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



Product designation			Motor protective circuit breaker
Product type designation Electrical features			SM1R
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 In
Total power dissipation		W	2.57
Operational short-circuit current breaking capacity (Ics) at AC		•••	2.01
operational effect emount entertaining capacity (166) at 716	230V	kA	100
	400V	kA	100
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	230V	kA	100
	400V	kA	100
	440V	kA	100
	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	Ibin	1.8
	max	Ibin	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



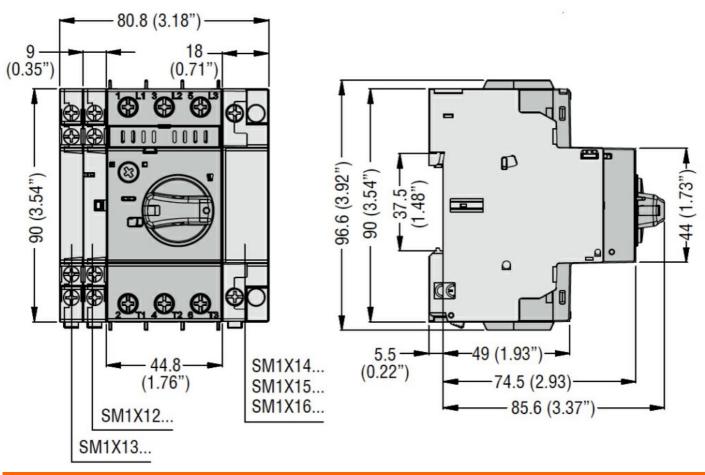


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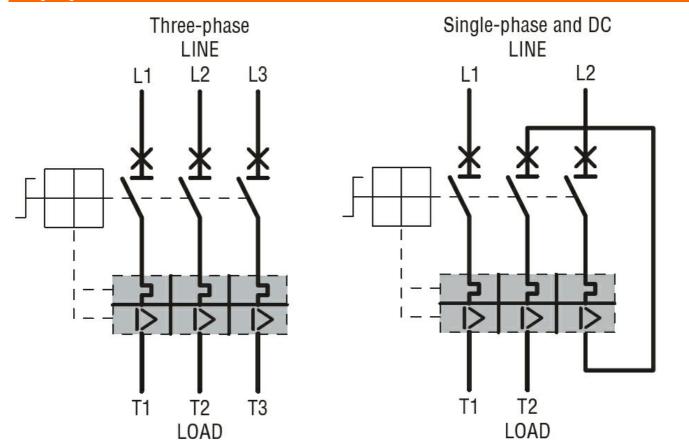
	Flexible c/w lug conductor section			
		min	mm²	1
	Flexible with insulated spade lug conductor section			
	, c	min	mm²	1
Screwdriver				PH2
	ion according to IEC/EN 60529			IP20
Cable stripping lenght				
Cable callphing longin		main circuit	mm	1
Ambient conditions		main onout		'
Temperature				
remperature	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
Fining				Screw / DIN rail
Fixing				35mm
Weight			g	390
UL technical data				
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
		protection	10 (200A class J
Group Motor Installatio	n	protoction		20071 01400 0
Group Motor mistaliatio	11	at 480V	L۸	30
			kA	
		at 600V	kA	30
M :		protection		200A class J
iviaximum UL/CSA hors	sepower ratings single-phase			
		110V-120V	HP	1
		220V-240V	HP	3
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole			
		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