SM2R6300

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 46...63A



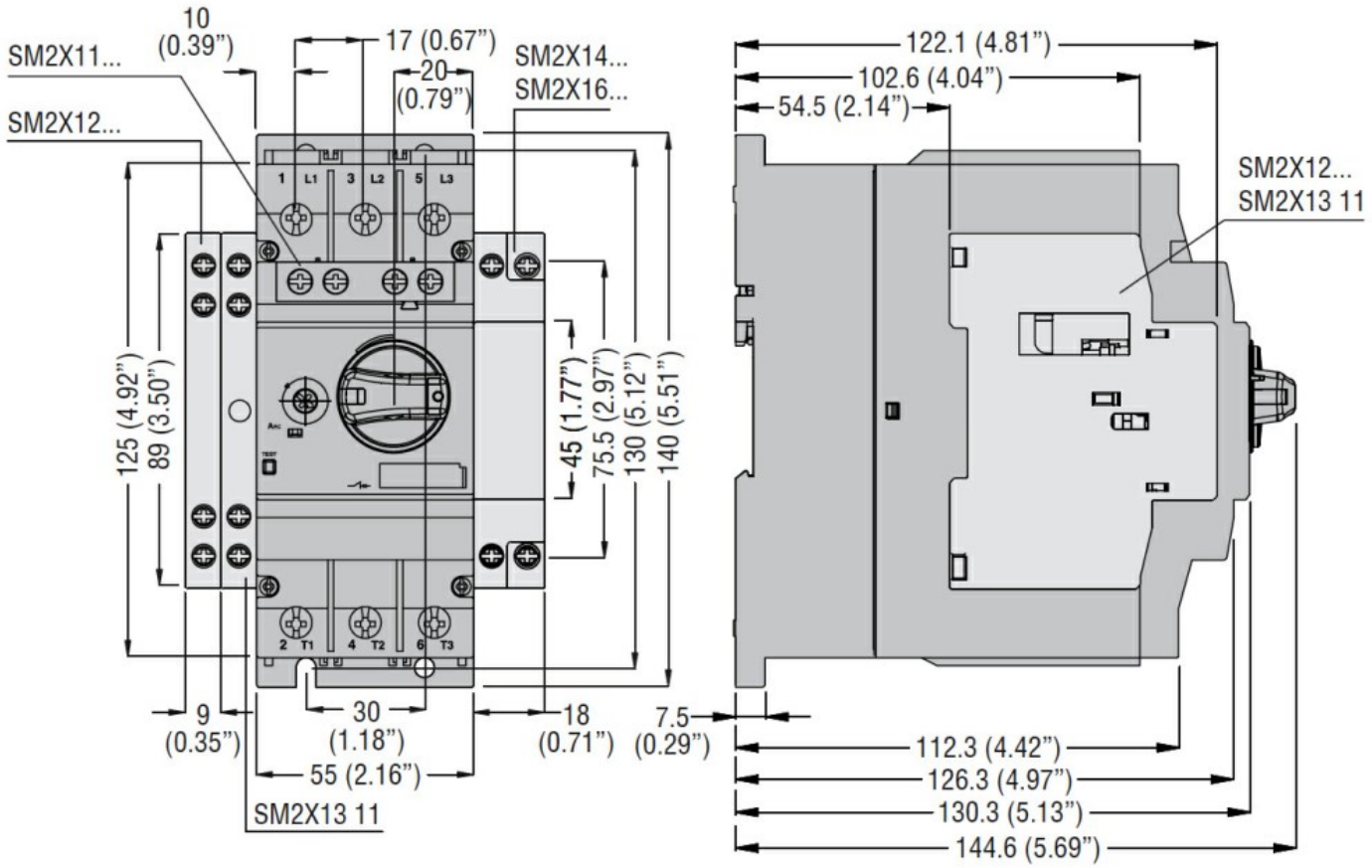
Product designation			Motor protection circuit breaker
Product type designation			SM2R
Electrical features			
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			45…63
Rated current (In)		A	63
Magnetic tripping			13 x In
Power dissipation per pole			
	max	W	7
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	27
	500V	kA	8
	690V	kA	5
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	35
	500V	kA	10
	690V	kA	5
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	50000
Electrical life		cycles	25000
Mechanical features			
Tightening torque for terminals			
	min	Nm	4.5
	max	Nm	4.5
	min	lbin	3.3
	max	lbin	3.3
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		18
	max		3
Flexible w/o lug conductor section			

