



Product designation				Motor protection circuit breaker
Product type designation				SM3R
Electrical features				Civicit
Number of poles			Nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				yes
Rated insulation voltage Ui IEC/EN			V	1000
Rated impulse withstand voltage Uimp	)		kV	6
Rated frequency	,		Hz	50/60
Thermal trip adjustment range			112	80100
Rated current (In)			A	100
Magnetic tripping			73	13 x ln
Operational short-circuit current break	ing capacity (Ics) at AC			10 X III
operational short offour our ent break		230V	kA	100
		400V	kA	38
		400V 440V	kA	30
		500V	kA	6
		690V	kA	4
Maximum short-circuit current breaking	n capacity (Icu) at AC	0001	10.1	•
Maximum chore chora carrone proaking		230V	kA	100
		400V	kA	50
		400V 440V	kA	40
		500V	kA	8
		690V	kA	5
Tripping class		0001	10.1	10A
IEC Utilization category				A
Operations				
Mechanical life			cycles	50000
Electrical life			cycles	25000
Mechanical features			oyoloo	20000
Tightening torque for terminals				
rightering torque for terminate		min	Nm	4.5
		max	Nm	4.5
		min	Ibin	4.4
		max	Ibin	4.4
Max number of wires simultaneously of	connectable		Nr.	2
Conductor section				
AWG/Kcmil				
		min		18
		max		3
Flexible c/w lu	ug conductor section			
	<b>.</b>	min	mm²	10
		max	mm²	50

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SM3R9900 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 80...100A

