



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			0.631
Rated current (In)		Α	1
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.85
	max	W	2.14
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
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	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil	_		
	min		16
	max		8



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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 section		_	
		min	mm²	1
<u> </u>		max	mm²	10
Screwdriver				PH2
	ion according to IEC/EN 60529			IP20 on front
Cable stripping lenght				40
Ambient conditions		main circuit	mm	12
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	Пах		100
	Otorago temperaturo	min	°C	-50
		max	°C	+80
	Compensation temperature			
		min	°C	-20
		max	°C	+50
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	320
UL technical data				
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	50
		protection		Fuse or CB
Group Motor Installation	n			
		at 480V	kA	50
		at 600V	kA	50
Tan Canductor Protect	lan	protection		Fuse or CB
Tap Conductor Protect		ot 400V/277V	IzΛ	E0
		at 480Y/277V at 600Y/347V	kA kA	50 50
III 508 / III 60047-4-1	Manual Self Protected Combination Motor Controller (
0L000 / 0L 00347-4-1	Marida Seli i Tolecled Combination Motor Controller (at 240V	kA	65
		at 480Y/277V	kA	65
		at 600Y/347V	kA	50
Maximum UL/CSA horsepower ratings single-phase				
		110V-120V	HP	-
		220V-240V	HP	-
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole			
		200V-208V	HP	-
		220V-240V	HP	-



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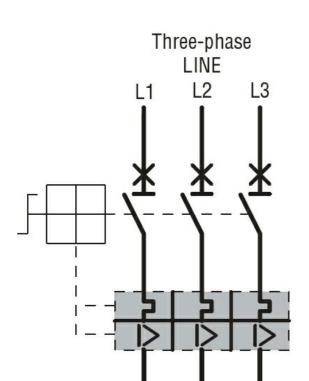
440V-480V HP 1/2 550V-600V HP 1/2

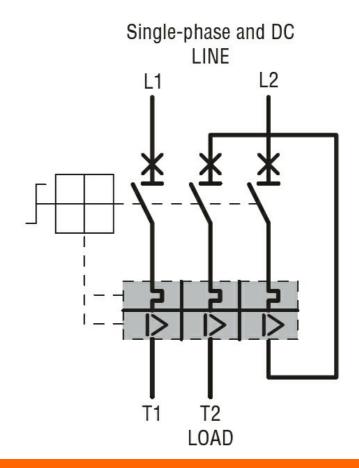
Dimensions 80.8 (3.18") -9 (0.35")D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93")-5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... -85.6 (3.37") SM1X16... SM1X12...

Wiring diagrams

SM1X13...







Certifications and compliance

T1

Certifications

CSA C22.2 n° 14

LOAD

T3

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