electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 4...6.5A

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Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features			
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			46.5
Rated current (In)		Α	6.5
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.75
	max	W	1.99
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	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	2	
	min	mm²	1
0	max	mm²	10
Screwdriver	'		PH2
	tion according to IEC/EN 60529		IP20
Cable stripping lenght	main circuit	mm	12
Ambient conditions	main circuit	mm	12
Temperature			
romporatur e	Operating temperature		
	min	°C	-20
	max	°C	+60
	Storage temperature		
	min	°C	-50
	max	°C	+80
	Compensation temperature		
	min	°C	-20
	max	°C	+50
Max altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		Any
Fixing			Screw / DIN rail
			35mm
Weight		g	390
UL technical data			
Motor Disconnect			
	at 480V	kA	30
	at 600V	kA	30
III to obrigal data	protection		Fuse or CB
UL technical data	Cratin Matar Installation at 400V	I. A	20
	Group Motor Installation at 480V Group Motor Installation at 600V	kA kA	30 30
	Group Motor Installation protection	KA	Fuse or CB
Tap Conductor Protect	·		1 436 01 OD
Tap Conductor Frotect	at 480Y/277V	kA	30
	at 600Y/347V	kA kA	30
 UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short of		
J_000, OL 00071 7 1	at 240V	kA	65
	at 480Y/277V	kA	65
	at 600Y/347V	kA	30
Maximum UL/CSA hor	sepower ratings single-phase		
	110V-120V	HP	1/4
	220V-240V	HP	1/2
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole		
	200V-208V	HP	1.5
	220V-240V	HP	1.5
			-

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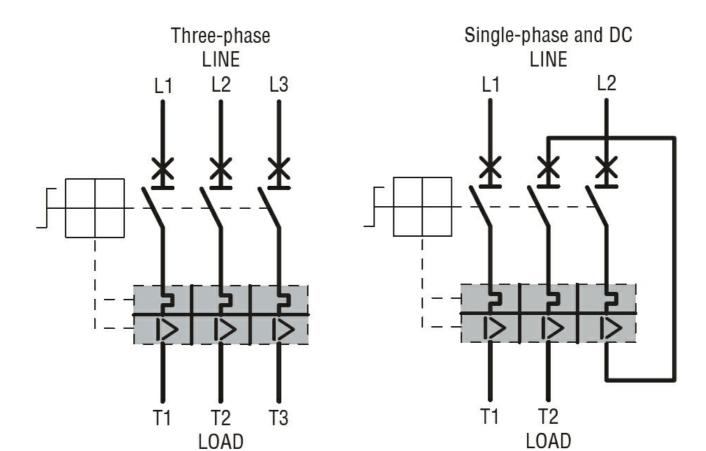
440V-480V HP 3 550V-600V HP 5

Dimensions 80.8 (3.18") -9 (0.35"D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93")-5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... -85.6 (3.37") SM1X12... SM1X13...

Wiring diagrams

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MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 4...6.5A



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