



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			3040
Rated current (In)		A	40
Magnetic tripping			13 x ln
Total power dissipation		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	10
	440V	kA	20
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features		ý	
Tightening torque for terminals			
	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			-
	min	mm²	1

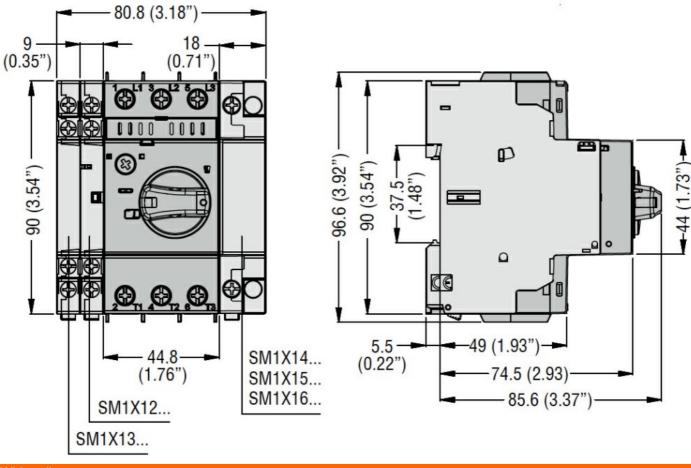


	Flexible c/w lug conductor section			
		min	mm²	1
	Flexible with insulated spade lug conductor section			
		min	mm²	1
Screwdriver				PH2
Power terminal prote	ection according to IEC/EN 60529			IP20
Cable stripping leng	ht			
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		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
				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 Installa	ition	-		
·		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Maximum UL/CSA h	norsepower ratings single-phase	·		
		110V-120V	HP	3
		220V-240V	HP	7.5
Maximum UL/CSA h	norsepower ratings three-phase, 3-pole			
		200V-208V	HP	10
		220V-240V	HP	10
		440V-480V	HP	30
		550V-600V	HP	30
Dimensions				

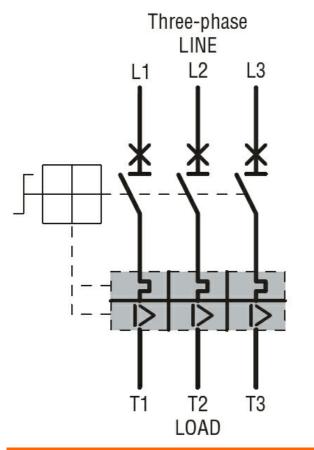
Dimensions

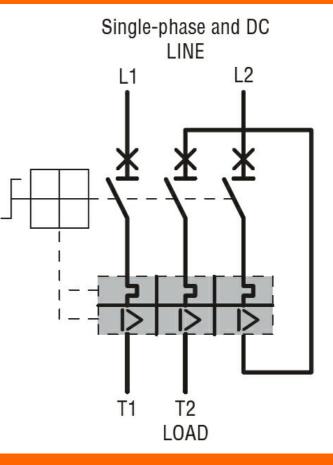
SM1R4000





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		
		EC000074 -

ETIM 8.0

EC000074 -Motor protection circuit-breaker