



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features			
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			2.54
Rated current (In)		Α	4
Magnetic tripping			13 x In
Power dissipation per pole			_
	min	W	0.90
	max	W	2.29
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
Tripping class			10A
IEC Utilization category			Α
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
Maria al conference de la consecutación de la	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			4.0
	min		16
	max		8



electric	MOTORSCHUTZSCHALTER DREHGRIFFBETÄTIGUNG 2,5 - 4 A SM1R
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	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor			
	Tiombie with iniculation opened rag contaction	min	mm²	1
		max	mm²	10
Screwdriver				PH2
	ion according to IEC/EN 60529			IP20 on front
Cable stripping lenght	ion according to 120/214 00020			11 20 011 110111
Cable stripping length		main circuit	mm	12
Ambient conditions		main circuit	111111	12
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	IIIax		+00
	Storage temperature	min	°C	-50
			°C	
	Composition to annount us	max	<u> </u>	+80
	Compensation temperature	!	۰.	00
		min	°C	-20
Man altituda		max	°C	+50
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail
				35mm
Weight			g	390
UL technical data				
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
		protection		Fuse or CB
Group Motor Installatio	n			
		at 480V	kA	30
		at 600V	kA	30
		protection		Fuse or CB
Tap Conductor Protect	ion			
		at 480Y/277V	kA	30
		at 600Y/347V	kA	30
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor (	Controller (Type E) Short o	ircuit cur	rent
		at 240V	kA	65
		at 480Y/277V	kA	65
		at 600Y/347V	kA	30
Maximum UL/CSA hors	sepower ratings single-phase			
		110V-120V	HP	1/8
		220V-240V	HP	1/3
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole			
		200V-208V	HP	3/4
		220V-240V	HP	3/4



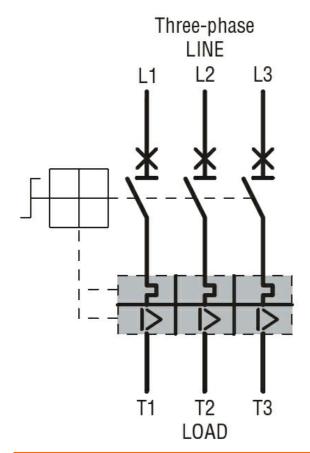
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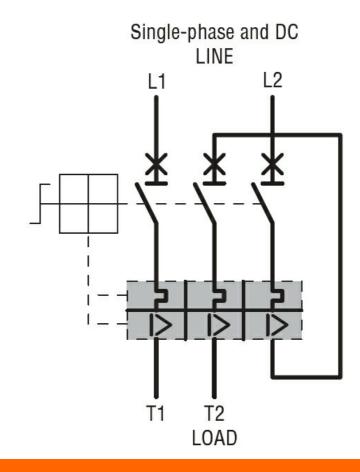
440V-480V HP 2 550V-600V HP 3

## **Dimensions** 80.8 (3.18") -9 (0.35")D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 <del>-</del> (0.22") - 44.8-(1.76") SM1X14... -74.5 (2.93)· SM1X15... SM1X16... -85.6 (3.37") SM1X12... SM1X13...

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 classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker