electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A **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			0.40.63
Rated current (In)		Α	0.63
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.79
	max	W	1.95
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
Maria all conference de la consecutación de la	max	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil	ma !-a		16
	min		16 8
	max		O



ENERGY AND AUTOMATION

electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A

	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	2	
	min	mm²	1
0	max	mm²	10
Screwdriver	'		PH2
•	tion according to IEC/EN 60529		IP20 on front
Cable stripping lenght	main aireuit	m m	10
Ambient conditions	main circuit	mm	12
Temperature			
remperature	Operating temperature		
	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			
1 01	normal		Vertical plan
	allowable		Any
Fixing a			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 Installatio			
	at 480V	kA	50
	at 600V	kA	50
	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 /004 I	at 600Y/347V	kA	50
iviaximum UL/CSA nor	sepower ratings single-phase	LID	
	110V-120V	HP	-
Movimum III /CCA L	220V-240V	HP	<u>-</u>
waxiiiluiii UL/CSA nor	sepower ratings three-phase, 3-pole	UD	
	200V-208V	HP HP	-
	220V-240V	пР	-

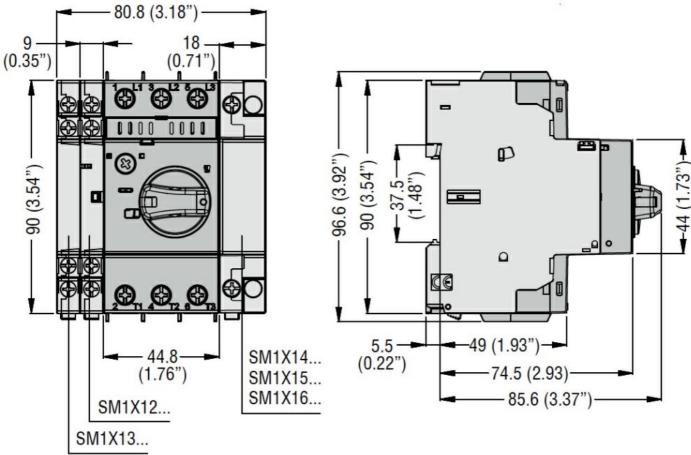


MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A **ENERGY AND AUTOMATION**

> 440V-480V HP

550V-600V HP

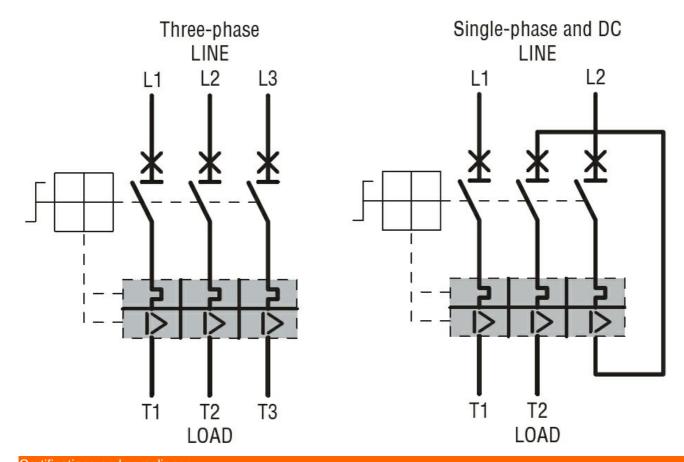
Dimensions 9



Wiring diagrams

ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A



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