ENERGY AND AUTOMATION



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features Number of poles		Nr.	3
Magnetic protection		INI.	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		112	6.310
Rated current (In)		Α	10
Magnetic tripping		7.	13 x ln
Power dissipation per pole			
	min	W	1.03
	max	W	2.61
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			А
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	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8



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

**SM1RE1000** 

400V, 6.3...10A

	Flexible w/o lug conductor section			
	0	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
	ection according to IEC/EN 60529			IP20 on front
Cable stripping lengl	ht			
A 1 1 4 11.1		main circuit	mm	12
Ambient conditions				
Temperature				
	Operating temperature		° <b>^</b>	20
		min	°C °C	-20
	Storago tomporaturo	max	U	+60
	Storage temperature	min	°C	-50
		max	°C	-50 +80
	Compensation temperature	max	C	+00
	Compensation temperature	min	°C	-20
		max	°C	+50
Max altitude		Пах	 	3000
Operating position				0000
oporating poolition		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rai 35mm
Weight			g	390
UL technical data			9	
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
Group Motor Installa	tion	-		
-		at 240V	kA	30
			kA	30
		at 480V		
		at 480V at 600V	kA	30
			kA	30 100A class J
Tap Conductor Prote		at 600V protection	kA	100A class J
Tap Conductor Prote	â	at 600V protection at 480Y/277V	kA kA	
	a	at 600V protection at 480Y/277V at 600Y/347V	kA kA	100A class J 65 30
	â	at 600V protection at 480Y/277V at 600Y/347V Type E) Short c	kA kA ircuit cui	100A class J 65 30
	a a -1 Manual Self Protected Combination Motor Controller ( <sup>-</sup>	at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V	kA kA ircuit cui kA	100A class J 65 30 rrent 65
	a a -1 Manual Self Protected Combination Motor Controller ( <sup>-</sup> a	at 600V protection at 480Y/277V at 600Y/347V Type E) Short c at 240V at 480Y/277V	kA kA ircuit cui kA kA	100A class J 65 30 rrent 65 65
UL508 / UL 60947-4	a a -1 Manual Self Protected Combination Motor Controller ( <sup>-</sup> a a a	at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V	kA kA ircuit cui kA	100A class J 65 30 rrent 65
UL508 / UL 60947-4	a a -1 Manual Self Protected Combination Motor Controller ( <sup>-</sup> a	at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V at 480Y/277V at 600Y/347V	kA kA ircuit cui kA kA kA	100A class J 65 30 rrent 65 65 30
	a a -1 Manual Self Protected Combination Motor Controller ( <sup>-</sup> a a a	at 600V protection at 480Y/277V at 600Y/347V Type E) Short c at 240V at 480Y/277V	kA kA ircuit cui kA kA	100A class J 65 30 rrent 65 65

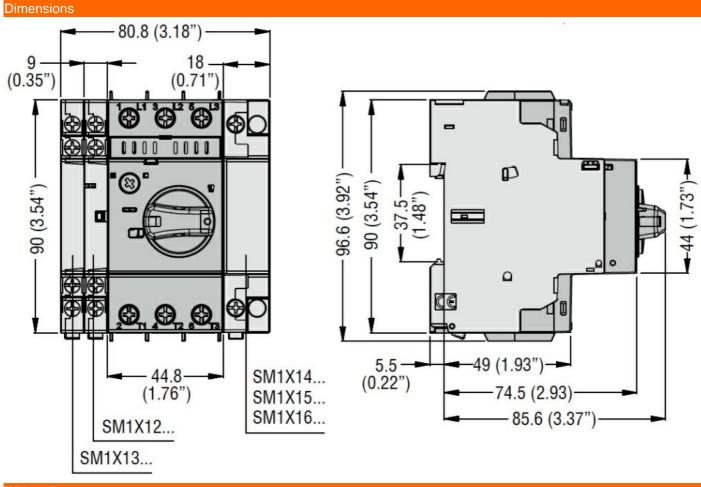
**SM1RE1000** 



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

400V, 6.3...10A

200V-208V	HP	2
220V-240V	HP	3
440V-480V	HP	5
550V-600V	HP	7.5



Wiring diagrams

## **SM1RE1000**



electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 6.3...10A

ENERGY AND AUTOMATION

Single-phase and DC Three-phase LINE LINE L2 L2 L3 L1 11 T1 T2 T1 T2 T3 LOAD LOAD Certifications and compliance

Certifications

Certifications		
	CSA C22.2 n° 14	
	IEC/EN 60947-1	
	IEC/EN 60947-2	
	IEC/EN 60947-4-1	
	UL508	
Compliance		
	cULus	
	EAC	
ETIM classificatio	n	
		EC000074 -
ETIM 8.0		Motor protection

Motor protection circuit-breaker

SM1RE1000