



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features Number of poles		Nr.	3
		INI.	
Magnetic protection Thermal protection			yes
Phase failure detection			yes
		V	yes
Rated insulation voltage Ui IEC/EN			690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range		•	1723
Rated current (In)		A	23
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.86
	max	W	3.41
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	25
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	10
	500V	kA	10
	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 50KA AT 400V, 17...23A

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ENERGY AND AUTOMATION				,
	Flexible w/o lug conductor section			4
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			4
		min	mm²	1
	Flavible with inculated anode lug conductor costion	max	mm²	10
	Flexible with insulated spade lug conductor section	min	mm²	1
		max	mm²	10
Screwdriver		Παλ	111111	PH2
	ction according to IEC/EN 60529			IP20 on front
Cable stripping lengh	-			IF 20 OIT HOIIL
Cable Sulpping lengin		circuit	mm	12
Ambient conditions	mair	reneun	111111	12
Temperature				
i omporataro	Operating temperature			
		min	°C	-20
		max	°Č	+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
	alle	owable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	390
UL technical data				
Motor Disconnect				
	а	t 240V	kA	30
		t 480V	kA	30
		t 600V	kA	30
_		tection		200A class J
Group Motor Installati	•			
Group Motor mistaliat				
	а	t 240V	kA	30
	a	t 480V	kA	30
	a a a	t 480V t 600V		30 30
	a a a pro	t 480V	kA	30
	a a pro ction	t 480V t 600V tection	kA kA	30 30 200A class J
Tap Conductor Prote	a a pro ction at 480\	t 480V t 600V tection	kA kA kA	30 30 200A class J 30
Tap Conductor Prote	a a pro ction <u>at 480\</u> 1 Manual Self Protected Combination Motor Controller (Type E	t 480V t 600V tection //277V ) Short c	kA kA kA circuit cur	30 30 200A class J 30 rrent
Tap Conductor Prote	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a	t 480V t 600V tection (/277V ) Short c t 240V	kA kA kA sircuit cur kA	30 30 200A class J 30 rent 30
Tap Conductor Prote UL508 / UL 60947-4-	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a at 480)	t 480V t 600V tection (/277V ) Short c t 240V	kA kA kA circuit cur	30 30 200A class J 30 rrent
Tap Conductor Protec UL508 / UL 60947-4-	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a at 480) prsepower ratings single-phase	t 480V t 600V tection (/277V ) Short c t 240V (/277V	kA kA kA irrcuit cur kA kA	30 30 200A class J 30 rent 30 30
Tap Conductor Protec UL508 / UL 60947-4-	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a at 480) prsepower ratings single-phase	t 480V t 600V tection (/277V ) Short of t 240V (/277V /-120V	kA kA sircuit cur kA kA HP	30 30 200A class J 30 rrent 30 30 1.5
Tap Conductor Prote UL508 / UL 60947-4- Maximum UL/CSA ho	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a at 480\ prsepower ratings single-phase 110\ 220\	t 480V t 600V tection (/277V ) Short c t 240V (/277V	kA kA kA irrcuit cur kA kA	30 30 200A class J 30 rent 30 30
Tap Conductor Prote UL508 / UL 60947-4- Maximum UL/CSA ho	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a at 480) prsepower ratings single-phase	t 480V t 600V tection (/277V ) Short of t 240V (/277V /-120V	kA kA sircuit cur kA kA HP	30 30 200A class J 30 rrent 30 30 1.5 3
Tap Conductor Prote UL508 / UL 60947-4- Maximum UL/CSA ho	a a pro ction 1 Manual Self Protected Combination Motor Controller (Type E a at 480) orsepower ratings single-phase 110\ 220\ orsepower ratings three-phase, 3-pole	t 480V t 600V tection (/277V ) Short of t 240V (/277V /-120V	kA kA sircuit cur kA kA HP	30 30 200A class J 30 rrent 30 30 1.5

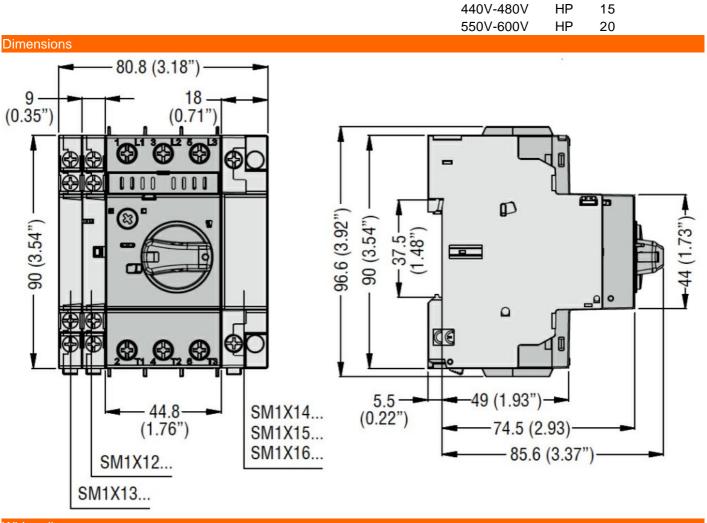
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400V, 17...23

**SM1RE2300** 

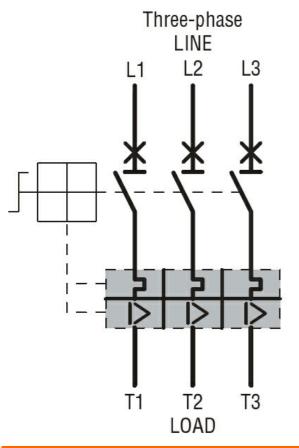


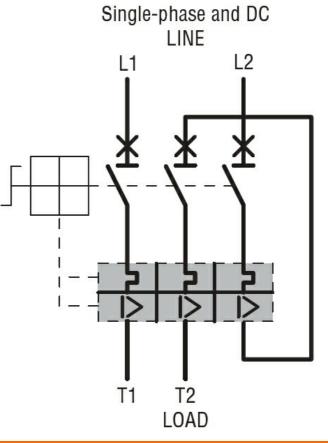
Wiring diagrams

## SM1RE2300



## MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 50KA AT 400V, 17...23A





Certifications and	d 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 classificati	on	
ETIM 8.0		EC000074 - Motor protection circuit-breaker