



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

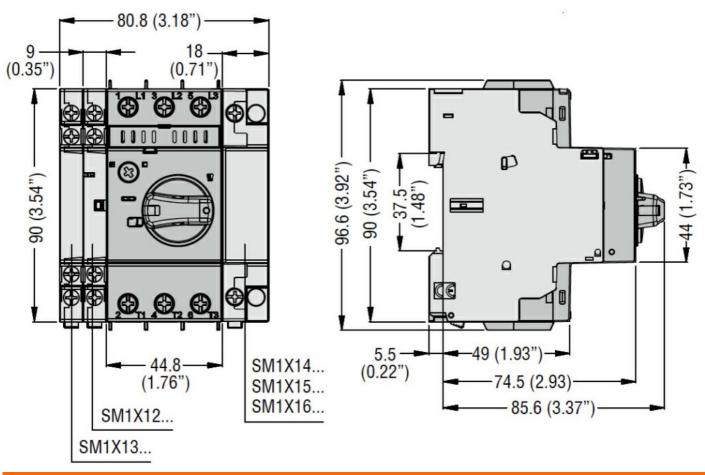


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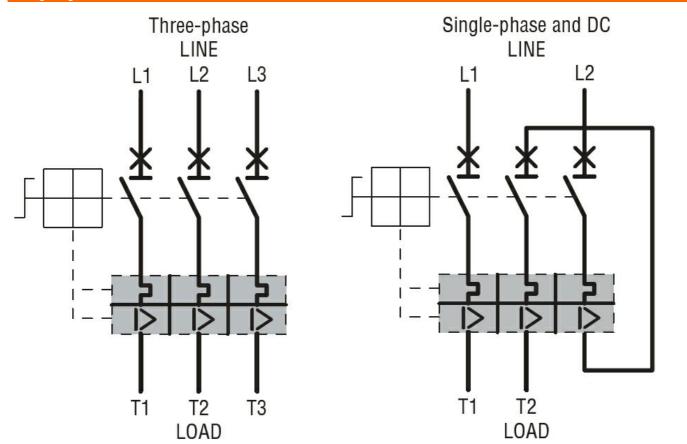
	Flexible w/o lug conductor section			
		min	mm²	1
	-	max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal protect	ion according to IEC/EN 60529			IP20 on front
Cable 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				
operating position		normal		Vertical plan
		allowable		Any
		anowabic		Screw / DIN rail
Fixing				35mm
Weight			g	390
UL technical data			9	
Motor Disconnect				
Wotor Dioconnect		at 480V	kA	30
		at 600V	kA	30
		protection	IV-1	200A class J
Group Motor Installatio	n	protection		200A 01833 0
Group Wotor Installatio	!!	at 480V	kA	30
		at 400V	kA kA	30
			KA	
Maximum III /CCA harr		protection		200A class J
IVIAXIITIUITI UL/USA NOR	sepower ratings single-phase	4401/4001/	l ID	0
		110V-120V	HP	2
		220V-240V	HP	3
Maximum UL/CSA hors	sepower 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





SM1R2500

MOTORSCHUTZSCHALTER DREHGRIFFBETÄTIGUNG 20 - 25 A SM1R

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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

ETIM 8.0

EC000074 -Motor protection circuit-breaker