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

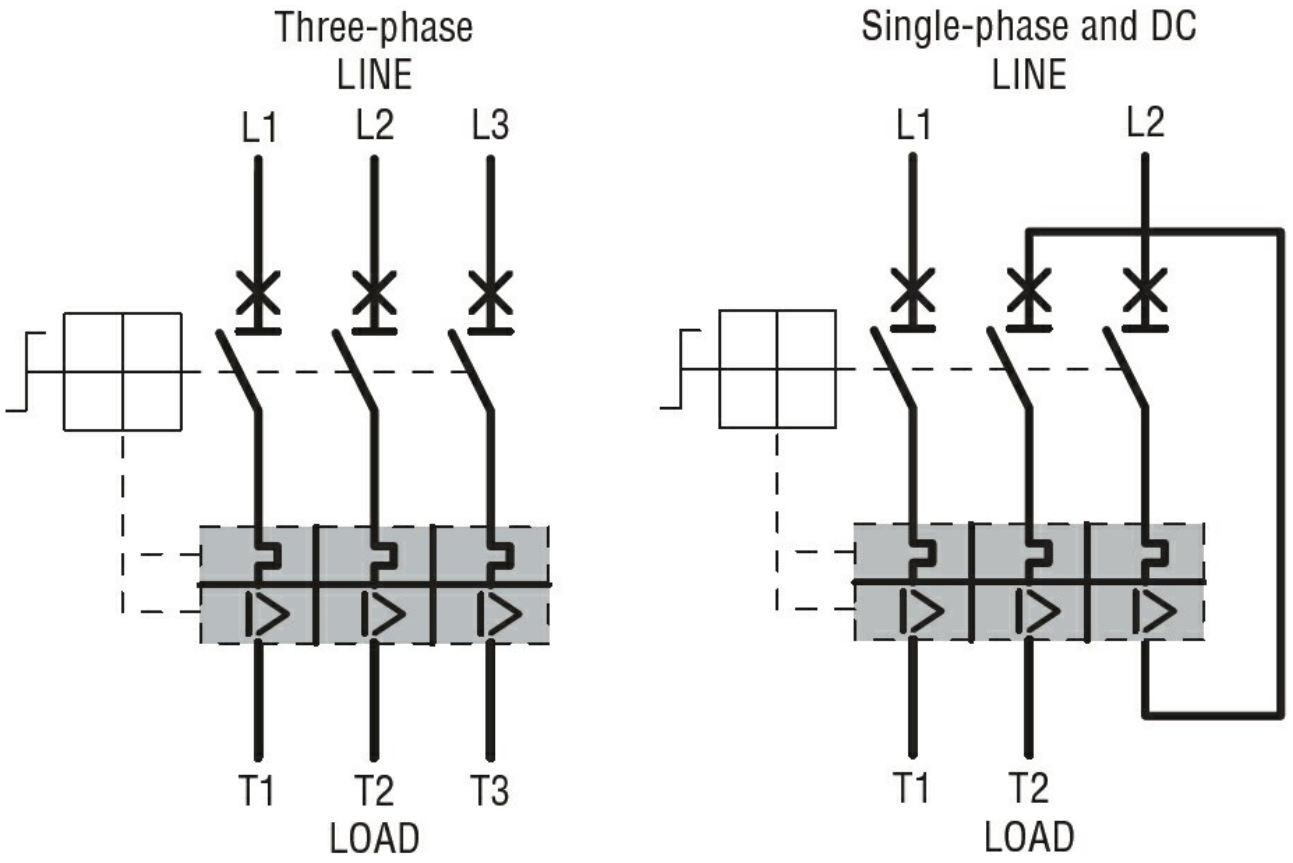
		min	mm²	0.75
		max	mm²	25
	Flexible c/w lug conductor section			
		min	mm²	0.75
		max	mm²	25
	Flexible with insulated spade lug conductor section			
		min	mm²	0.75
		max	mm²	25
Screwdriver				PZ2
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping lenght				
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+70
	Storage temperature			
		min	°C	-50
		max	°C	+80
	Compensation temperature			
		min	°C	-50
		max	°C	+40
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	1000
UL technical data				
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	10
		protection		Fuse or CB
Group Motor Installation				
		at 480V	kA	50
		at 600V	kA	10
		protection		Fuse or CB
Tap Conductor Protection				
		at 480Y/277V	kA	50
		at 600Y/347V	kA	10
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current				
		at 240V	kA	100
		at 480Y/277V	kA	50
Maximum UL/CSA horsepower ratings single-phase				
		110V-120V	HP	5
		220V-240V	HP	10
Maximum UL/CSA horsepower ratings three-phase, 3-pole				
		200V-208V	HP	20
		220V-240V	HP	20
		440V-480V	HP	40
		550V-600V	HP	60

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

Dimensions [mm (in)]



Wiring diagrams



The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding