

# MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.63...1A



Product designation				SM1P
Product type designat	ion			Motor protective
				circuit breaker
Electrical features				
Number of poles			nr.	3
Magnetic protection				Yes
Thermal protection				Yes
Phase failure detectio				Yes
Rated insulation voltage	-		V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Rated frequency			Hz	50/60
Thermal trip adjustme	nt range			0,631
Rated current (In)			Α	1
Magnetic tripping				13 x ln
	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			
	can an area in great gre	230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Operations		090 V	N/A	100
Mechanical life			Cycles	100,000
Electrical life			Cycles	100,000
Mechanical feautures			Oycics	100,000
Tightening torque for t	rerminals			
rightening torque for t	Cirillias	min	Nm	3
			Nm	3
		max	lbft	2
		min		
may number of wires	oimultan a qualiv a anna atabla	max	lbft	2
	simultaneously connectable		nr.	2
Conductor section	A1A/O			
	AWG			4.0
		min		16
	El al de la companya	max		8
	Flexible w/o lug conductor section		_	
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1



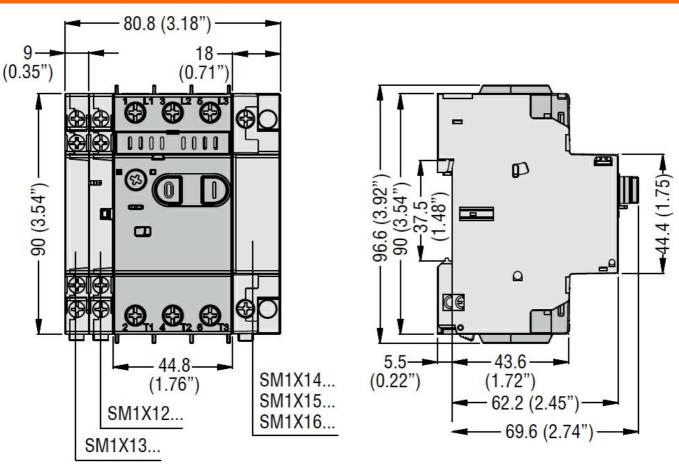


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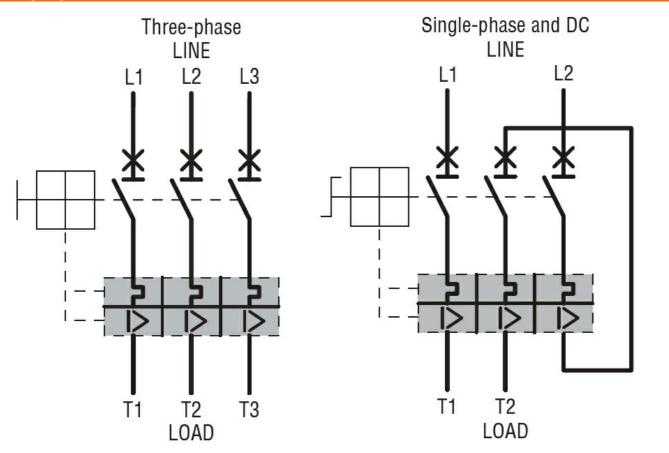
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Screwdriver			PH2
Power terminal prote	ction according to IEC/EN 60529		IP20
Cable stripping lengh	nt		
	main circuit	mm	1
Ambient conditions			
Temperature			
	Operating temperature		
	min	°C	-20
	max	°C	60
	Storage temperature		
	min	°C	-50
	max	°C	80
	Compensation temperature	2-	22
	min	°C	-20
NA - 109 1	max	°C	50
Max altitude		m	3,000
Operating position			
	normal		Su piano verticale
	allowable		Qualsiasi
Mounting			A vite / profilato
\\/aight			omega 35mm
Weight UL technical data		g	280
	1 Manual Motor Controller - Short circuit current		
	Tividinal Wotor Controller Chort choult current		
Motor Disconnect		LΛ	50
	at 240V	kA	50
	at 240V at 480V	kA	50
	at 240V at 480V at 600V		50 50
Motor Disconnect	at 240V at 480V at 600V protection	kA	50
	at 240V at 480V at 600V protection	kA kA	50 50 Fuse or CB
Motor Disconnect	at 240V at 480V at 600V protection ion at 240V	kA kA kA	50 50 Fuse or CB
Motor Disconnect	at 240V at 480V at 600V protection ion at 240V at 480V	kA kA kA	50 50 Fuse or CB 50 50
Motor Disconnect	at 240V at 480V at 600V protection ion at 240V at 600V at 480V at 600V	kA kA kA	50 50 Fuse or CB 50 50
Motor Disconnect  Group Motor Installat	at 240V at 480V at 600V protection  ion  at 240V at 600V at 480V at 600V protection	kA kA kA	50 50 Fuse or CB 50 50
Motor Disconnect	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 600V protection	kA kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
Motor Disconnect  Group Motor Installat	at 240V at 480V at 600V protection  ion  at 240V at 480V at 600V at 480V at 600V protection  ction  at 480Y/277V	kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
Motor Disconnect  Group Motor Installat  Tap Conductor Prote	at 240V at 480V at 600V protection  ion  at 240V at 240V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V	kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
Motor Disconnect  Group Motor Installat  Tap Conductor Prote	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short	kA kA kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50
Motor Disconnect  Group Motor Installat  Tap Conductor Prote	at 240V at 480V at 600V protection  ion  at 240V at 600V protection  at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V	kA kA kA kA kA circuit cu	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50
Motor Disconnect  Group Motor Installat  Tap Conductor Prote	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 480Y/277V	kA kA kA kA kA circuit cu kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V	kA kA kA kA kA circuit cu	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V  orsepower ratings single-phase	kA kA kA kA circuit cu kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V  orsepower ratings single-phase  at 110V-120V	kA kA kA kA circuit cu kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V  orsepower ratings single-phase  at 110V-120V at 220V-240V	kA kA kA kA circuit cu kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V  orsepower ratings single-phase  at 110V-120V at 220V-240V orsepower ratings three-phase, 3-pole	kA kA kA kA circuit cu kA kA hp	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection ion  at 240V at 480V at 480V at 600V protection at 480V/277V at 600V/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V at 600Y/347V or sepower ratings single-phase  at 110V-120V at 220V-240V or sepower ratings three-phase, 3-pole  at 200V-208V	kA kA kA kA circuit cu kA kA hp	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1 2
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V  orsepower ratings single-phase  at 110V-120V at 220V-240V orsepower ratings three-phase, 3-pole	kA kA kA kA circuit cu kA kA hp hp	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1 2
Motor Disconnect  Group Motor Installat  Tap Conductor Prote  UL508 / UL 60947-4-	at 240V at 480V at 600V protection  ion  at 240V at 480V at 600V protection  ction  at 480Y/277V at 600Y/347V  1 Manual Self Protected Combination Motor Controller (Type E) Short at 240V at 480Y/277V at 600Y/347V  orsepower ratings single-phase  at 110V-120V at 220V-240V  orsepower ratings three-phase, 3-pole  at 200V-208V at 220V-240V	kA kA kA kA circuit cu kA kA hp	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1 2

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### **Dimensions**



## Wiring diagrams







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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 6 classification	on a second control of the second control of the second control of the second control of the second control of	