

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



Product designation				Motor protective
Product type designat	ion			circuit breaker SM1R
Electrical features				SWITK
Number of poles			nr.	3
Magnetic protection			111.	
Thermal protection				yes
Phase failure detection	~			yes
			V	yes 690
Rated insulation voltage	-		kV	
Rated impulse withsta	nd voltage oimp			6
Rated frequency			Hz	50/60
Thermal trip adjustment	nt range		•	2025
Rated current (In)			A	25
Magnetic tripping				13 x In
Total power dissipation			W	2.83
Operational short-circu	uit 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	25
		440V	kA	50
		500V	kA	10
		690V	kA	4
Tripping class				10A
IEC Utilization categor	ŷ			А
Operations				
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features				
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Max number of wires	simultaneously connectable		nr.	2
Conductor section	· · ·			
	AWG/Kcmil			
		min		16
		max		8
	Flexible w/o lug conductor section			
	5	min	mm²	1
			-	



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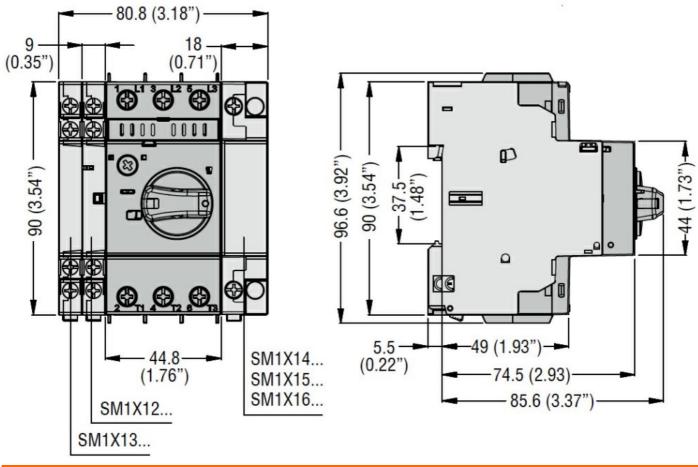
SM1R2500

20...25A

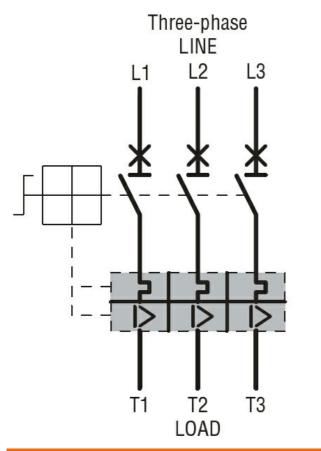
	Flexible c/w lug conductor section			
		min	mm²	1
	Flexible with insulated spade lug conductor section	_	_	
		min	mm²	1
Screwdriver				PH2
	otection according to IEC/EN 60529			IP20
Cable stripping le	nght			
		main circuit	mm	1
Ambient condition	IS			
Temperature				
	Operating temperature			
		min	°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	)			0000
oporating poolitor	•	normal		Vertical plan
		allowable		Any
		allowable		Screw / DIN rail
Fixing				35mm
Weight			0	390
UL technical data			g	000
Motor Disconnect				
		at 400\/	1. 4	20
		at 480V	kA	30
		at 600V	kA	30 2004 alass I
One Materia	U + C + +	protection		200A class J
Group Motor Insta	MILATION			
		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Maximum UL/CSA	A horsepower ratings single-phase			
		110V-120V	HP	2
		220V-240V	HP	3
Maximum UL/CSA	A horsepower ratings three-phase, 3-pole			
		200V-208V	HP	5
		220V-240V	HP	7.5
		440V-480V	HP	15
		550V-600V	HP	20
Dimensions				

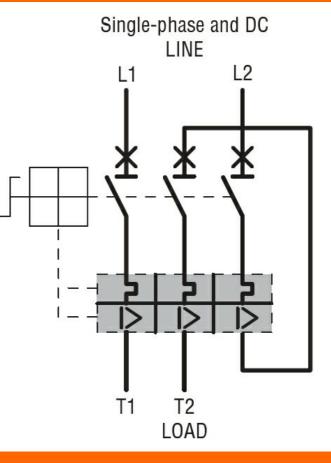


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Wiring diagrams





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