## MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.1...0.16A **ENERGY AND AUTOMATION**



Product designation				Motor protection circuit breaker
Product type designation				SM1R
Electrical features			NI	
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				0.10.16
Rated current (In)			Α	0.16
Magnetic tripping				10 x ln
Total power dissipation	n		W	2.07
Operational short-circu	uit 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				A
Operations	,			
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features			0,0.00	
Tightening torque for t	rerminals			
rigintorning torquo for t		min	Nm	2.5
		max	Nm	3
		min	lbin	22
		max	lbin	26.5
Max number of wires	simultaneously connectable	max	Nr.	2
Max number of wires simultaneously connectable  Conductor section			111.	<u>_</u>
Conductor Section	AWG/Kcmil			
	AWOARdiiii	min		16
		max		8
	Flexible w/o lug conductor section	IIIdX		0
	i levible m/o lug colludciol section	min	mm²	1
		min	mm²	1

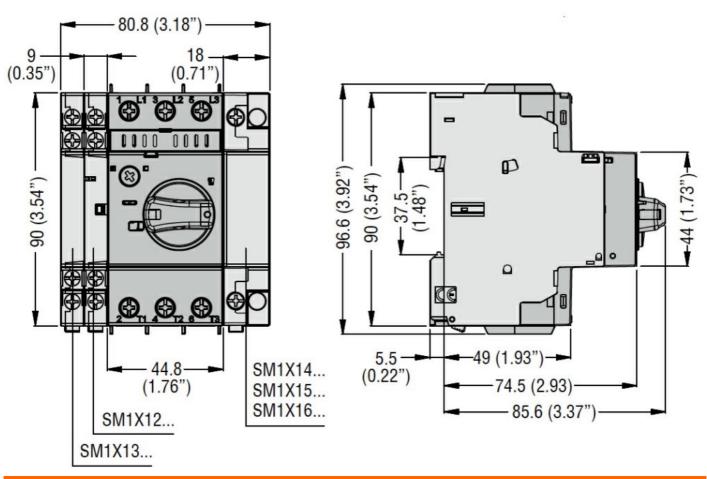


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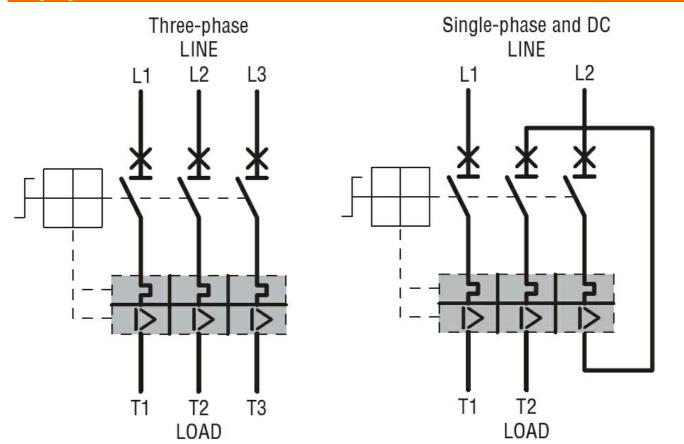
## electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.1...0.16A

	Flexible c/w lug conductor section			
	<del></del>	min	mm²	
	Flexible with insulated spade lug conductor section	min	mm²	1
Screwdriver				PH2
Power terminal protection	ction according to IEC/EN 60529			IP20
Cable stripping lengh	t			
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature		0.0	50
		min	°C	-50
		max	°C	+80
	Compensation temperature		°C	20
		min	°C	-20
Max altitude		max		+50
			m	3000
Operating position		normal		Vertical plan
		normal allowable		Vertical plan
		allowable		Any Screw / DIN rail
Fixing				35mm
Weight			g	320
UL technical data			9	020
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	50
		protection		Fuse or CB
Group Motor Installati	ion			
'		at 480V	kA	50
		at 600V	kA	50
		protection		Fuse or CB
Tap Conductor Protect	ction	•		
-		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
UL508 / UL 60947-4-	1 Manual Self Protected Combination Motor Controller (	Type E) Short o	ircuit cui	rrent
	·	at 240V	kA	50
	;	at 480Y/277V	kA	50
		at 600Y/347V	kA	50
Maximum UL/CSA ho	orsepower ratings single-phase			
		110V-120V	HP	-
		220V-240V	HP	-
Maximum UL/CSA ho	orsepower ratings three-phase, 3-pole			_
		200V-208V	HP	-
		220V-240V	HP	-
		440V-480V	HP	-
Dimensions				- - -





## Wiring diagrams





## SM1R0016

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.1...0.16A

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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