electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.63...1A **ENERGY AND AUTOMATION**



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features		N.I.	
Number of poles		Nr.	3
Magnetic protection Thermal protection			yes
Phase failure detection			yes
		V	yes
Rated insulation voltage Ui IEC/EN			690
Rated impulse withstand voltage Uimp		kV	
Rated frequency		Hz	50/60
Thermal trip adjustment range		Δ.	0.631
Rated current (In)		Α	1
Magnetic tripping			13 x ln
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			Α
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



ENERGY AND AUTOMATION

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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
	The vibility with inscripted and deliver conductors agetion	mm²	10
	Flexible with insulated spade lug conductor section	mm²	1
	min max	mm²	10
Screwdriver	Шах	111111	PH2
	ion according to IEC/EN 60529		IP20
Cable stripping lenght	ion according to 120/214 00023		11 20
Cable stripping length	main circuit	mm	12
Ambient conditions	main eneur		
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			Maderalas
	normal allowable		Vertical plan
	allowable		Any Screw / DIN rail
Fixing			35mm
Weight		g	320
UL technical data		9	
Motor Disconnect			
	at 480V	kA	50
	at 600V	kA	50
	protection		Fuse or CB
UL technical data			_
	Group Motor Installation at 480V	kA	50
	Group Motor Installation at 600V	kA	50
T. O. I 5	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect			50
	at 480Y/277V at 600Y/347V	kA kA	50 50
III 500 / III 60047 4 4			
UL3U0 / UL 0U947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short of at 240V	circuit cui kA	rrent 65
	at 240V at 480Y/277V	kA kA	65
	at 6001/277V at 600Y/347V	kA	50
Maximum UL/CSA hor	sepower ratings single-phase	10.1	
	110V-120V	HP	-
	220V-240V	HP	-
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole		
	200V-208V	HP	-
	220V-240V	HP	-



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ENERGY AND AUTOMATION

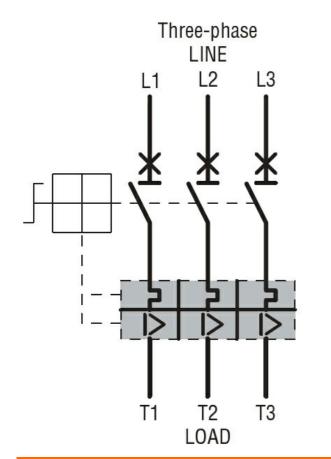
440V-480V HP 1/2 550V-600V HP 1/2

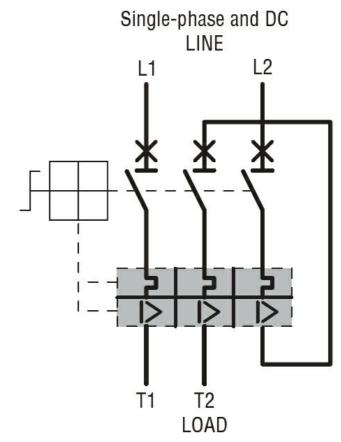
Dimensions 80.8 (3.18") -9 (0.35")D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... -85.6 (3.37") SM1X12... SM1X13...

Wiring diagrams

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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