

ENERGY AND AUTOMATION

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

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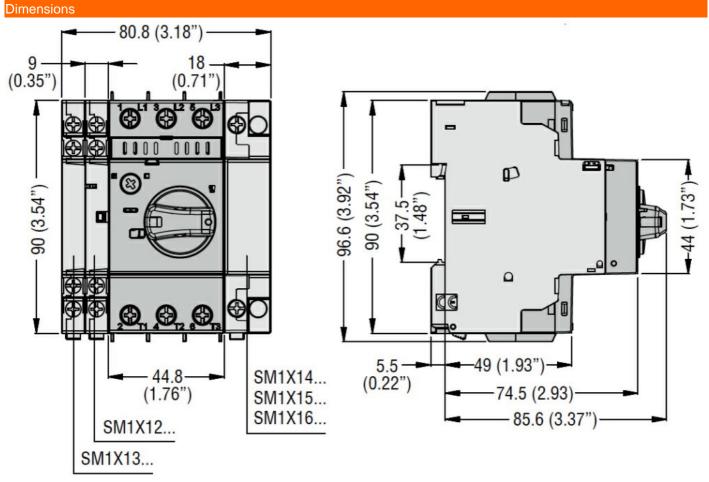
electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.16...0.25A

	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible c/w lug conductor section	· 2	4
	min	mm² mm²	1 10
	Flexible with insulated spade lug conductor section	111111	10
	min	mm²	1
	max	mm²	10
Screwdriver	ПМ		PH2
Power terminal protection according to IEC/EN 60529			IP20
Cable stripping lenght			= 0
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	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		
	min	°C	-20
Max altitude	max	°C	+50
		m	3000
Operating position	normal		Vertical plan
	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
UL technical data			
	Group Motor Installation at 480V	kA	50
	Group Motor Installation at 600V	kA	50
Ton Conductor Drotoct	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect		IzΛ	50
	at 480Y/277V at 600Y/347V	kA kA	50 50
III 508 / III 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short of		
32000 / 32 00047 4-1	at 240V	kA	65
	at 480Y/277V	kA	65
	at 600Y/347V	kA	50
Maximum UL/CSA hors	sepower ratings single-phase		
	110V-120V	HP	-
	220V-240V	HP	-
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole		
	200V-208V	HP	-
	220V-240V	HP	-

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440V-480V HP

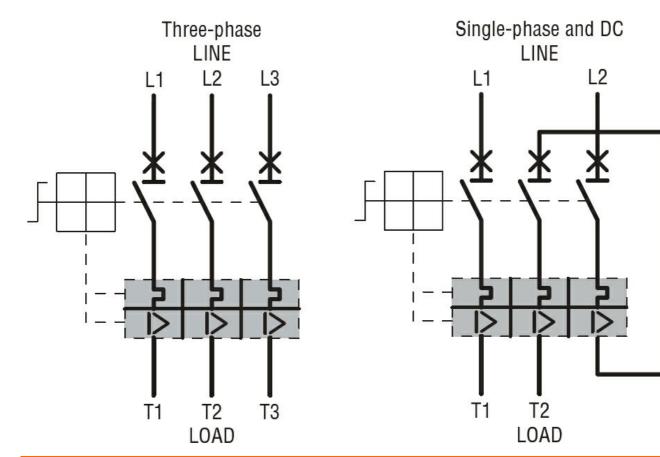
550V-600V HP



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