electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A **ENERGY AND AUTOMATION**



Product designation				SM1R
Product type designation	on			Motor protective circuit breaker
Electrical features				circuit breaker
Number of poles			nr.	3
Magnetic protection				Yes
Thermal protection				Yes
Phase failure detection	1			Yes
Rated insulation voltag	e Ui		V	690
Rated impulse withstar			kV	6
Rated frequency	<u> </u>		Hz	50/60
Thermal trip adjustmen	t range			2,54
Rated current (In)	5		Α	4
Magnetic tripping				13 x ln
	it current breaking capacity (Ics) at AC			
•	3 1 ,	230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	10
Maximum short-circuit	current breaking capacity (Icu) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	10
Operations				
Mechanical life			Cycles	100,000
Electrical life			Cycles	100,000
Mechanical feautures				
Tightening torque for te	erminals			
		min	Nm	3
		max	Nm	3
		min	lbft	2
		max	lbft	2
max number of wires s	imultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		16
		max		8
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1



MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A

main circuit

mm

1

ENERGY AND AUTOMATION					
		max	mm²	10	
	Flexible with insulated spade lug conductor section				
		min	mm²	1	

	max	IIIIII-	10
Screwdriver			PH2
Power terminal protection according to IEC/EN 60529			IP20

Cable stripping lenght

emperature				
	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	3,000
Operating position				

Operating position	า
--------------------	---

	normal		Su piano verticale
	allowable		Qualsiasi
Mounting			A vite / profilato
Woulding			omega 35mm
Weight	(g	390

UL technical data

UL508 / UL60947-4-1	Manual Motor	Controller -	 Short circuit c 	urrent

Motor Disconnect			
	at 480V	kA	30
	at 600V	kA	30
	protection		Fuse or CB
Group Motor Installation			

at 480V	kA	30
at 600V	kA	30
protection		Fuse or CB

	p. 0.00		
Tap Conductor Protection			
	at 480Y/277V	kA	30
	at 600Y/347V	kA	30

UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current					
at 240V	kA	30			
at 480Y/277V	kA	30			
at 600Y/347V	kA	30			

Maximum UL/CSA horsepower ratings single-phase			
	at 110V-120V	hp	1
	at 220V-240V	hp	2

Maximum UL/CSA horsepower ratings three-phase, 3-pole	
	at 200V-208V
	- 1 00001 0 101 /

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

Dimensions

-85.6 (3.37")



ENERGY AND AUTOMATION

80.8 (3.18") (0.35")96.6 (3.92") 90 (3.54") Н 49 (1.93") 5.5 SM1X14... (0.22")74.5 (2.93)

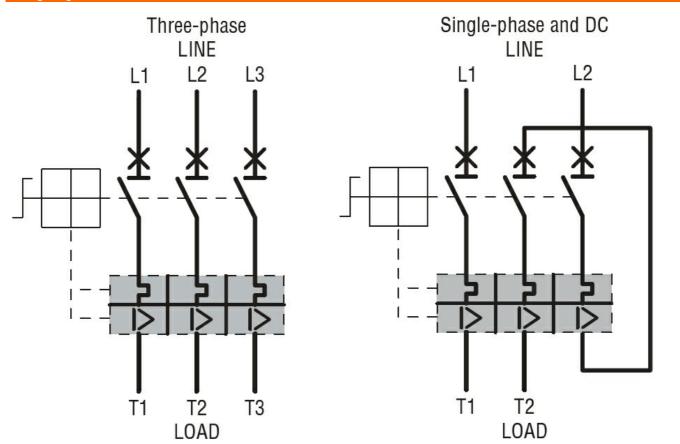
SM1X15... SM1X16...

Wiring diagrams

(1.76")

SM1X12...

SM1X13...





SM1R0400

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A

ENERGY AND AUTOMATION

Cer	tifica	ation	s
COL	111100		J

CSA C22.2 n° 14
IEC/EN 60947-1
IEC/EN 60947-2
IEC/EN 60947-4-1
UL508

Compliance

cULus

EAC

ETIM 6 classification