ENERGY AND AUTOMATION

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



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			1.62.5
Rated current (In)		Α	2.5
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.67
	max	W	1.63
Operational short-circuit current breaking capacity (Ics) at AC			_
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
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	Ibin	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	2	4
	min	mm² mm²	1 10
	Flexible with insulated spade lug conductor section	111111	10
	min	mm²	1
	max	mm²	10
Screwdriver	max		PH2
	ion according to IEC/EN 60529		IP20
Cable stripping lenght			= 0
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	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 altitude	max	°C	+50
		m	3000
Operating position	normal		Vertical plan
	allowable		Vertical plan Any
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	320
UL technical data			
Motor Disconnect			
	at 480V	kA	30
	at 600V	kA	30
	protection		Fuse or CB
UL technical data			
	Group Motor Installation at 480V	kA	30
	Group Motor Installation at 600V	kA	30
Ton Conductor Drotoct	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect		IzΛ	20
	at 480Y/277V at 600Y/347V	kA kA	30 30
III 508 / III 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short of		
32000 / 32 00047 4-1	at 240V	kA	65
	at 480Y/277V	kA	65
	at 600Y/347V	kA	30
Maximum UL/CSA horsepower ratings single-phase			
	110V-120V	HP	-
	220V-240V	HP	1/6
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole		
	200V-208V	HP	1/2
	220V-240V	HP	1/2



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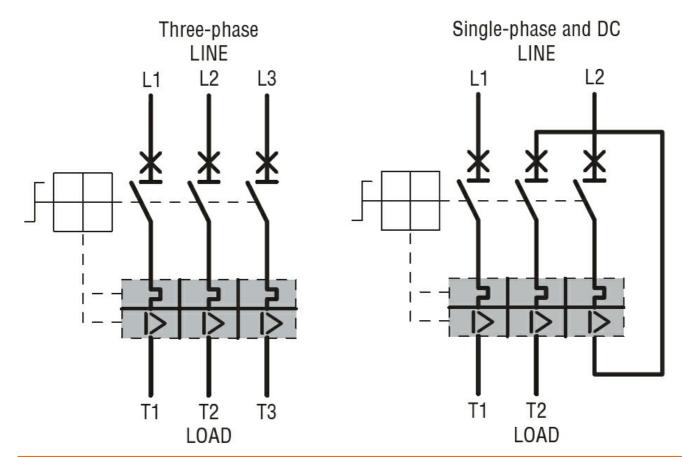
440V-480V HP 1 550V-600V HP 1.5

Dimensions 80.8 (3.18") -9 (0.35")D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... -85.6 (3.37") SM1X12... SM1X13...

Wiring diagrams

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



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

ETIM classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker