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Product designation			Motor protection circuit breaker
Product type designation Electrical features			SM1R
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			6.310
Rated current (In)		Α	10
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.03
	max	W	2.61
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	42
	500V	kA	42
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	42
	690V	kA	4
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	lbin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			4.0
	min		16
	max		8



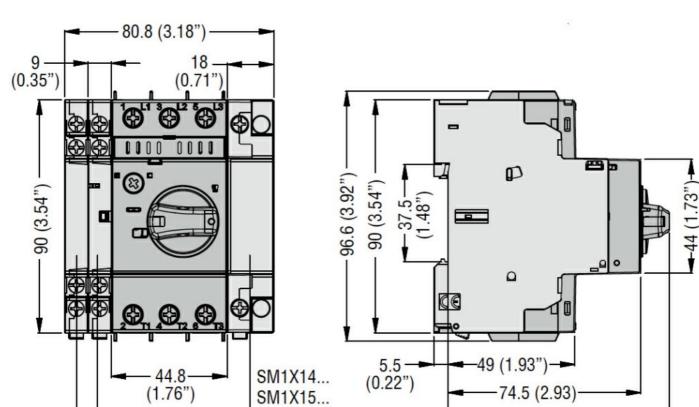
MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,

SM1R1000 6.3...10A

	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section	<u>.</u>	-	
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
<b>.</b>		max	mm²	10
Screwdriver				PH2
-	ction according to IEC/EN 60529			IP20 on front
Cable stripping lenght	t			
		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 rai 35mm
Weight				390
UL technical data			g	390
Motor Disconnect				
		at 480V	kA	30
		at 460V at 600V	кА kA	30
			ĸΑ	30 100A class J
Group Motor Installati	on	protection		TUUA CIASS J
Sroup wotor installati		ot 490\/	L۸	20
		at 480V	kA kA	30
		at 600V	kA	30 1004 close l
	reanauer ratinge eingle abaas	protection		100A class J
viaximum UL/USA ho	rsepower ratings single-phase	4401/4001/		4/0
		110V-120V	HP	1/2
		220V-240V	HP	1.5
Maximum UL/CSA ho	rsepower ratings three-phase, 3-pole			
		200V-208V	HP	2
		220V-240V	HP	3
		440V-480V	HP	5
		550V-600V	HP	7.5

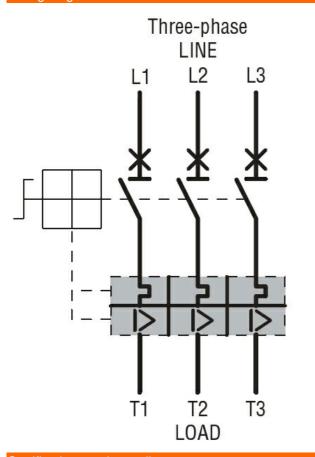


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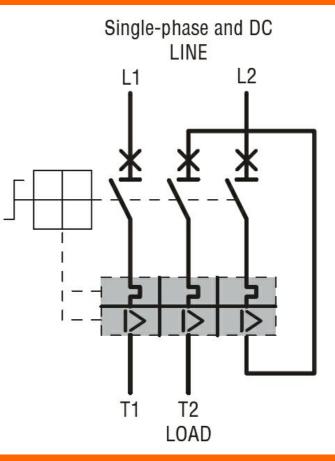
SM1X16...

Wiring diagrams



SM1X12...

SM1X13...



- 85.6 (3.37")

Certifications and compliance

SM1R1000

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

SM1R1000



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## 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		
		EC000074 -

ETIM 8.0

EC000074 -Motor protection circuit-breaker