

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.63...1A



Product designation			Motor protection circuit breaker
Product type designation			SM1P
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			0.631
Rated current (In)		Α	1
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	0.85
	max	W	2.14
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
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



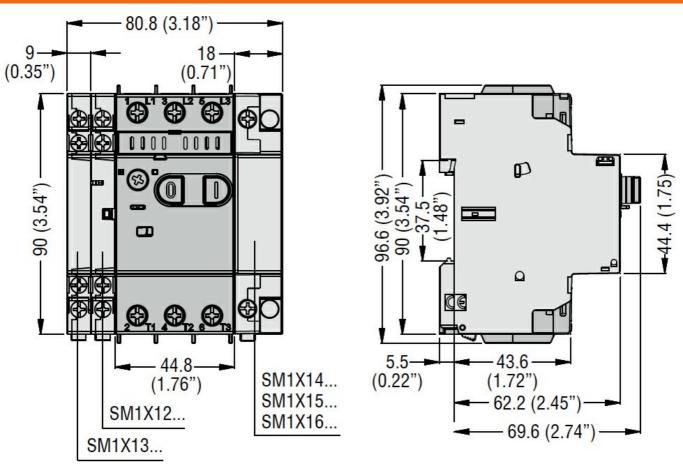


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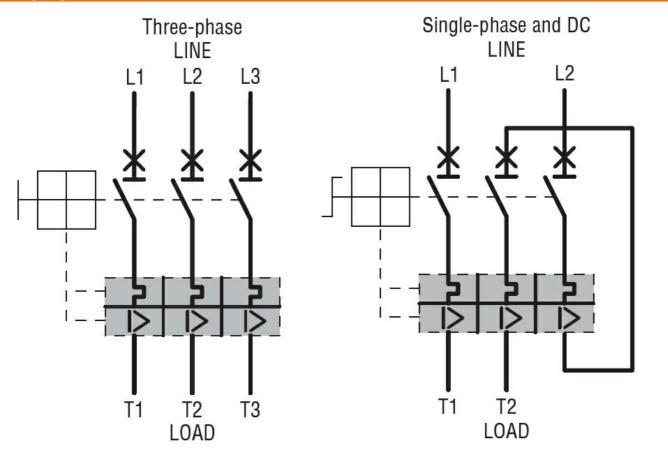
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Screwdriver			PH2
	ction according to IEC/EN 60529		IP20
Cable stripping lengh	nt main circuit	mm	12
Ambient conditions	main circuit	111111	12
Temperature			
Tomporatoro	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
Fixing			Screw / DIN rail 35mm
Weight		g	280
UL technical data		9	
Motor Disconnect			
	at 240V	kA	50
	at 480V	kA	50
	at 600V	kA	50
	protection		Fuse or CB
UL technical data			
			EΛ
	Group Motor Installation at 240V	kA	50
	Group Motor Installation at 480V	kA	50
	Group Motor Installation at 480V Group Motor Installation at 600V		50 50
Top Conductor Day	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection	kA	50
Tap Conductor Prote	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction	kA kA	50 50 Fuse or CB
Tap Conductor Prote	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V	kA kA kA	50 50 Fuse or CB
	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V	kA kA	50 50 Fuse or CB
	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V orsepower ratings single-phase	kA kA kA kA	50 50 Fuse or CB
	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V prespower ratings single-phase 110V-120V	kA kA kA kA	50 50 Fuse or CB
Maximum UL/CSA ho	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V presepower ratings single-phase 110V-120V 220V-240V	kA kA kA kA	50 50 Fuse or CB
Maximum UL/CSA ho	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V presepower ratings single-phase 110V-120V 220V-240V presepower ratings three-phase, 3-pole	kA kA kA HP HP	50 50 Fuse or CB
Maximum UL/CSA ho	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V presepower ratings single-phase 110V-120V 220V-240V presepower ratings three-phase, 3-pole 200V-208V	kA kA kA HP HP	50 50 Fuse or CB
	Group Motor Installation at 480V Group Motor Installation at 600V Group Motor Installation protection ction at 480Y/277V at 600Y/347V presepower ratings single-phase 110V-120V 220V-240V presepower ratings three-phase, 3-pole	kA kA kA HP HP	50 50 Fuse or CB

ENERGY AND AUTOMATION

Dimensions



Wiring diagrams





ENERGY AND AUTOMATION

SM1P0100

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Certifications and compliance			
Certifications			
	CSA C22.2 n° 14		
	IEC/EN 60947-1		
	IEC/EN 60947-2		
	IEC/EN 60947-4-1		
	UL508		
Compliance			
	cULus		
	EAC		
FTIM classification			

ETIM 8.0

EC000074 -Motor protection circuit-breaker