ENERGY AND AUTOMATION

electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT

400V, 9...14A



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features Number of poles		Nr.	3
Magnetic protection		INI.	
Thermal protection			yes
Phase failure detection			yes
		V	yes 690
Rated insulation voltage Ui IEC/EN		kV	6
Rated impulse withstand voltage Uimp		Hz	
Rated frequency		ΠZ	50/60
Thermal trip adjustment range		Δ.	914
Rated current (In)		Α	14
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.13
-	max	W	2.73
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	42
	500V	kA	42
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	42
	690V	kA	4
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
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			_
AWG/Kcmil			
	min		16
	max		8
			-

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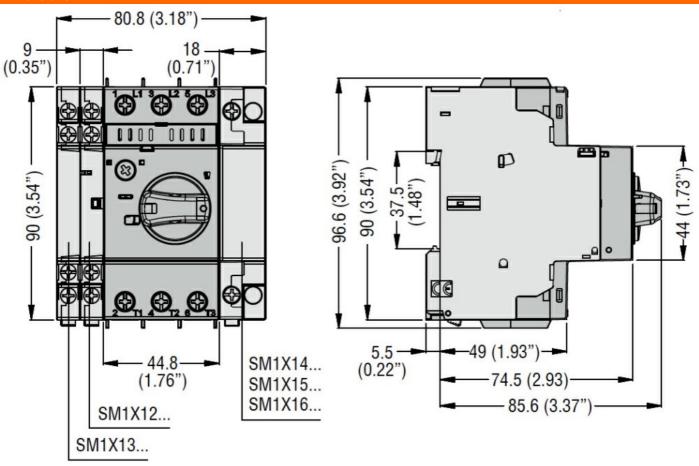
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		4
	min	mm²	1
0	max	mm²	10
Screwdriver	tion consuling to IEO/EN COCOO		PH2
•	ction according to IEC/EN 60529		IP20 on front
Cable stripping lenght	main circuit	mm	12
Ambient conditions	main circuit	mm	12
Temperature			
remperature	Operating temperature		
	min	°C	-20
	max	°C	+60
	Storage temperature		
	min	°C	-50
	max	°C	+80
	Compensation temperature		
	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			
Motor Disconnect			
	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
	protection		200A class J
Group Motor Installation		_	
	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
	protection		200A class J
Ton Conducts - Dest			
Tap Conductor Protec		1. /	G.E.
Tap Conductor Protec	at 480Y/277V	kΑ	65
•	at 480Y/277V at 600Y/347V	kA	30
•	at 480Y/277V at 600Y/347V 1 Manual Self Protected Combination Motor Controller (Type E) Short	kA circuit cu	30 rrent
•	at 480Y/277V at 600Y/347V 1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V	kA circuit cu kA	30 rrent 65
•	at 480Y/277V at 600Y/347V 1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V	kA circuit cu kA kA	30 rrent 65 65
UL508 / UL 60947-4-1	at 480Y/277V at 600Y/347V 1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V	kA circuit cu kA	30 rrent 65
	at 480Y/277V at 600Y/347V 1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase	kA circuit cu kA kA kA	30 rrent 65 65 30
UL508 / UL 60947-4-1	at 480Y/277V at 600Y/347V 1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V	kA circuit cu kA kA	30 rrent 65 65

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200V-208V HP 3 220V-240V HP 3 440V-480V HP 10 550V-600V HP 10

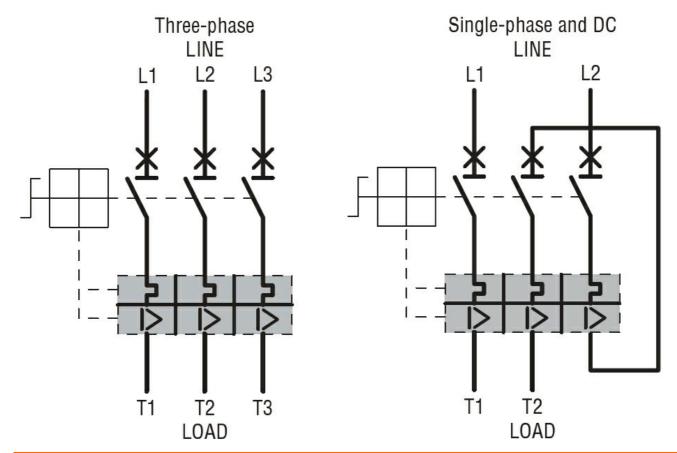
Dimensions



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

SM1RE1400

EC000074 -Motor protection circuit-breaker