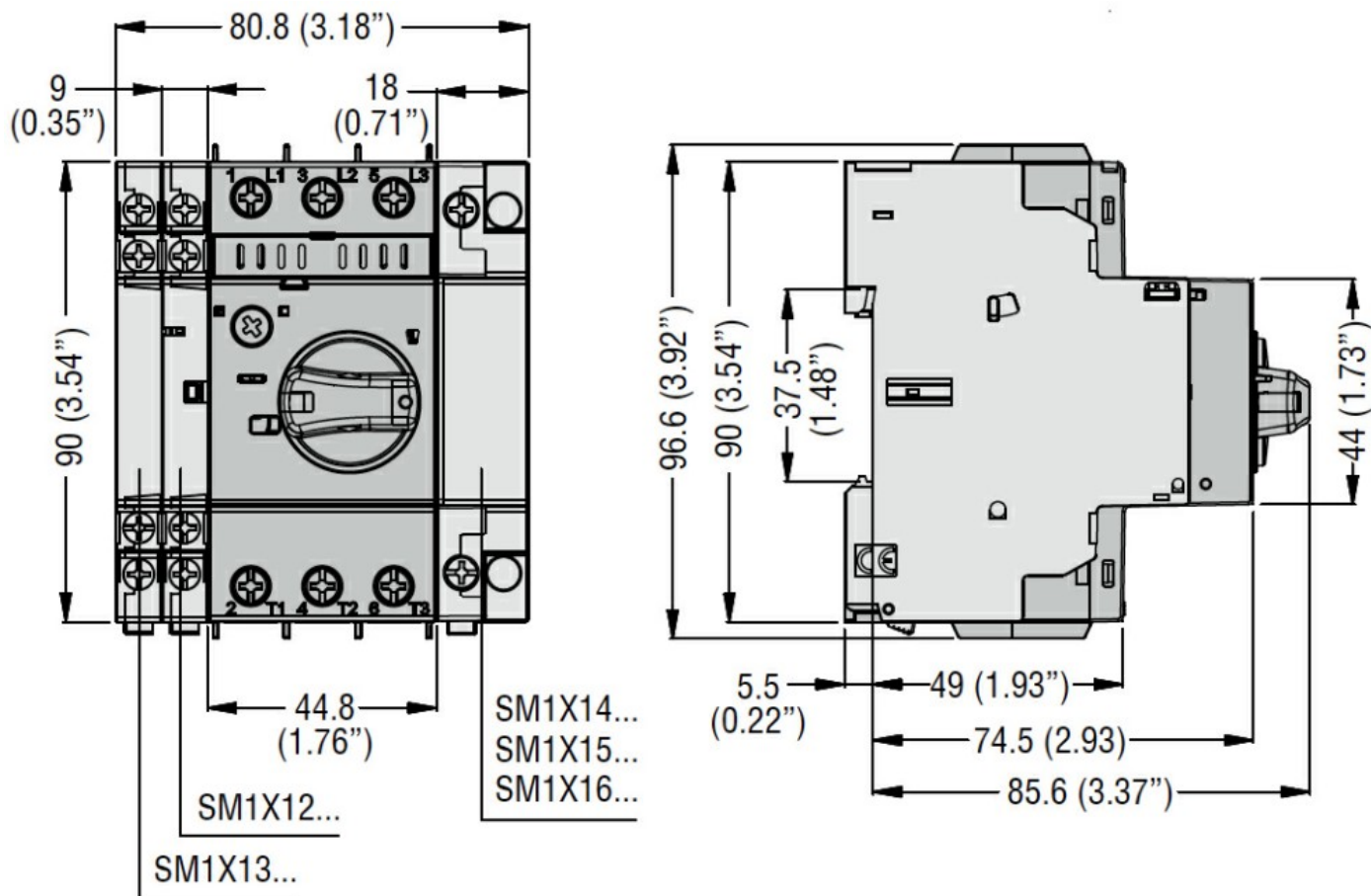
min	mm ²	1
max	mm ²	10

Flexible c/w lug conductor section

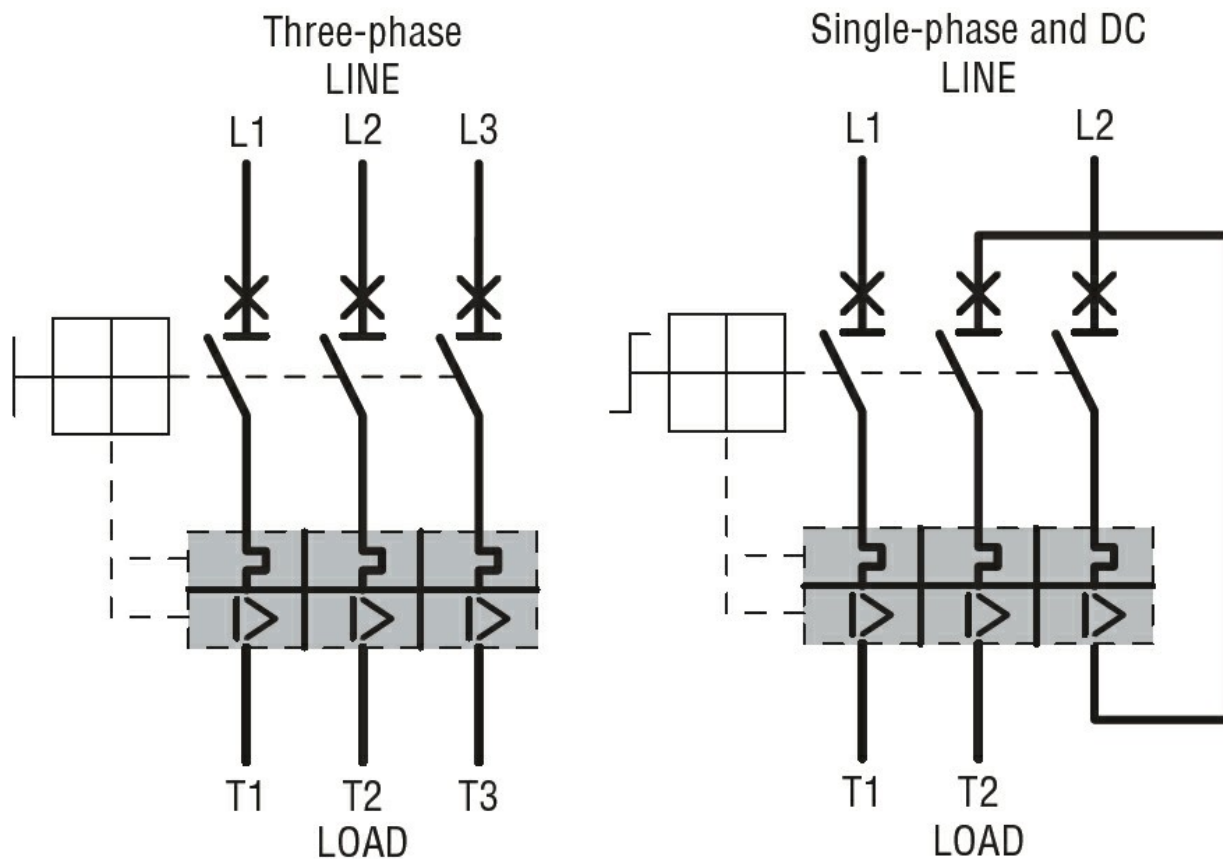
min	mm ²	1
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		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Cable stripping lenght				
		main circuit	mm	12
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		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				
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	390
UL technical data				
Motor Disconnect				
		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
Tap Conductor Protection				
		at 480Y/277V	kA	65
		at 600Y/347V	kA	30

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