



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			3040
Rated current (In)		Α	40
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	3.44
	max	W	6.12
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	10
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	20
	440V	kA	10
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			А
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features		ý	
Tightening torque for terminals			
5 5 1	min	Nm	2.5
	max	Nm	3
	min	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
,	min		16
	max		8
	max		~



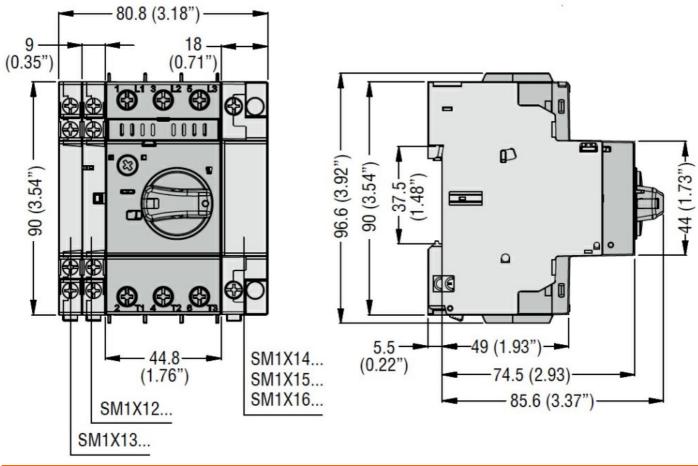
SM1R4000 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 20KA AT 400V, 30...40A

Flexible w/o lug conductor section min mm² 1 max mm² 10 Flexible c/w lug conductor section min mm² 1 max mm² 10 1 Flexible c/w lug conductor section min mm² 1 max mm² 1 1 max mm² 1 1 max mm² 1 1 max mm² 1 1 Screwdriver PH2 Prever terminal protection according to IEC/EN 60529 IP20 Cable stripping lenght main circuit mm 12 Ambient conditions max "C -20 Temperature min "C -20 max "C +60 -20 Storage temperature min "C -20 max "C +60 -20 Group float max "C +60 Operating position mormal Screw / DN rail -50					
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550V-600V HP 30					
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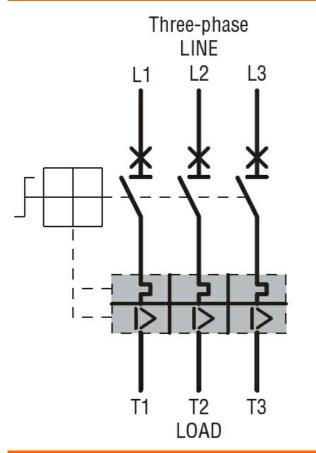
Dimensions

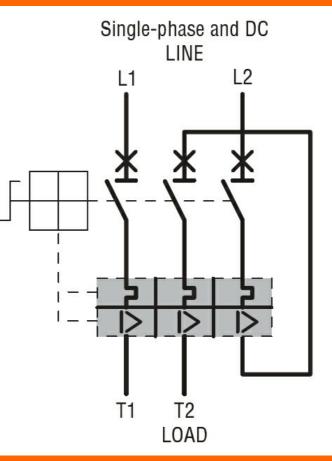


SM1R4000 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 20KA AT 400V, 30...40A



Wiring diagrams





Certifications and compliance

SM1R4000

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		
		FC000074 -

ETIM 8.0

EC000074 -Motor protection circuit-breaker

SM1R4000