

**ENERGY AND AUTOMATION** 

# MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.16...0.25A

9 9 9 11111111

Motor protection Product designation 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 690 Rated impulse withstand voltage Uimp k۷ 6 Rated frequency Hz 50/60 Thermal trip adjustment range 0.16...0.25Rated current (In) Α 0.25 Magnetic tripping 10 x In Power dissipation per pole W min 0.81 max W 1.97 Operational short-circuit current breaking capacity (Ics) at AC 230V kΑ 100 400V kΑ 100 440V kΑ 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			
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3

	THIN	IMIII	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

500V

690V

kΑ

kΑ

100

100

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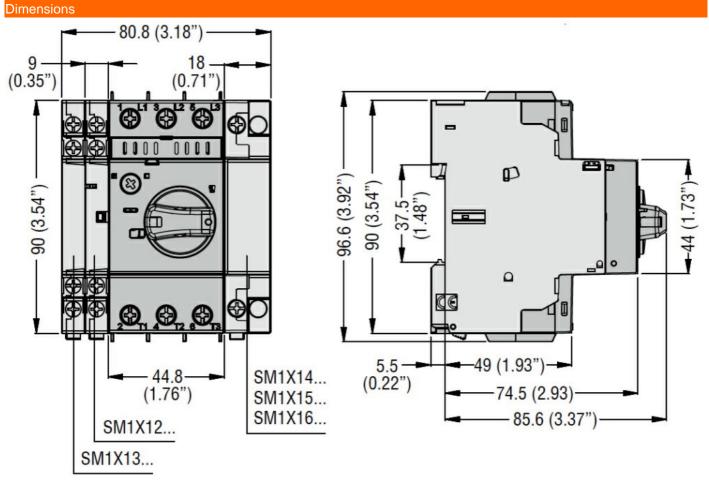
# electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.16...0.25A

	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
	E. 91 99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	max	mm²	10
	Flexible with insulated spade lug conductor			4
		min	mm² mm²	1 10
Screwdriver		max	ШШ	PH2
	tion according to IEC/EN 60529			IP20 on front
Cable stripping lenght	tion according to IEC/EN 00329			II 20 OII IIOIIL
Cable outphing longing		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		2.5	0.0
		min	°C	-20
NA ICC   I		max	°C	+50
Max altitude			m	3000
Operating position				\/articel plan
		normal allowable		Vertical plan Any
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	320
UL technical data				
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	50
		protection		Fuse or CB
Group Motor Installation	on			
		at 480V	kA	50
		at 600V	kA	50
T- 0 1 1 5 1		protection		Fuse or CB
Tap Conductor Protect	tion	- ( 400) ( /077) (		50
		at 480Y/277V	kΑ	50
III 500 / III 600 47 4 4	Manual Calf Protected Combination Mater	at 600Y/347V	kA	50
UL300 / UL 00947-4-1	Manual Self Protected Combination Motor (	controller (Type E) Short c at 240V	ircuit cui kA	rent 65
		at 480Y/277V	kA kA	65
		at 600Y/347V	kA kA	50
Maximum UL/CSA hor	sepower ratings single-phase	ut 0001/041 V	10.1	
	TOPE TO TAKINGO ONIGIO PITAGO	110V-120V	HP	-
		220V-240V	HP	-
Maximum III /CSA bor				
Maximum OL/COA NO	sepower ratings three-phase, 3-pole			
Maximum OL/CSA NOI	sepower ratings three-phase, 3-pole	200V-208V	HP	-
Maximum OL/COA HOI	sepower ratings three-phase, 3-pole	200V-208V 220V-240V	HP HP	-

#### MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.16...0.25A **ENERGY AND AUTOMATION**

440V-480V HP

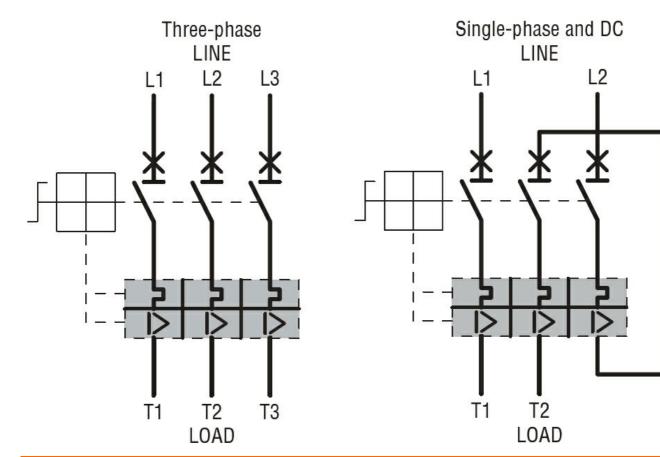
550V-600V HP



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