electric 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			
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
Power dissipation per pole			
	min	W	0.81
	max	W	2.07
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
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
AWG/Kcmil	min		16 8

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

	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
	ion according to IEC/EN 60529		IP20
Cable stripping lenght			40
And the Control of Pitters	main circuit	mm	12
Ambient conditions			
Temperature			
	Operating temperature	°C	-20
	min	°C	-20 +60
	Storage temperature max	<u> </u>	+00
	Storage temperature min	°C	-50
	max	°C	+80
	Compensation temperature		100
	min	°C	-20
	max	°C	+50
Max altitude		m	3000
Operating position			
1 01	normal		Vertical plan
	allowable		Any
Fixing			Screw / DIN rail 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
	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect			
	at 480Y/277V	kA	50
	at 600Y/347V	kA	50
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short		
	at 240V	kA	65
	at 480Y/277V	kΑ	65
Maximum III /CCA k	at 600Y/347V	kA	50
iviaximum UL/CSA nors	sepower ratings single-phase	UD	
	110V-120V 220V-240V	HP HP	-
Maximum III /CSA har	sepower ratings three-phase, 3-pole	ПГ	
waxiiilulii UL/USA 11013	sepower ratings triree-phase, 3-pole 200V-208V	HP	_
	200V-200V 220V-240V	nr HP	-
	2201-2401		

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

440V-480V HP

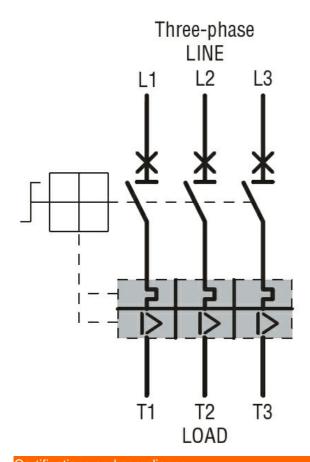
550V-600V HP

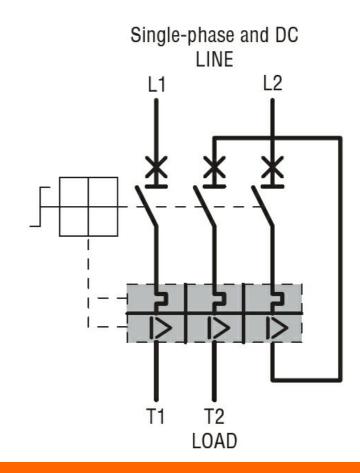
Dimensions 80.8 (3.18") -9 (0.35"D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... -85.6 (3.37") SM1X12... SM1X13...

Wiring diagrams

ENERGY AND AUTOMATION

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





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