



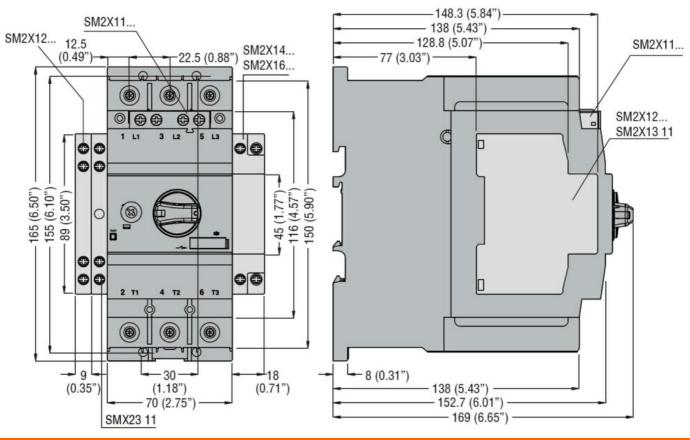
Product designation			Motor protection circuit breaker
Product type designation Electrical features			SM3R
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			Yes
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			80100
Rated current (In)		Α	100
Magnetic tripping			13 x ln
Operational short-circuit current breaking capacity (Ics) at AC			
3 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	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			A
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	Ibin	4.4
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		18
	max		3
Flexible c/w lug conductor section			
	min	mm²	10
	max	mm²	50



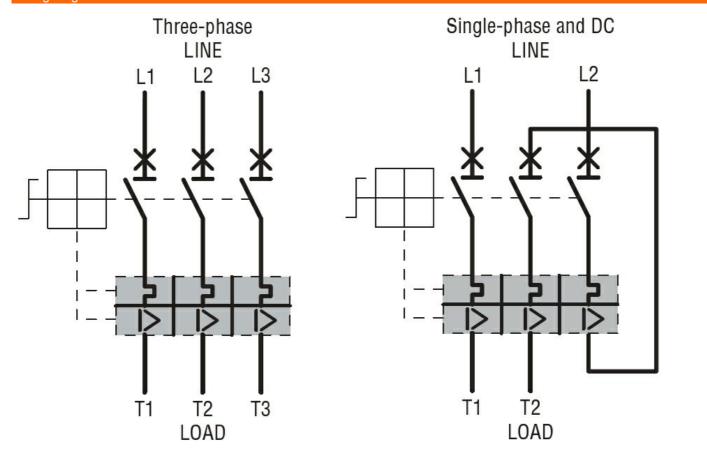
	Flexible with insulated spade lug conductor			
		min	mm²	10
		max	mm²	50
Screwdriver				Allen 4mm
	ion according to IEC/EN 60529			IP20
Cable stripping lenght				
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+70
	Storage temperature			
		min	°C	-50
		max	°C	+80
	Compensation temperature			
		min	°C	-50
		max	°C	+40
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	2200
UL technical data				
Motor Disconnect				
		at 480V	kA	40
		at 600V	kA	10
		protection		Fuse or CB
Group Motor Installatio	n			
		at 480V	kA	40
		at 600V	kA	10
		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	ircuit cur	rent
		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 hors	sepower ratings three-phase, 3-pole			
		200V-208V	HP	30
		220V-240V	HP	30
		440V-480V	HP	75
		550V-600V	HP	100
Dimensions				



ENERGY AND AUTOMATION



Wiring diagrams



Certifications and compliance

Certifications



ENERGY AND AUTOMATION

SM3R9900

Motor protection circuit breaker, IEC breaking capacity Icu 50kA at 400V, 80...100A

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

ETIM classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker