



**SM3R**  
Motor protective  
circuit breaker

Product designation

Product type designation

**Electrical features**

Number of poles	nr.	3
Magnetic protection		Yes
Thermal protection		Yes
Phase failure detection		Yes
Rated insulation voltage $U_i$	V	1,000
Rated impulse withstand voltage $U_{imp}$	kV	6
Rated frequency	Hz	50/60
Thermal trip adjustment range		55...75
Rated current ( $I_n$ )	A	75
Magnetic tripping		13 x $I_n$

Operational short-circuit current breaking capacity ( $I_{cs}$ ) at AC	230V	kA	100
	400V	kA	38
	440V	kA	30
	500V	kA	6
	690V	kA	4

Maximum short-circuit current breaking capacity ( $I_{cu}$ ) at AC	230V	kA	100
	400V	kA	50
	440V	kA	40
	500V	kA	8
	690V	kA	5

**Operations**

Mechanical life	Cycles	50,000
Electrical life	Cycles	25,000

**Mechanical features**

Tightening torque for terminals	min	Nm	5
	max	Nm	5
	min	lbft	53
	max	lbft	53

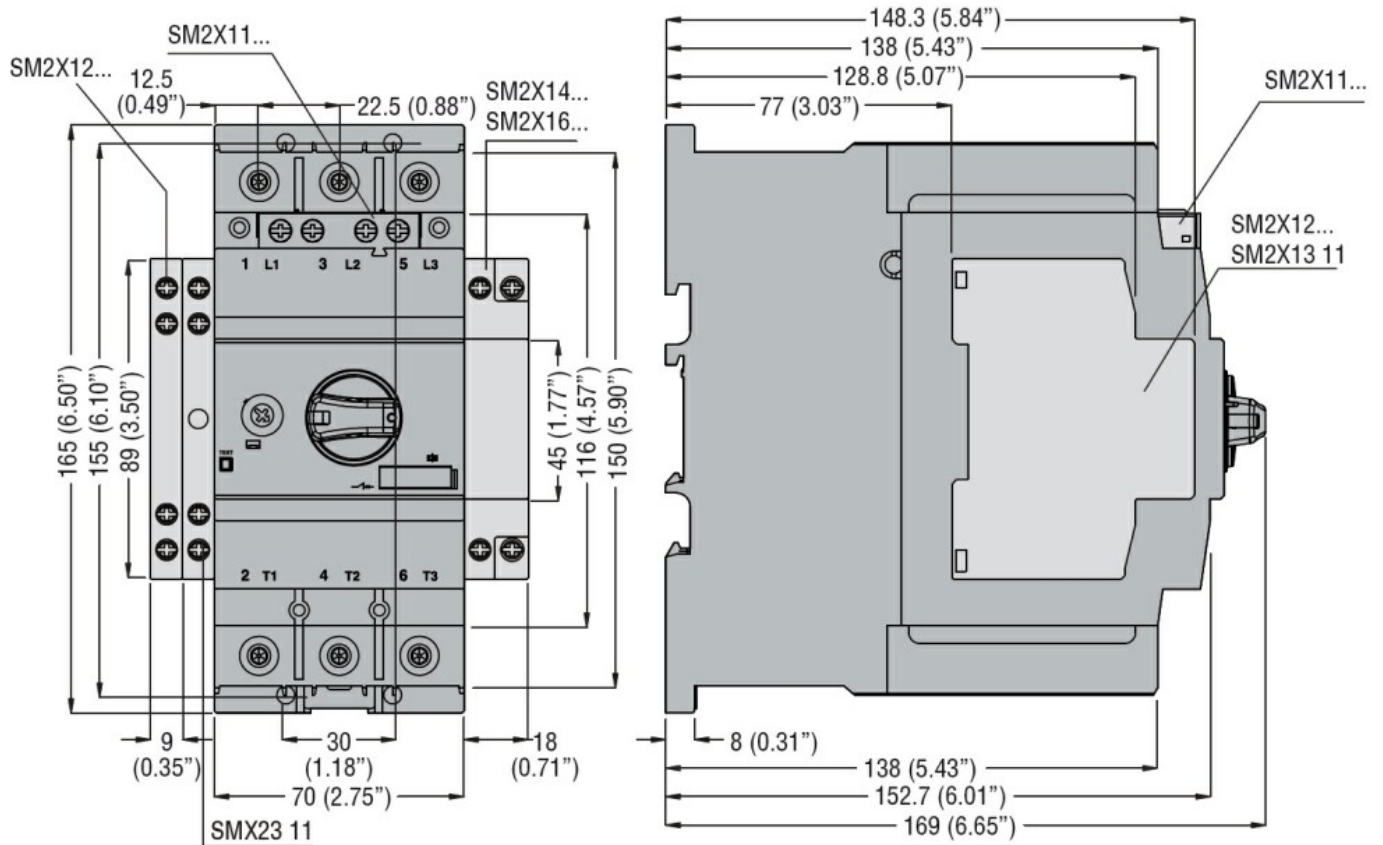
max number of wires simultaneously connectable	nr.	2
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Conductor section	AWG	min	18
		max	3

