

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 13...18A



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			1318
Rated current (In)		Α	18
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.34
	max	W	2.57
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	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



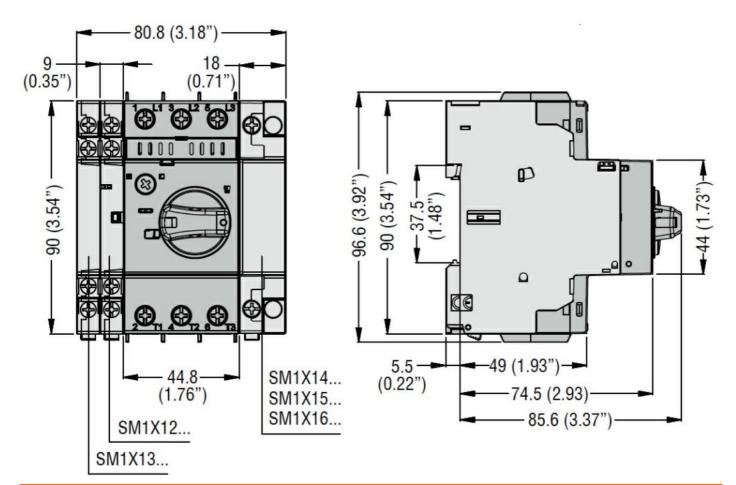


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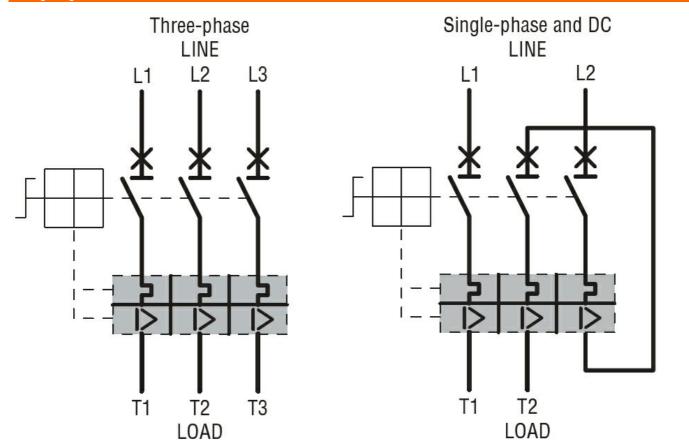
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
	, -	min	mm²	1
		max	mm²	10
Screwdriver				PH2
	ction according to IEC/EN 60529			IP20 on front
Cable stripping lengh				11 20 011 110110
Cable stripping length		main circuit	mm	12
Ambient conditions		main circuit	111111	12
Temperature	Operating temperature			
	Operating temperature		°C	20
		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
Fixing				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 Installat	ion	·		
		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Maximum III /C.SA ho	prsepower ratings single-phase	F : 0.000001		
	s. sapana. Idaniga anigia pilado	110V-120V	HP	1
		220V-240V	HP	3
Maximum III /CCA ha	prespower ratings three phase 2 pale	220 V -240 V	I IF	<u> </u>
IVIAXIIIIUIII UL/CSA NO	orsepower ratings three-phase, 3-pole	2001/ 2001/	LID	F
		200V-208V	HP	5
		220V-240V	HP	5
		440V-480V	HP	10
		550V-600V	HP	15
Dimensions				



ENERGY AND AUTOMATION



Wiring diagrams



Certifications and compliance



ENERGY AND AUTOMATION

SM1R1800

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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