ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 50KA AT 400V, 24...32A



Product designation			Motor protection circuit breaker
Product type designation Electrical features			SM1R
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			2432
Rated current (In)		Α	32
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	2.49
	max	W	4.42
Operational short-circuit current breaking capacity (Ics) at AC			
3,	230V	kA	100
	400V	kA	25
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
3 1 , ()	230V	kA	100
	400V	kA	50
	440V	kA	10
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8



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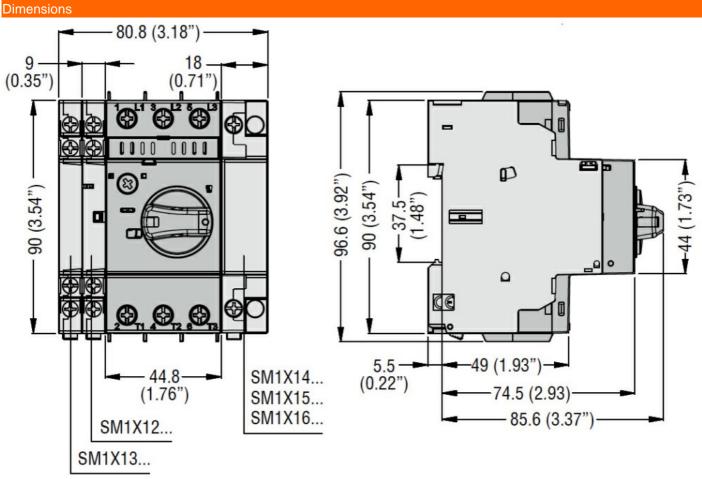
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Screwdriver			PH2
Power terminal prote	ction according to IEC/EN 60529		IP20 on front
Cable stripping lengh	t		
	main circuit	mm	12
Ambient conditions			
Temperature			
	Operating temperature		
	min	°C	-20
	max	°C	+60
	Storage temperature	0.0	50
	min	°C	-50
	max	°C	+80
	Compensation temperature	00	00
	min	°C	-20
Maxaltituda	max	°C	+50
Max altitude		m	3000
Operating position	no manal		\/owtical mlan
	normal allowable		Vertical plan
	allowable		Any Screw / DIN rail
Fixing			35mm
Weight		g	390
UL technical data		9	000
Motor Disconnect			
Motor Biodomioot	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
	protection		200A class J
Group Motor Installati	·		
	on		
		kA	30
	ion at 240V at 480V	kA kA	30 30
	at 240V at 480V	kA	30
	at 240V at 480V at 600V		30 30
Tap Conductor Prote	at 240V at 480V at 600V protection	kA	30
Tap Conductor Protec	at 240V at 480V at 600V protection	kA	30 30
	at 240V at 480V at 600V protection	kA kA kA	30 30 200A class J
	at 240V at 480V at 600V protection ction at 480Y/277V	kA kA kA circuit cu	30 30 200A class J
	at 240V at 480V at 600V protection ction at 480Y/277V 1 Manual Self Protected Combination Motor Controller (Type E) Short of	kA kA kA	30 30 200A class J 10 rrent
UL508 / UL 60947-4-	at 240V at 480V at 600V protection ction at 480Y/277V 1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V	kA kA kA circuit cu kA	30 30 200A class J 10 rrent 10
UL508 / UL 60947-4-	at 240V at 480V at 600V protection ction at 480Y/277V 1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V	kA kA kA circuit cu kA	30 30 200A class J 10 rrent 10 10
	at 240V at 480V at 600V protection ction at 480Y/277V 1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V orsepower ratings single-phase	kA kA kA circuit cu kA kA	30 30 200A class J 10 rrent 10 10
UL508 / UL 60947-4- Maximum UL/CSA ho	at 240V at 480V at 600V protection ction at 480Y/277V 1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V orsepower ratings single-phase 110V-120V 220V-240V	kA kA kA circuit cu kA kA	30 30 200A class J 10 rrent 10 10
UL508 / UL 60947-4- Maximum UL/CSA ho	at 240V at 480V at 600V protection ction at 480Y/277V 1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V orsepower ratings single-phase	kA kA kA circuit cu kA kA	30 30 200A class J 10 rrent 10 10

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440V-480V HP 20

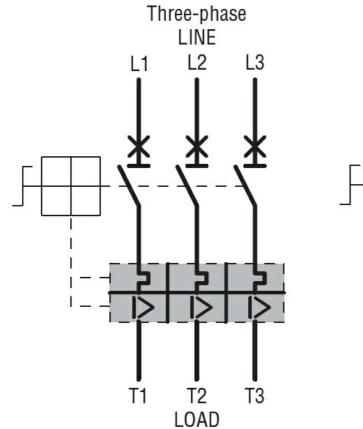
550V-600V HP 30

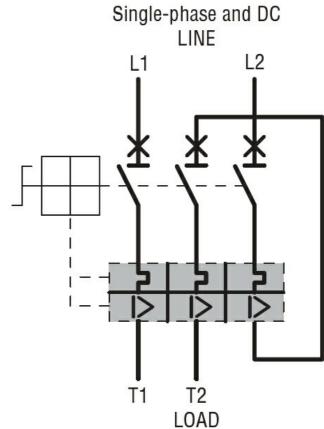


Wiring diagrams



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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