



Product designation			Motor protection circuit breaker
Product type designation Electrical features			SM1R
Number of poles		Nr.	3
Magnetic protection		1 111	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		<u>-</u>	2025
Rated current (In)		Α	25
Magnetic tripping		- , ,	13 x ln
Total power dissipation		W	2.83
Operational short-circuit current breaking capacity (Ics) at AC		• • • • • • • • • • • • • • • • • • • •	2.00
operational errors errors broading supports (100) at 710	230V	kA	100
	400V	kA	25
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
maximum cricin circum camering capacity (real) arms	230V	kA	100
	400V	kA	25
	440V	kA	50
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features		.,	
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

PH2

tection according to IEC/EN 60529

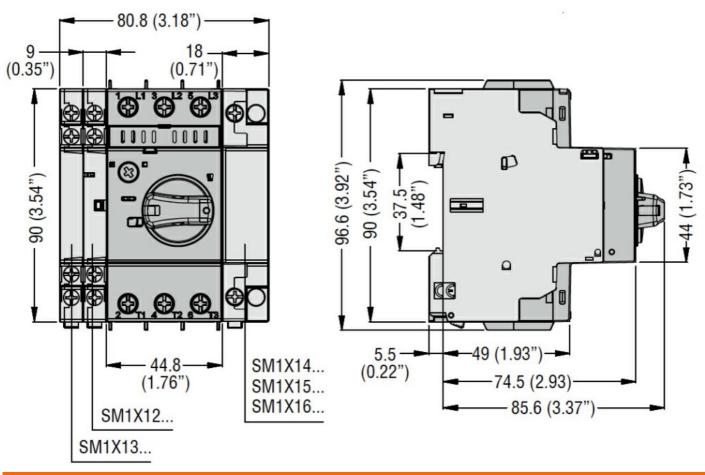
IP20

		mın	mm⁴	<u> </u>
Screwdriver				PH2
Power terminal prote	ction according to IEC/EN 60529			IP20
Cable stripping lengh	nt			
		main circuit	mm	1
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature			
	ŭ i	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
		anomasio		Screw / DIN rail
Fixing				35mm
Weight			g	390
UL technical data			9	
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
		protection	10 (200A class J
Group Motor Installat	ion	p.otootio		
C. Capctor motaliat		at 480V	kA	30
		at 600V	kA	30
		protection	IV-1	200A class J
Maximum III /CSA be	prsepower ratings single-phase	protection		2007 (01000 0
Waximum OL/OOA III	orocpowor raungo singio-priase	110V-120V	HP	2
		220V-240V	HP	3
Maximum III /CSA ha	orsepower ratings three-phase, 3-pole	220V-240V	1115	J
IVIAXIIIIUIII UL/USA N	orsepower rauriys urree-priase, s-poie	2001/ 2001/	HP	5
		200V-208V 220V-240V		5
		220V-240V 440V-480V	HP	7.5
			HP ⊔D	15 20
Dimonoione		550V-600V	HP	4 0
Dimensions				

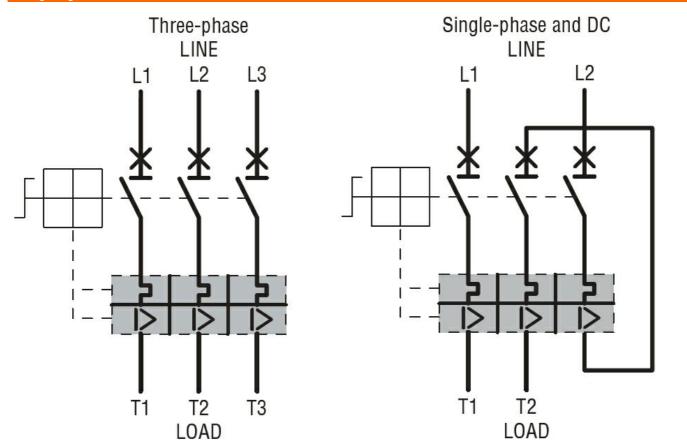
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ENERGY AND AUTOMATION



Wiring diagrams







Motor protection circuit breaker, IEC breaking capacity Icu 50kA at 400V, 20...25A

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