



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			46.5
Rated current (In)		Α	6.5
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.75
	max	W	1.99
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	4
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			
	n	nin	mm²	1
		ax	mm²	10
	Flexible c/w lug conductor section		_	
		nin	mm²	1
		ax	mm²	10
	Flexible with insulated spade lug conductor section		2	4
		nin	mm²	1
Caracodricar		ax	mm²	10
Screwdriver	tion according to IEC/EN COECO			PH2
	tion according to IEC/EN 60529			IP20 on front
Cable stripping lenght	main aire	:4	mm	10
Ambient conditions	main circ	uit	mm	12
Temperature				
remperature	Operating temperature			
	Operating temperature	nin	°C	-20
		ax	°C	+60
	Storage temperature	un		100
		nin	°C	-50
		ax	°C	+80
	Compensation temperature			
	·	nin	°C	-20
	m	ax	°C	+50
Max altitude			m	3000
Operating position				
	norn	nal		Vertical plan
	allowal	ole		Any
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	390
UL technical data				
Motor Disconnect				
	at 48		kA	30
	at 60		kA	30
	protecti	on		Fuse or CB
Group Motor Installatio		a		
	at 48		kA	30
	at 60		kA	30
-	protecti	on		Fuse or CB
Tap Conductor Protect		7 \	1.4	20
	at 480Y/27 at 600Y/34		kΑ	30
			kA	30
ULDU8 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Sh			
	at 24 at 480Y/27		kA kA	65 65
	at 4001/27 at 600Y/34		kA kA	30
Maximum III /CSA bor	sepower ratings single-phase	, v	<u></u>	30
WAXIIIUIII OL/COA HUI	sepower raungs single-priase 110V-12	0 \/	HP	1/4
	220V-24		HP	1/2
Maximum UI /CSA hor	sepower ratings three-phase, 3-pole	_ v	- "	1/
a.A.III.a.III OL/OO/(1101	200V-20	8V	HP	1.5
	220V-24		HP	1.5



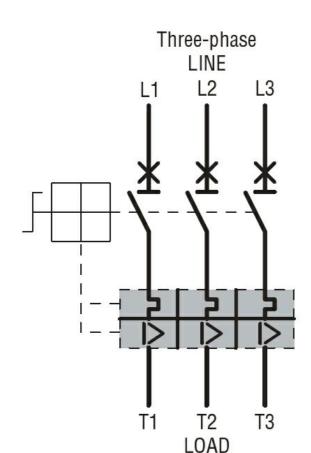
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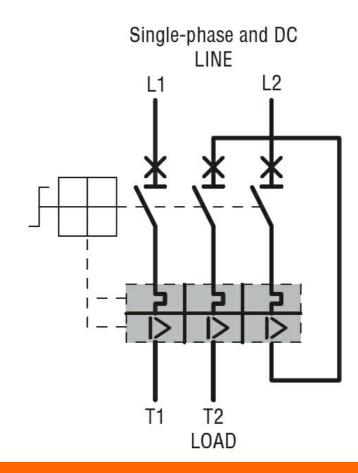
440V-480V HP 3 550V-600V HP 5

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... 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