**ENERGY AND AUTOMATION** 

# MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1.6...2.5A



Product designation			Motor protection circuit breaker
Product type designation			SM1P
Electrical features Number of poles		Nr.	3
Magnetic protection		INI.	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
·		ΠZ	1.62.5
Thermal trip adjustment range Rated current (In)		Λ	2.5
		Α	
Magnetic tripping			13 x ln
Power dissipation per pole		147	0.07
	min	W	0.67
	max	W	1.63
Operational short-circuit current breaking capacity (Ics) at AC	0001/		
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	3
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	3
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	22
	max	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
,	min		16
	max		8
	Max		

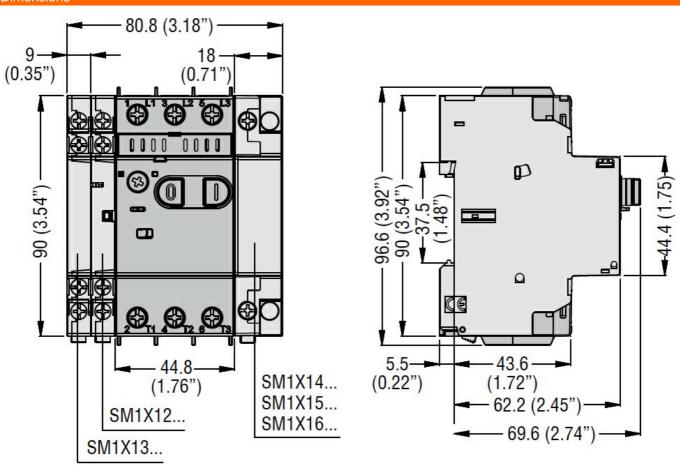


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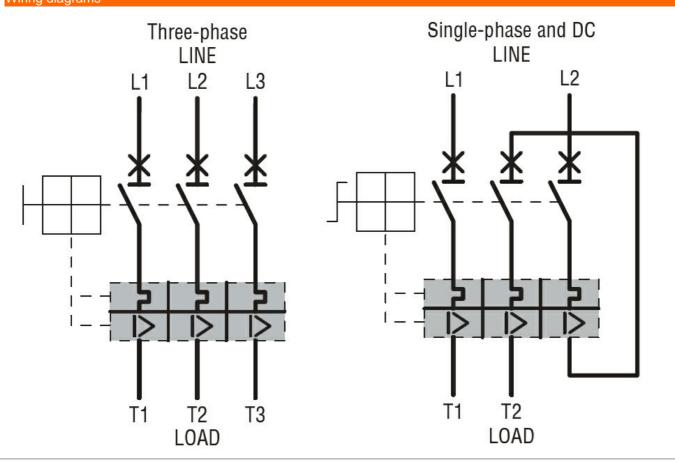
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
	<u>-</u>	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug co	onductor section		
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
	ction according to IEC/EN 60529			IP20
Cable stripping lengh	t			
		main circuit	mm	12
Ambient conditions				
Temperature	-			
	Operating temperature		0.0	00
		min	°C	-20
	Otama na tagana and	max	°C	+60
	Storage temperature		° C	F0
		min	°C	-50
	Componentian tomporature	max	<u> </u>	+80
	Compensation temperature	min	°C	-20
		max	°C	-20 +50
Max altitude		IIIdX		3000
Operating position				3000
operating position		normal		Vertical plan
		allowable		Any
				Screw / DIN rail
Fixing				35mm
Weight			g	350
UL technical data				
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
UL technical data				
		Group Motor Installation at 240V	kA	30
		Group Motor Installation at 480V	kA	30
		Group Motor Installation at 600V	kA	30
		oup Motor Installation protection		100A class J
Tap Conductor Prote	ction			
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
Maximum UL/CSA ho	orsepower ratings single-phase			
		110V-120V	HP	-
		220V-240V	HP	1/6
Maximum UL/CSA ho	orsepower ratings three-phase, 3-pole	2021/25-11		4.0
		200V-208V	HP	1/2
		220V-240V	HP	1/2
		4 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
		440V-480V 550V-600V	HP HP	1 1.5

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#### **Dimensions**



### Wiring diagrams







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Certifications and c	compliance	
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