



Product designation			Motor protection circuit breaker
Product type designation			SM3R
Electrical features			OMOR
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			80100
Rated current (In)		А	100
Magnetic tripping			13 x ln
Power dissipation per pole			
	max	W	7
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	38
	440V	kA	30
	500V	kA	6
	690V	kA	4
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	40
	500V	kA	8
	690V	kA	5
Tripping class			10A
IEC Utilization category			А
Operations			
Mechanical life		cycles	50000
Electrical life		cycles	25000
Mechanical features			
Tightening torque for terminals			
	min	Nm	4.5
	max	Nm	4.5
	min	lbin	4.4
	max	lbin	4.4
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		18
	max		3
Flexible c/w lug conductor section			

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ENERGY AND AUTOMATION

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

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	min	mm²	10
	max	mm²	50
	Flexible with insulated spade lug conductor section		
	min	mm²	10
	max	mm²	50
Screwdriver			Allen 4mm
	tion according to IEC/EN 60529		IP20
Cable stripping lenght			4
A mala i quat a qua diti qua q	main circuit	mm	1
Ambient conditions			
Temperature	Operating temperature		
	Operating temperature	°C	-20
	min	°C	-20 +70
	Starage temporature	U	+70
	Storage temperature min	°C	-50
	max	°C	-50 +80
	Compensation temperature	C	TUU
	min	°C	-50
	max	°C	+40
Max altitude	11103	 	3000
Operating position			3000
operating position	normal		Vertical plan
	allowable		Any
			Screw / DIN rail
Fixing			35mm
Weight		g	2200
UL technical data		5	
Motor Disconnect			
	at 480V	kA	40
	at 600V	kA	10
	protection		Fuse or CB
UL technical data	•		
	Group Motor Installation at 480V	kA	40
	Group Motor Installation at 600V	kA	10
	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect	ion		
	at 480Y/277V	kA	40
	at 600Y/347V	kA	10
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short of	circuit cu	rrent
	at 240V	kA	100
	at 480Y/277V	kA	40
Maximum UL/CSA hors	sepower ratings single-phase		
	110V-120V	HP	10
	220V-240V	HP	20
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole		
	200V-208V	HP	30
	220V-240V	HP	30
	440V-480V	HP	75
	550V-600V	HP	100
Dimensions			

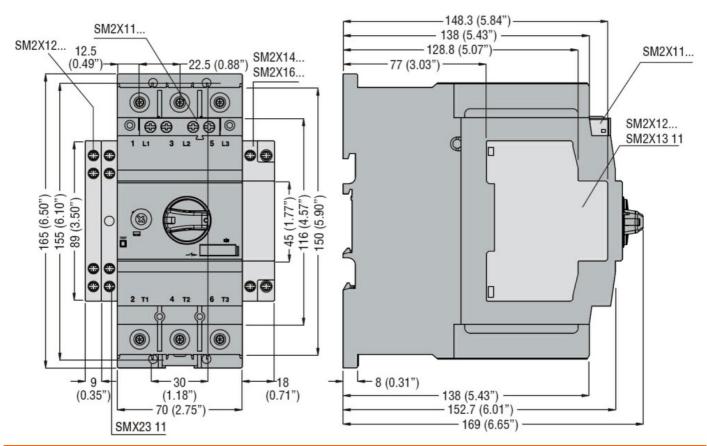
Dimensions

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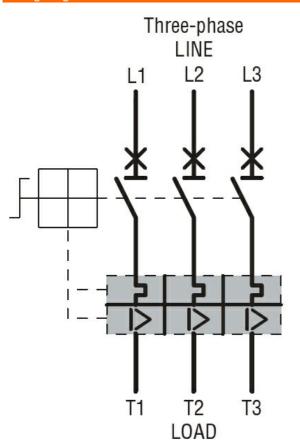
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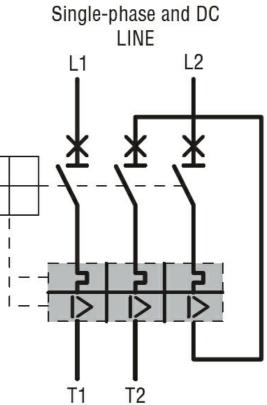


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Wiring diagrams





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Certifications and compliance Certifications

SM3R9900

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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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