ENERGY AND AUTOMATION

SM1R0400 electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A



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			2.54
Rated current (In)		А	4
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	0.90
	max	W	2.29
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			А
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

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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
Power terminal protect	ction according to IEC/EN 60529		IP20
Cable stripping lenght			
	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		
	nin . Min	°C	-20
	max	°C	+50
Max altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		Any
Fixing			Screw / DIN rai 35mm
Weight		g	390
UL technical data		Ŭ	
Motor Disconnect			
	at 480V	kA	30
	at 600V	kA	30
	protection	-	Fuse or CB
UL technical data	1		
	Group Motor Installation at 480V	kA	30
	Group Motor Installation at 600V	kA	30
	Group Motor Installation protection		Fuse or CB
Tap Conductor Protec			
	at 480Y/277V	kA	30
	at 600Y/347V	kA	30
UL508 / UL 60947-4-1	I Manual Self Protected Combination Motor Controller (Type E) Short of		
	at 240V	kA	65
	at 480Y/277V	kA	65
	at 600Y/347V	kA	30
Maximum UL/CSA ho	rsepower ratings single-phase	101	~~
	110V-120V	HP	1/8
	220V-240V	HP	1/3
	2200-2400	111	1/0
Maximum III /CSA bo	rsenower ratings three-phase 3-pole		
Maximum UL/CSA ho	rsepower ratings three-phase, 3-pole	ΗD	3/4
Maximum UL/CSA ho	rsepower ratings three-phase, 3-pole 200V-208V 220V-240V	HP HP	3/4 3/4

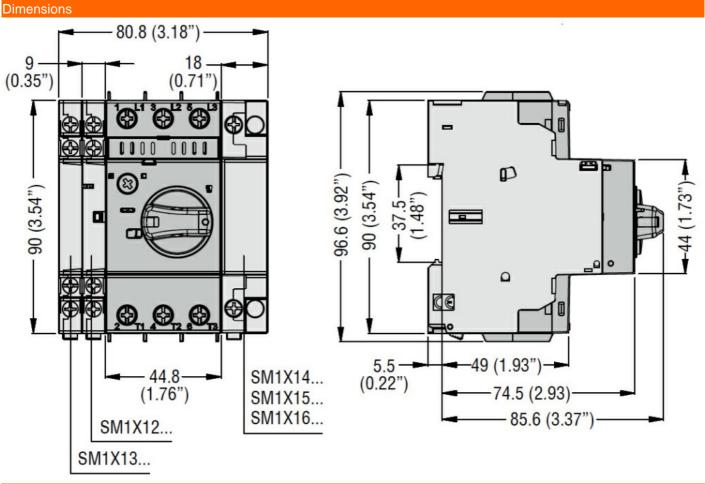
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MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A

440V-480V HP 2 550V-600V HP 3



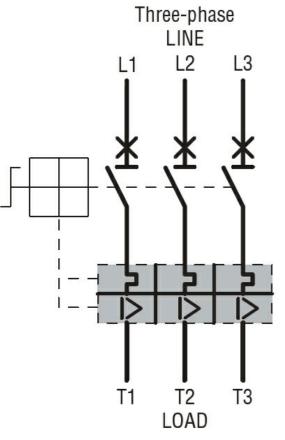
Wiring diagrams

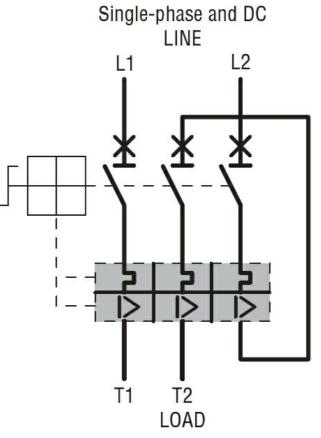
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Certifications and co	ompliance	
Certifications		
	CSA C22.2 n° 14	
	IEC/EN 60947-1	
	IEC/EN 60947-2	
	IEC/EN 60947-4-1	
	UL508	
Compliance		
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000074 - Motor protection circuit-breaker