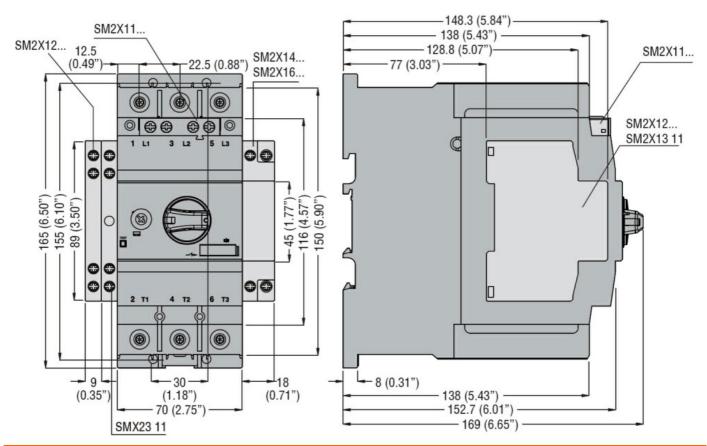
	Flexible with insulated spade lug conductor section	-	-	
		min	mm²	10
		max	mm²	50
Screwdriver				Allen 4mm
	ction according to IEC/EN 60529			IP20
Cable stripping lengh				
A 1 1 1 1 11 11 11 11	main	n circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+70
	Storage temperature		<b>. .</b>	
		min	°C	-50
	-	max	°C	+80
	Compensation temperature			
		min	°C	-50
		max	°C	+40
Max altitude			m	3000
Operating position				
		normal		Vertical plan
	alle	owable		Any
Fixing				Screw / DIN rai 35mm
				0011111
Weight			g	2200
			g	
UL technical data			g	
UL technical data	а	it 480V	g kA	
UL technical data		it 480V it 600V		2200
UL technical data	а		kA	2200 40
UL technical data Motor Disconnect	a pro	t 600V	kA	2200 40 10
UL technical data Motor Disconnect	a pro ion	t 600V tection	kA	2200 40 10 Fuse or CB
UL technical data Motor Disconnect	a pro ion a	t 600V	kA kA	2200 40 10 Fuse or CB 40
UL technical data Motor Disconnect	a pro ion a a	tt 600V tection tt 480V tt 600V	kA kA	2200 40 10 Fuse or CB 40 10
UL technical data Motor Disconnect Group Motor Installati	a pro ion a a pro	t 600V tection	kA kA kA	2200 40 10 Fuse or CB 40
UL technical data Motor Disconnect Group Motor Installati	a pro ion a a pro ction	tt 600V tection tt 480V tt 600V tection	kA kA kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB
UL technical data Motor Disconnect Group Motor Installati	a pro ion a a pro ction at 480	tt 600V tection tt 480V tt 600V tection	kA kA kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Prote	a pro ion a a pro ction at 480 at 600	tt 600V tection tt 480V tt 600V tection tr/277V tr/277V tr/247V	kA kA kA kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Prote	a pro ion a a pro ction ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E	tt 600V tection tt 480V tt 600V tection Y/277V Y/347V	kA kA kA kA kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Prote	a pro ion a a pro ction ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a	tt 600V tection tt 480V tt 600V tection t/277V t/277V t/347V t) Short c tt 240V	kA kA kA kA kA ircuit cui kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 rrent 100
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4-	a pro ion a a pro ction ction at 480\ at 600\ 1 Manual Self Protected Combination Motor Controller (Type E a at 480\	tt 600V tection tt 480V tt 600V tection t/277V t/277V t/347V t) Short c tt 240V	kA kA kA kA kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4-	a pro ion a a pro ction ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a at 480 borsepower ratings single-phase	tt 600V tection tt 480V tt 600V tection f/277V f/347V t) Short c tt 240V f/277V	kA kA kA kA kA irrcuit cui kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 Trent 100 40
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4-	a pro ion a a a pro ction ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a at 480 brsepower ratings single-phase	tt 600V tection tt 480V tt 600V tection t/277V t/347V t) Short c tt 240V t/277V t/277V	kA kA kA kA kA ircuit cui kA kA HP	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 rrent 100 40 10
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4- Maximum UL/CSA ho	a pro ion a a pro ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a at 480 Dissepower ratings single-phase 110 220	tt 600V tection tt 480V tt 600V tection f/277V f/347V t) Short c tt 240V f/277V	kA kA kA kA kA irrcuit cui kA kA	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 Trent 100 40
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4- Maximum UL/CSA ho	a pro ion a a pro ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a at 480 borsepower ratings single-phase 110 220 borsepower ratings three-phase, 3-pole	tt 600V tection tt 480V tt 600V tection t/277V t/347V t/277V t/277V t/277V t/277V t/277V t/220V t/240V	kA kA kA kA kA kA irrcuit cur kA kA HP HP	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 rrent 100 40 10 20
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4- Maximum UL/CSA ho	a pro ion a a pro ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a at 480 brsepower ratings single-phase 110 crsepower ratings three-phase, 3-pole	tt 600V tection tt 480V tt 600V tection (/277V (/347V t) Short c tt 240V (/277V (/277V /-120V /-240V /-208V	kA kA kA kA kA kA irrcuit cur kA kA HP HP HP	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 rrent 100 40 10 20 30
UL technical data Motor Disconnect Group Motor Installati Tap Conductor Protec UL508 / UL 60947-4- Maximum UL/CSA ho	a pro ion a a pro ction at 480\ at 600\ 1 Manual Self Protected Combination Motor Controller (Type E a at 480\ porsepower ratings single-phase 110\ 220\ porsepower ratings three-phase, 3-pole	tt 600V tection tt 480V tt 600V tection (/277V (/347V (/347V (/347V (/347V) (/347V (/277V) (/347V) (/347V) (/277V) (/277V) (/-120V) (/-208V) (/-208V) (/-240V)	kA kA kA kA kA kA hP HP HP HP	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 rrent 100 40 10 20 30 30 30
Maximum UL/CSA ho	a pro ion a a pro ction at 480 at 600 1 Manual Self Protected Combination Motor Controller (Type E a at 480) orsepower ratings single-phase 110 220 orsepower ratings three-phase, 3-pole	tt 600V tection tt 480V tt 600V tection (/277V (/347V t) Short c tt 240V (/277V (/277V /-120V /-240V /-208V	kA kA kA kA kA kA irrcuit cur kA kA HP HP HP	2200 40 10 Fuse or CB 40 10 Fuse or CB 40 10 rrent 100 40 10 20 30

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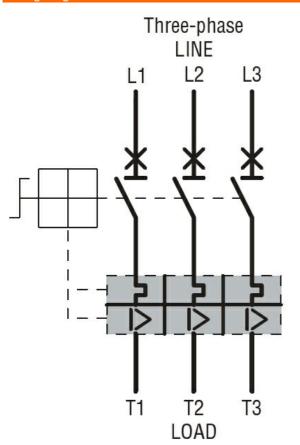
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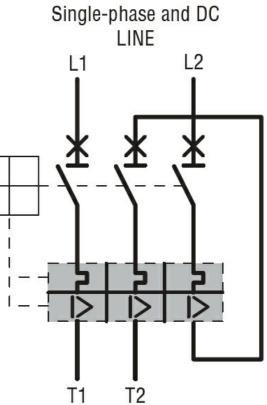


MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 80...100A



Wiring diagrams





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## Certifications and compliance Certifications

SM3R9900

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	CSA C22.2 n° 14	
	IEC/EN 60947-1	
	IEC/EN 60947-2	
	IEC/EN 60947-4-1	
	UL508	
Compliance		
	cULus	
	EAC	
ETIM classification		
		FC00074

**ETIM 8.0** 

EC000074 -Motor protection circuit-breaker