ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A



Product designation				Motor protection circuit breaker
Product type designat	ion			SM1R
Electrical features				
Number of poles			Nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				yes
Rated insulation voltage	-		V	690
Rated impulse withsta		kV	6	
Rated frequency			Hz	50/60
Thermal trip adjustmen	nt range			0.40.63
Rated current (In)			Α	0.63
Magnetic tripping				13 x ln
Total power dissipation	n		W	1.95
Operational short-circu	uit current breaking capacity (Ics) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Maximum short-circuit	current breaking capacity (Icu) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Tripping class				10A
IEC Utilization categor	·V			A
Operations	,			
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features			0,0.00	
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	22
		max	lbin	26.5
Max number of wires	simultaneously connectable	Тисх	Nr.	2
Conductor section	Simulationary controllable			—
20.1440101 00011011	AWG/Kcmil			
	7.07 O/10011111	min		16
		max		8
	Flexible w/o lug conductor section	IIIdx		<u> </u>
	TIONING W/O TAY COTTAGED TO SECTION	min	mm²	1
		1111[1	111111	1

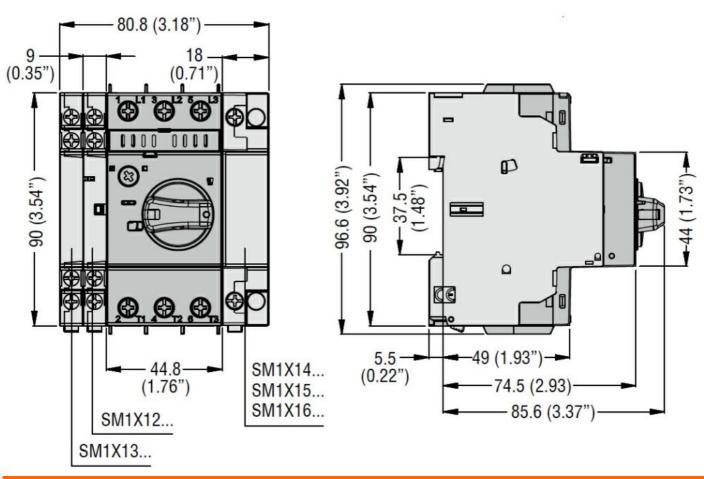


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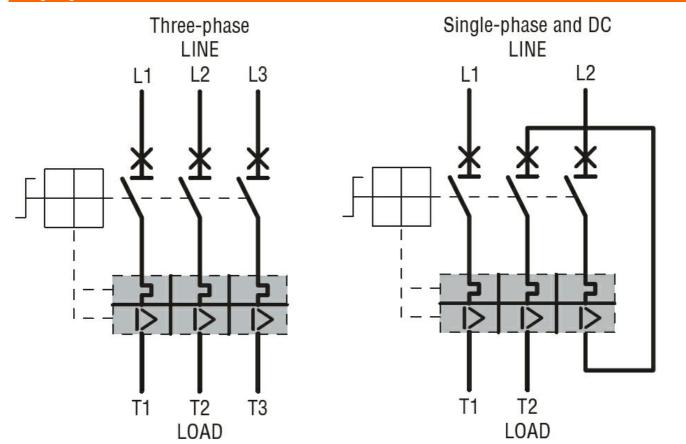
electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.4...0.63A

	Flexible c/w lug conductor section		
	min	mm²	1
	Flexible with insulated spade lug conductor section		
	min	mm²	1
Screwdriver			PH2
	tion according to IEC/EN 60529		IP20
Cable stripping lenght	ponio nivovit	m m	4
Ambient conditions	main circuit	mm	1
Temperature			
remperature	Operating temperature		
	operating temperature min	°C	-20
	max	°C	+60
	Storage temperature		100
	min	°C	-50
	max	°C	+80
	Compensation temperature		
	min	°C	-20
	max	°C	+50
Max altitude	mex	m	3000
Operating position			
operaning peemen	normal		Vertical plan
	allowable		Any
Fig.	anomable		Screw / DIN rail
Fixing			35mm
Weight		g	320
UL technical data			
Motor Disconnect			
Motor Disconnect	at 480V	kA	50
Motor Disconnect	at 480V at 600V	kA kA	50 50
Motor Disconnect			
Motor Disconnect Group Motor Installation	at 600V protection		50
	at 600V protection		50
	at 600V protection	kA	50 Fuse or CB
Group Motor Installatio	at 600V protection on at 480V at 600V protection	kA kA	50 Fuse or CB 50
	at 600V protection on at 480V at 600V protection on at 480V at 600V protection on tion	kA kA	50 Fuse or CB 50 50 Fuse or CB
Group Motor Installatio	at 600V protection on at 480V at 600V protection tion at 480Y/277V	kA kA kA	50 Fuse or CB 50 50 Fuse or CB
Group Motor Installation	at 600V protection on at 480V at 600V protection on at 480V at 600V protection on at 480Y/277V at 600Y/347V	kA kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50
Group Motor Installation	at 600V protection on at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short	kA kA kA kA circuit cu	50 Fuse or CB 50 50 Fuse or CB 50 fuse or CB
Group Motor Installation	at 600V protection on at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V	kA kA kA kA circuit cu	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50
Group Motor Installation	at 600V protection at 480V at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V	kA kA kA kA circuit cu kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1	at 600V protection at 480V at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V	kA kA kA kA circuit cu	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1	at 600V protection at 480V at 600V protection at 480V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase	kA kA kA circuit cu kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1	at 600V protection at 480V at 600V protection at 480V/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V	kA kA kA circuit cu kA kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V 220V-240V	kA kA kA circuit cu kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V 220V-240V sepower ratings three-phase, 3-pole	kA kA kA circuit cu kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50 50 -
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V 220V-240V sepower ratings three-phase, 3-pole	kA kA kA circuit cu kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50 50 -
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V 220V-240V sepower ratings three-phase, 3-pole 200V-208V 220V-240V	kA kA kA circuit cu kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50 50 -
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V 220V-240V sepower ratings three-phase, 3-pole 200V-208V 220V-240V 440V-480V	kA kA kA circuit cu kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50 50 -
Group Motor Installation Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 600V protection at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V sepower ratings single-phase 110V-120V 220V-240V sepower ratings three-phase, 3-pole 200V-208V 220V-240V	kA kA kA circuit cu kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50 50 -





Wiring diagrams





SM1R0063

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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