

## MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 35...50A



Product designation			Motor protection circuit breaker
Product type designation			SM2R
Electrical features			
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			3450
Rated current (In)		Α	50
Magnetic tripping			13 x In
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			
Tightening torque for terminals			
	min	Nm	4.5
	max	Nm	4.5
	min	lbin	3.3
	max	lbin	3.3
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		18
	max		3
Flexible w/o lug conductor section			



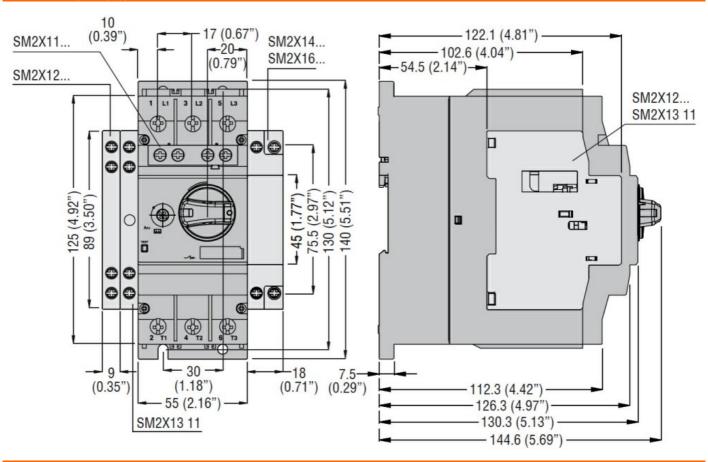


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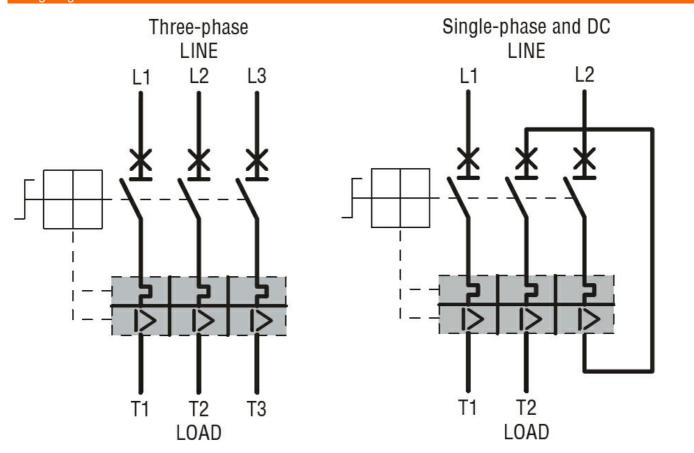
		min	mm²	0.75
		max	mm²	25
	Flexible c/w lug conductor section			
		min	mm²	0.75
		max	mm²	25
	Flexible with insulated spade lug conduct	or section		
		min	mm²	0.75
		max	mm²	25
Screwdriver				PZ2
	tection according to IEC/EN 60529			IP20
Cable stripping leng	yht			
		main circuit	mm	1
Ambient conditions				
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
Veight			g	1000
JL technical data				
Motor Disconnect				
		at 480V	kA	50
		at 600V	kA	10
		protection		Fuse or CB
Group Motor Installa	ation	•		
-		at 480V	kA	50
		at 600V	kA	10
		protection		Fuse or CB
Tap Conductor Prot	tection	•		
		at 480Y/277V	kA	50
		at 600Y/347V	kA	10
JL508 / UL 60947-	4-1 Manual Self Protected Combination Motor	Controller (Type E) Short of	ircuit cui	rrent
		at 240V	kA	100
		at 480Y/277V	kA	50
Maximum UL/CSA	horsepower ratings single-phase			
	, 5 5-1	110V-120V	HP	3
		220V-240V	HP	10
	horsepower ratings three-phase, 3-pole	223 7 2 10 7		
Maximum UI /C.S.A.I				
Maximum UL/CSA	mercepenter raminge amos privates, e perc	200\/-208\/	HP	15
Maximum UL/CSA I	notosponor tamigo unos pilaco, o pero	200V-208V 220V-240V	HP HP	15 15
Maximum UL/CSA I	notosponor ramigo unos priaco, o poro	220V-240V	HP	15
Maximum UL/CSA I	notosponor ramigo unos priaco, o poro			

**ENERGY AND AUTOMATION** 

#### Dimensions [mm (in)]



### Wiring diagrams





**ENERGY AND AUTOMATION** 

#### SM2R5000

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 35...50A

Certifications and 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 classification				

ETIM 8.0

EC000074 -Motor protection circuit-breaker