

ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 46...63A



Product designation			Motor protection circuit breaker
Product type designation			SM2R
Electrical features		N	
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			4563
Rated current (In)		Α	63
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	50
	440V	kA	27
	500V	kA	8
	690V	kA	5
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	35
	500V	kA	10
	690V	kA	5
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	50000
Electrical life		cycles	25000
Mechanical features		oy oloo	20000
Tightening torque for terminals			
rightoning torquo for tornimalo	min	Nm	4.5
	max	Nm	4.5
	min	Ibin	3.3
	max	Ibin	3.3
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		ı VI.	
AWG/Kcmil			
/ W O/ROHIII	min		18
	max		3
Flexible w/o lug conductor section	παλ		
I IEVINIE MIO INÀ COMUNCION SECTION			



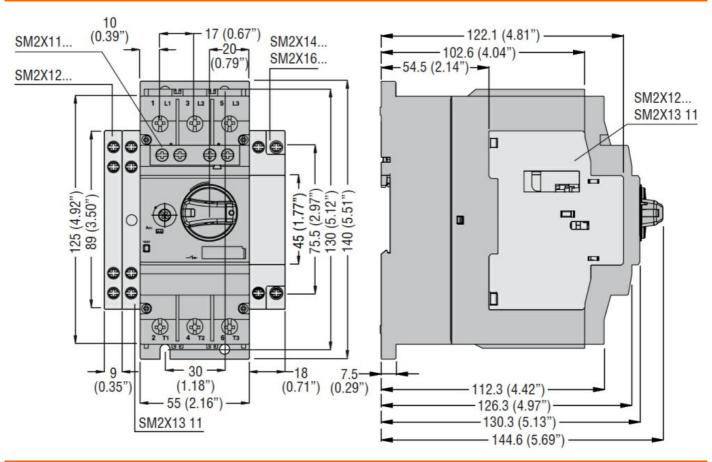


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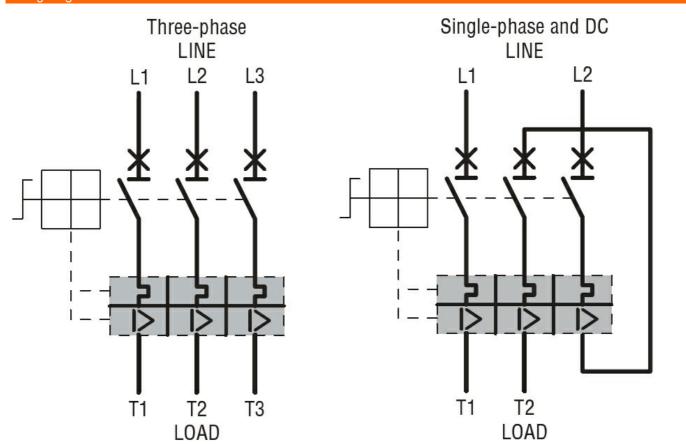
		min	mm²	0.75
		max	mm²	25
	Flexible c/w lug conductor section			
		min	mm²	0.75
		max	mm²	25
	Flexible with insulated spade lug conduc	tor section		
		min	mm²	0.75
		max	mm²	25
Screwdriver				PZ2
Power terminal pro	otection according to IEC/EN 60529			IP20
Cable stripping len	ght			
		main circuit	mm	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
ixing				Screw / DIN rail 35mm
Weight			g	1000
JL technical data				
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	10
		protection		Fuse or CB
Group Motor Instal	lation	•		
-		at 480V	kA	50
		at 600V	kA	10
		protection		Fuse or CB
Tap Conductor Pro	otection	•		
•		at 480Y/277V	kA	50
		at 600Y/347V	kA	10
JL508 / UL 60947	-4-1 Manual Self Protected Combination Motor			
		at 240V	kA	100
		at 480Y/277V	kA	50
Maximum UI /CSA	horsepower ratings single-phase		•	
	go omgio pridoo	110V-120V	HP	5
		220V-240V	HP	10
		U VTU V	4 11	
Maximum III /CSA	horsenower ratings three-phase 3-pole			
Maximum UL/CSA	horsepower ratings three-phase, 3-pole			20
Maximum UL/CSA	horsepower ratings three-phase, 3-pole	200V-208V	HP	20
Maximum UL/CSA	horsepower ratings three-phase, 3-pole	200V-208V 220V-240V	HP HP	20
Maximum UL/CSA	horsepower ratings three-phase, 3-pole	200V-208V	HP	

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Dimensions



Wiring diagrams





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SM2R6300

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Certifications and c	ompliance
Certifications	
	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 classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker