



Product designation

SM1R

Product type designation

Motor protective
circuit breaker

Electrical features

Number of poles	nr.	3
Magnetic protection		Yes
Thermal protection		Yes
Phase failure detection		Yes
Rated insulation voltage U_i	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Rated frequency	Hz	50/60
Thermal trip adjustment range		20...25
Rated current (I_n)	A	25
Magnetic tripping		13 x I_n
Operational short-circuit current breaking capacity (I_{cs}) at AC		
	230V	kA 100
	400V	kA 25
	440V	kA 5
	500V	kA 5
	690V	kA 2

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

230V	kA	100
400V	kA	25
440V	kA	50
500V	kA	10
690V	kA	4

Operations

Mechanical life	Cycles	100,000
Electrical life	Cycles	100,000

Mechanical features

Tightening torque for terminals

min	Nm	3
max	Nm	3
min	lbft	2
max	lbft	2

max number of wires simultaneously connectable

nr. 2

Conductor section

AWG

min	16
max	8

Flexible w/o lug conductor section

min	mm ²	1
max	mm ²	10

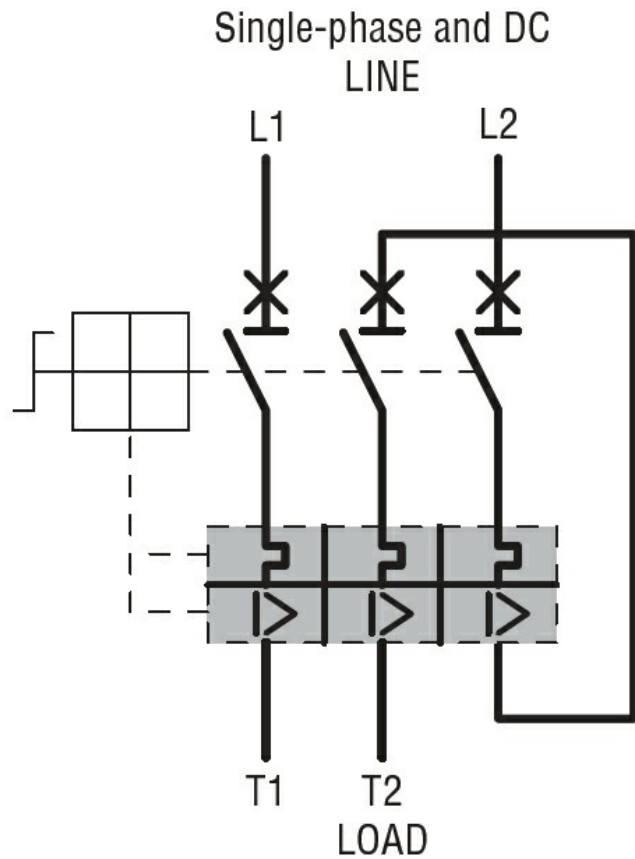
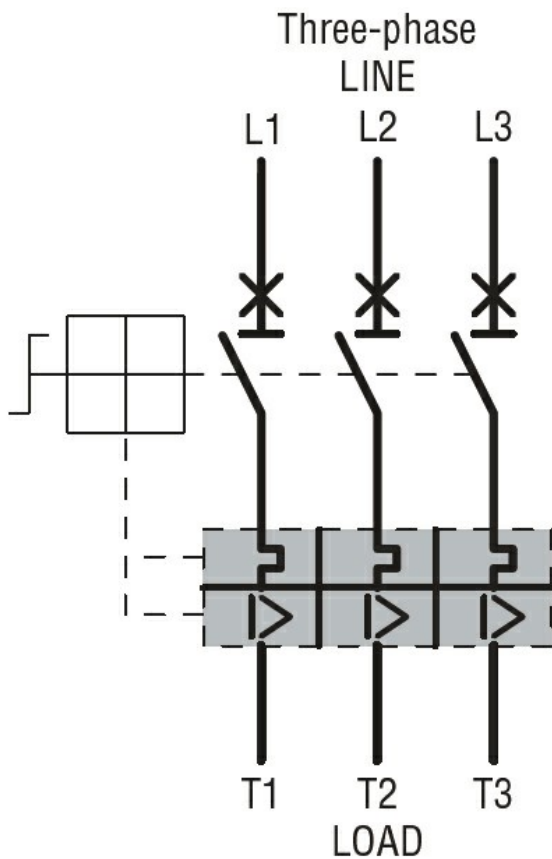
Flexible c/w lug conductor section

min	mm ²	1
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		max	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	1
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	3,000
Operating position		normal allowable		Su piano verticale Qualsiasi
Mounting				A vite / profilato omega 35mm
Weight			g	390
UL technical data				
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current				
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
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	-
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 6 classification