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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			А
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	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8

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electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT

400V, 0.63...1A

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	Flexible w/o lug conductor section			4
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section		2	
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
	tion according to IEC/EN 60529			IP20 on front
Cable stripping lenght				
		main circuit	mm	12
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	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	320
UL technical data			Ŭ	
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
		protection		Fuse or CB
Tap Conductor Protec	tion	1		
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
111 508 / 111 60947-4-1	Manual Self Protected Combination Motor Controller			
		at 240V	kA	65
		at 480Y/277V	kA	65
		at 600Y/347V	kA	50
Maximum III /CSA box	rsepower ratings single-phase	at 0001/347 V	<u>к</u> л1	50
Maximum UL/CSA 1101	าวอย่างพอกาสแก่เมือ อการีเอายาเสออ	1101/ 1001/	ПП	
		110V-120V	HP up	-
Movimum III /004	roopower retinge three shape 2 sets	220V-240V	HP	-
waximum UL/USA hoi	rsepower ratings three-phase, 3-pole			
		200V-208V	HP	-
		220V-240V	HP	-

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MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.63...1A

440V-480V HP 1/2 550V-600V ΗP 1/2 Dimensions 80.8 (3.18")-9 18 (0.35" (0.71)00 -P 96.6 (3.92") 90 (3.54") E 90 (3.54") -44 (1.73" -37.5 0 0 49 (1.93") 5.5 (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... - 85.6 (3.37") SM1X12... SM1X13...

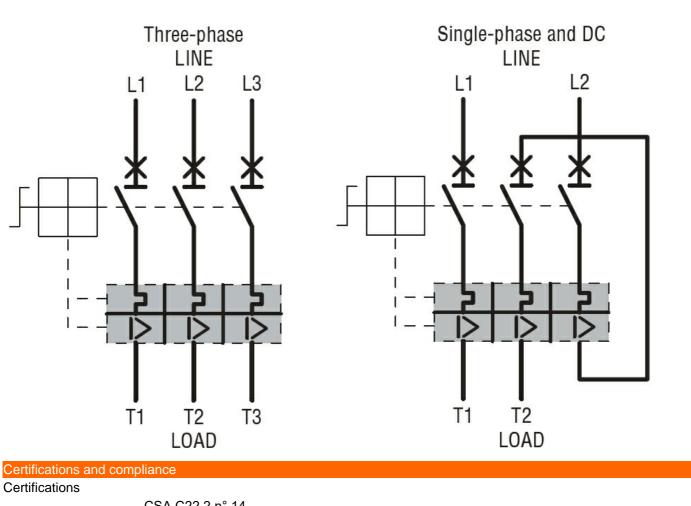
Wiring diagrams

## SM1R0100



MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.63...1A

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	CSA C22.2 n° 14	
	IEC/EN 60947-1	
	IEC/EN 60947-2	
	IEC/EN 60947-4-1	
	UL508	
Compliance		
	cULus	
	EAC	
ETIM classification		
		EC000074 -
		M. (

**ETIM 8.0** 

Motor protection circuit-breaker