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		1
	max	mm²	10
	Flexible c/w lug conductor section	2	
	min	mm²	1
	Max	mm²	10
	Flexible with insulated spade lug conductor section		4
	min	mm² mm²	1 10
Screwdriver	max	ППП	PH2
	ion according to IEC/EN 60529		IP20 on front
Cable stripping lenght	lion according to IEC/EN 60329		IF 20 OII IIOIIL
Cable stripping length	main circuit	mm	12
Ambient conditions	main circuit	111111	12
Temperature			
Tomporataro	Operating temperature		
	min	°C	-20
	max	°C	+60
	Storage temperature	-	
	min	°C	-50
	max		+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	320
UL technical data			
Motor Disconnect	ot 490\/	LΛ	20
	at 480V at 600V	kA kA	30 30
	protection	KA	Fuse or CB
Group Motor Installatio	·		1 036 01 CD
Croup Motor Histaliatio	at 480V	kA	30
	at 600V	kA	30
	protection	IV t	Fuse or CB
Tap Conductor Protect	·		
	at 480Y/277V	kA	30
	at 600Y/347V	kA	30
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short		
	at 240V	kA	65
	at 480Y/277V		65
	at 600Y/347V	kA	30
Maximum UL/CSA hors	sepower ratings single-phase		
	110V-120V	HP	-
	220V-240V	HP	1/6
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole		
	200V-208V		1/2
	220V-240V	HP	1/2



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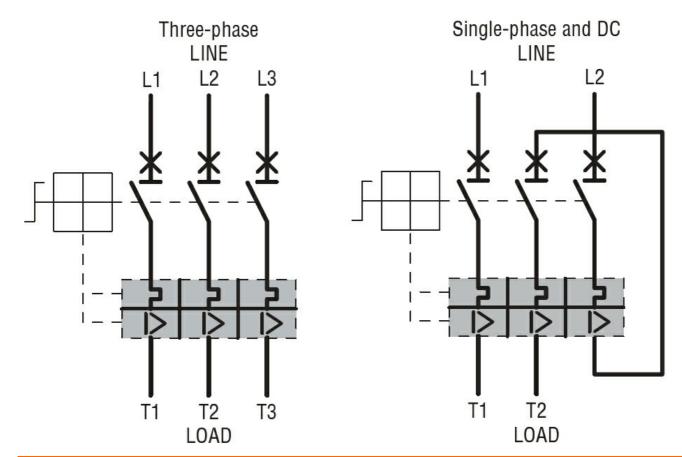
440V-480V HP 1 550V-600V HP 1.5

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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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