### electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A **ENERGY AND AUTOMATION**



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			0.40.63
Rated current (In)		Α	0.63
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.79
	max	W	1.95
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
Maria all conference de la consecutación de la	max	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil	ma !-a		16
	min		16 8
	max		O

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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 lenght			
	main circuit	mm	12
Ambient conditions			
Temperature			
	Operating temperature	^ <b>~</b>	00
	min	°C	-20
	Character to the control of the cont	°C	+60
	Storage temperature	0.0	50
	min	°C	-50
	Componentian temperature	°C	+80
	Compensation temperature	°C	20
	min	°C	-20 +50
Max altitude	max		3000
Operating position		m	3000
Operating position	normal		Vertical plan
	allowable		Any
	allowable		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
	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect	tion		
	at 480Y/277V	kA	50
	at 600Y/347V	kA	50
		,	rrent
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short c		
UL508 / UL 60947-4-1	at 240V	kA	65
UL508 / UL 60947-4-1	at 240V at 480Y/277V	kA kA	65 65
	at 240V at 480Y/277V at 600Y/347V	kA	65
	at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase	kA kA kA	65 65
	at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V	kA kA kA	65 65
Maximum UL/CSA ho	at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V	kA kA kA	65 65
Maximum UL/CSA hor	at 240V at 480Y/277V at 600Y/347V  rsepower ratings single-phase  110V-120V 220V-240V  rsepower ratings three-phase, 3-pole	kA kA kA HP HP	65 65
Maximum UL/CSA hor	at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V	kA kA kA	65 65

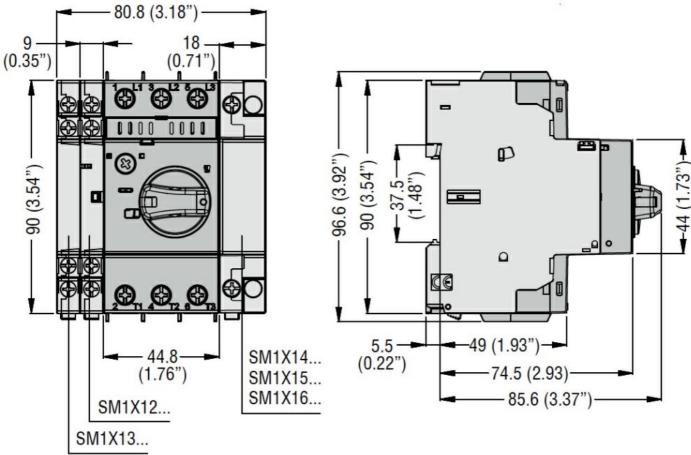


MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A **ENERGY AND AUTOMATION** 

> 440V-480V HP

550V-600V HP

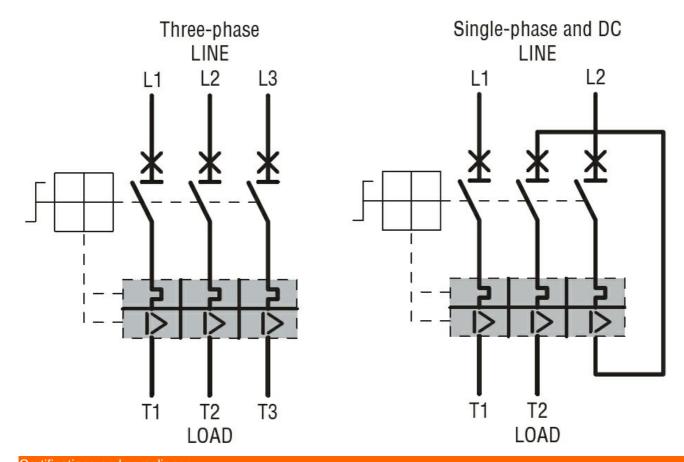
# Dimensions 9



Wiring diagrams

**ENERGY AND AUTOMATION** 

## MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A



### 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