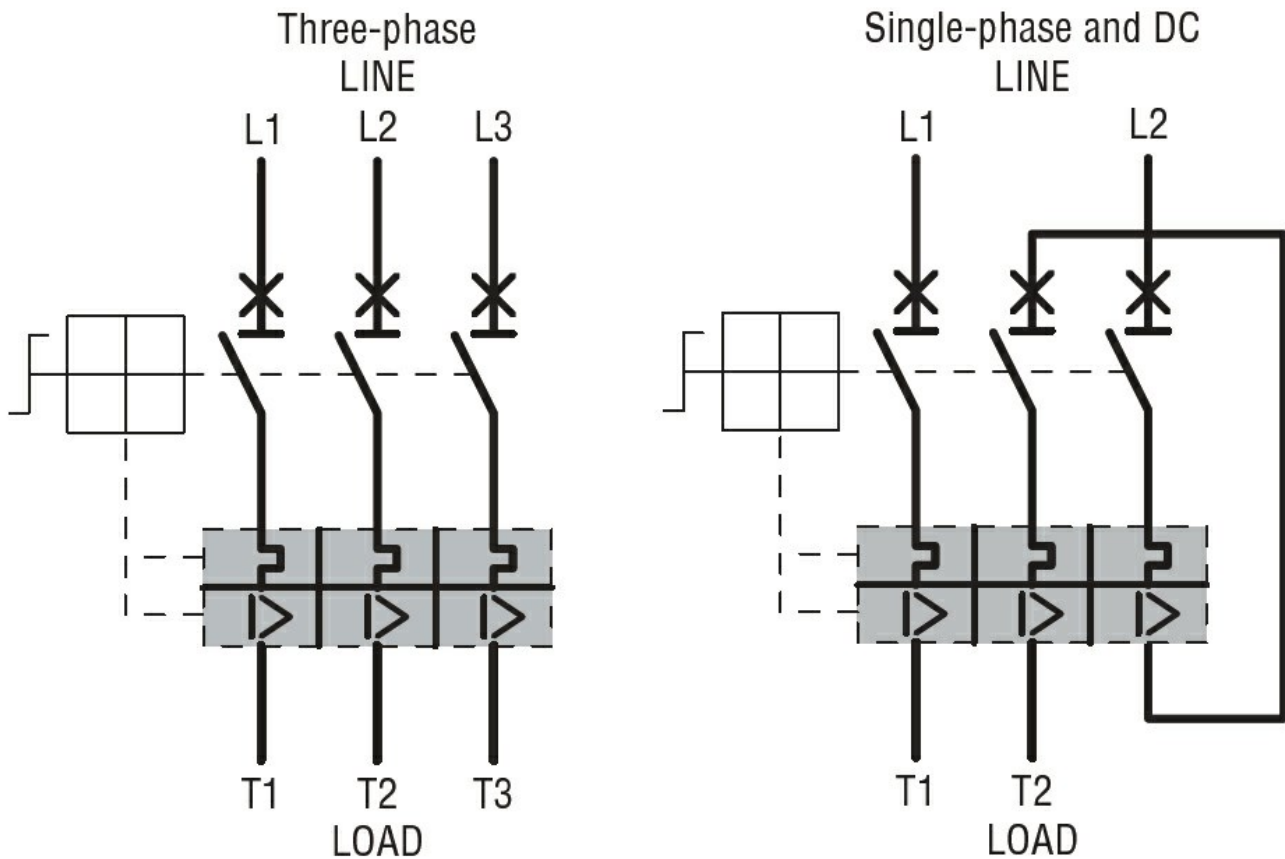
Flexible w/o lug conductor section	min	mm <sup>2</sup>	10
	max	mm <sup>2</sup>	50

Flexible c/w lug conductor section	min	mm <sup>2</sup>	10
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		max	mm <sup>2</sup>	50
Flexible with insulated spade lug conductor section		min	mm <sup>2</sup>	10
		max	mm <sup>2</sup>	50
Screwdriver				Allen 4mm
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping length				
	main circuit	mm		1
<b>Ambient conditions</b>				
Temperature				
Operating temperature				
		min	°C	-20
		max	°C	70
Storage temperature				
		min	°C	-50
		max	°C	80
Compensation temperature				
		min	°C	-5
		max	°C	40
Max altitude			m	3,000
Operating position				
	normal allowable			su piano verticale Qualsiasi
Mounting				A vite / profilato omega 35mm
Weight			g	2,200
<b>UL technical data</b>				
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current				
Motor Disconnect				
	at 480V	kA		40
	at 600V	kA		10
	protection			Fuse or CB
Group Motor Installation				
	at 480V	kA		40
	at 600V	kA		10
	protection			Fuse or CB
Tap Conductor Protection				
	at 480Y/277V	kA		40
	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		40
Maximum UL/CSA horsepower ratings single-phase				
	at 110V-120V	hp		1
	at 220V-240V	hp		2
Maximum UL/CSA horsepower ratings three-phase, 3-pole				
	at 200V-208V	hp		3
	at 220V-240V	hp		3
	at 440V-480V	hp		10
	at 550V-600V	hp		-
<b>Dimensions</b>				



**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 6 classification