



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features		NI.	<u>^</u>
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			2025
Rated current (In)		Α	25
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	1.81
	max	W	2.83
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	25
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	10
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features		0)0.00	
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable	Пал	Nr.	20.0
Conductor section		141.	۲
AWG/Kcmil			
	min		16
			8
	max		0



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MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 20...25A

	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
	, and the second s	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal protect	tion according to IEC/EN 60529			IP20 on front
Cable stripping lenght	<u> </u>			
		main circuit	mm	12
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature			
	2	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
Fiving				Screw / DIN rail
Fixing				35mm
Weight			g	390
UL technical data				
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Group Motor Installatio	n			
		at 480V	kA	30

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Dimensions

Maximum UL/CSA horsepower ratings single-phase

Maximum UL/CSA horsepower ratings three-phase, 3-pole

kA

HP

ΗP

HP

HP

ΗP

ΗP

30

2

3

5

7.5

15

20

200A class J

at 600V

protection

110V-120V

220V-240V

200V-208V

220V-240V

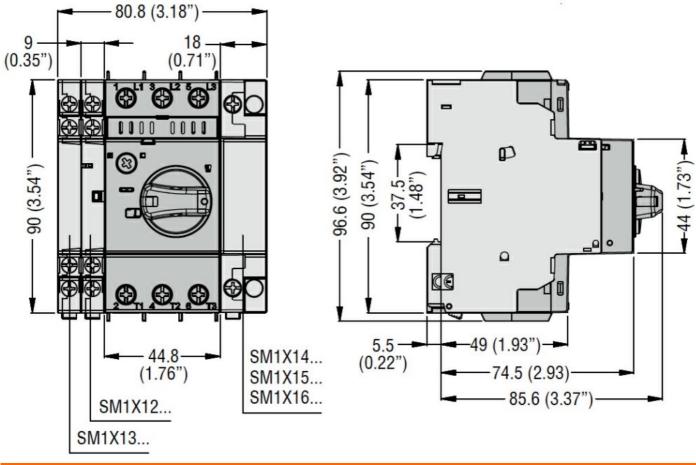
440V-480V

550V-600V

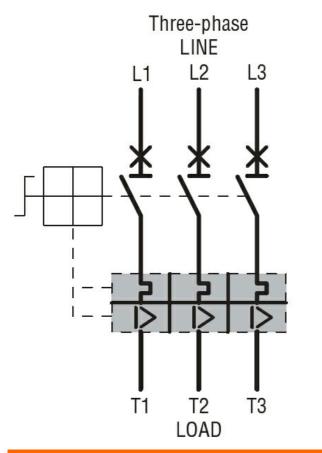
SM1R2500

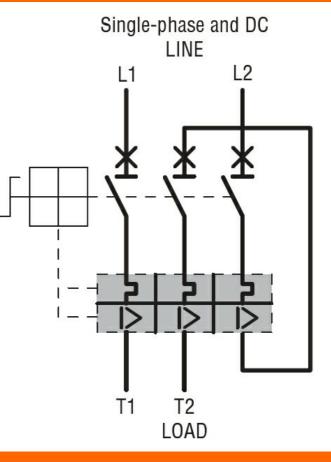


SM1R2500 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 20...25A



Wiring diagrams





Certifications and compliance

SM1R2500

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



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