



Product designation			Motor protection circuit breaker
Product type designation Electrical features			SM1R
Number of poles		Nr.	3
Magnetic protection		141.	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		1 12	1723
Rated current (In)		Α	23
Magnetic tripping			13 x ln
Power dissipation per pole			13 X III
rowel dissipation per pole	min	W	1.86
	max	W	3.41
Operational short-circuit current breaking capacity (Ics) at AC	IIIax	VV	3.41
Operational Short-circuit current breaking capacity (ics) at AC	230V	LΛ	100
	400V	kA kA	25
	400 V 440 V	kA kA	5
	500V	kA kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC	030 V	N/A	
Maximum short-circuit current breaking capacity (Icu) at Ac	230V	kA	100
	400V	kA	50
	440V	kA	10
	500V	kA	10
	690V	kA	4
Tripping class	0001	10 1	10A
IEC Utilization category			A
Operations			,,
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features		O y O l O O	100000
Tightening torque for terminals			
rightering terque for terminate	min	Nm	2.5
	max	Nm	3
	min	lbin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section			
AWG/Kcmil			
, (1, G), (G), (II)	min		16
	max		8
	max		-

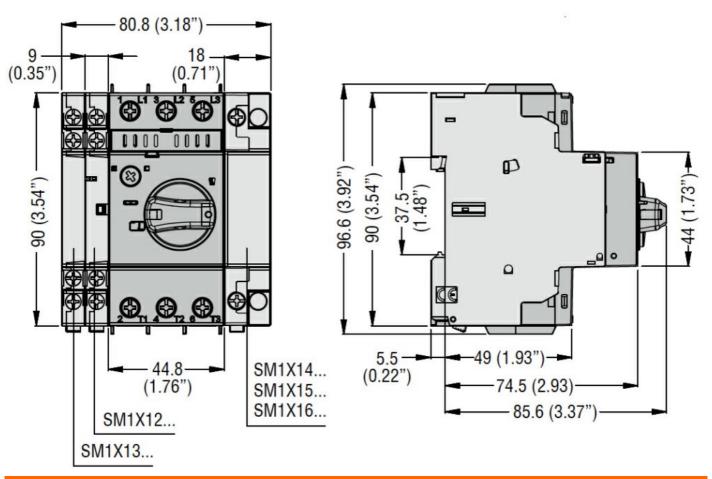


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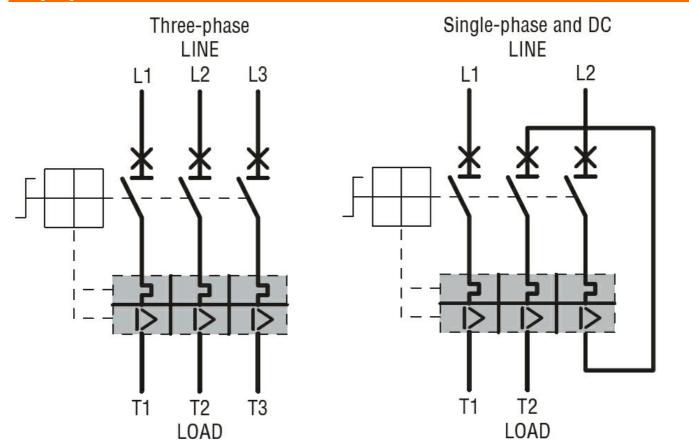
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20 on front
Cable stripping lenght				
		main circuit	mm	12
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
Finds a				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 Installatio	n			
		at 480V	kA	30
		at 600V	kA	30
		protection		200A class J
Maximum UL/CSA hor	sepower ratings single-phase	-		
		110V-120V	HP	1.5
		220V-240V	HP	3
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole			
	, , , , , ,	200V-208V	HP	5
		220V-240V	HP	7.5
		440V-480V	HP	15
		550V-600V	HP	20
Dimensions				



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Wiring diagrams



Certifications and compliance







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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