

# MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,



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	ind voltage Uimp		kV	6
Rated frequency			Hz	50/60
Thermal trip adjustme	nt range			11,6
Rated current (In)			Α	2
Magnetic tripping				13 x ln
Operational short-circ	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
Operations				
Mechanical life			Cycles	100,000
Electrical life			Cycles	100,000
Mechanical feautures				
Tightening torque for t	erminals			
		min	Nm	3
		max	Nm	3
		min	lbft	2
		max	lbft	2
max number of wires	simultaneously connectable		nr.	2
Conductor section	·			
	AWG			
		min		16
		max		8
	Flexible w/o lug conductor section			
	•	min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
	<b>3</b>	min	mm²	1



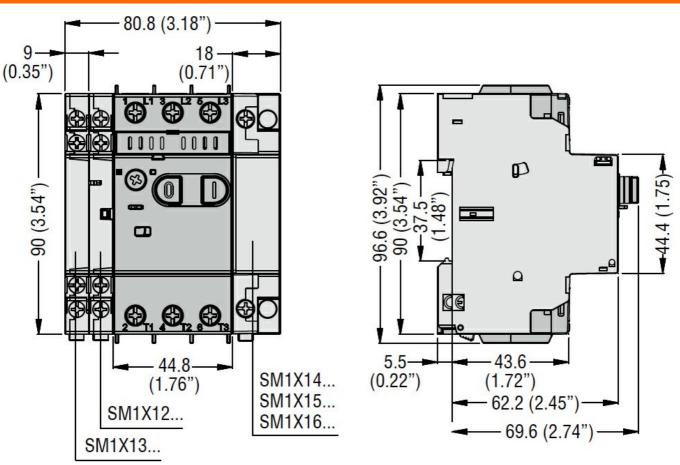


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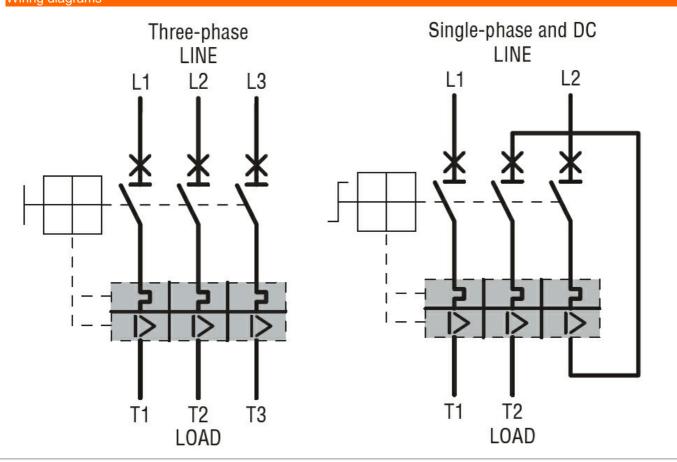
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Screwdriver			PH2
	tion according to IEC/EN 60529		IP20
Cable stripping lenght			
	main circuit	mm	1
Ambient conditions			
Temperature			
	Operating temperature	°C	-20
	min	°C	-20 60
	Storage temporature	<u> </u>	00
	Storage temperature min	°C	-50
	max	°C	-50 80
	Compensation temperature		00
	min	°C	-20
	max	°C	50
Max altitude	Пих	 m	3,000
Operating position			0,000
operating position	normal		Su piano verticale
	allowable		Qualsiasi
	anemasis		A vite / profilato
Mounting			omega 35mm
Weight		g	280
UL technical data		J	
/ /. /			
UL508 / UL60947-4-1	Manual Motor Controller - Short circuit current		
UL508 / UL60947-4-1 Motor Disconnect	Manual Motor Controller - Short circuit current		
	Manual Motor Controller - Short circuit current  at 240V	kA	50
		kA kA	50 50
	at 240V		
	at 240V at 480V	kA	50
	at 240V at 480V at 600V protection	kA	50 50 Fuse or CB
Motor Disconnect	at 240V at 480V at 600V protection on at 240V	kA kA kA	50 50 Fuse or CB
Motor Disconnect	at 240V at 480V at 600V protection on at 240V at 600V at 600V at 480V	kA kA kA	50 50 Fuse or CB 50 50
Motor Disconnect	at 240V at 480V at 600V protection on at 240V at 600V at 480V at 600V	kA kA kA	50 50 Fuse or CB 50 50
Motor Disconnect  Group Motor Installation	at 240V at 480V at 600V protection on at 240V at 480V at 480V at 600V protection	kA kA kA	50 50 Fuse or CB 50 50
Motor Disconnect	at 240V at 480V at 600V protection on at 240V at 480V at 600V protection tion	kA kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
Motor Disconnect  Group Motor Installation	at 240V at 480V at 600V protection on at 240V at 480V at 480V at 600V protection tion at 480Y/277V	kA kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
Motor Disconnect  Group Motor Installation  Tap Conductor Protect	at 240V at 480V at 600V protection  on  at 240V at 480V at 600V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V	kA kA kA kA kA	50 50 Fuse or CB 50 50 Fuse or CB
Motor Disconnect  Group Motor Installation  Tap Conductor Protect	at 240V at 480V at 600V protection on at 240V at 480V at 480V at 480V at 600V protection tion at 480Y/277V at 600Y/347V Manual Self Protected Combination Motor Controller (Type E) Short of	kA kA kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50
Motor Disconnect  Group Motor Installation  Tap Conductor Protect	at 240V at 480V at 600V protection on at 240V at 480V at 480V at 480V at 600V protection  tion at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of 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 Installation  Tap Conductor Protect	at 240V at 480V at 600V protection  at 240V at 600V protection  at 240V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 480Y/277V	kA kA kA kA kA circuit cui	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50
Group Motor Installation  Tap Conductor Protect  UL508 / UL 60947-4-1	at 240V at 480V at 600V protection on  at 240V at 480V at 480V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of 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
Group Motor Installation  Tap Conductor Protect  UL508 / UL 60947-4-1	at 240V at 480V at 600V protection on at 240V at 480V at 480V at 480V at 600V protection  tion at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  resepower ratings single-phase	kA kA kA kA kA circuit cur kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50
Group Motor Installation  Tap Conductor Protect  UL508 / UL 60947-4-1	at 240V at 480V at 600V protection  at 240V at 480V at 480V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  respower ratings single-phase  at 110V-120V	kA kA kA kA kA circuit cur kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50
Motor Disconnect  Group Motor Installation  Tap Conductor Protect  UL508 / UL 60947-4-1  Maximum UL/CSA hor	at 240V at 480V at 600V protection  on  at 240V at 480V at 480V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  respower ratings single-phase  at 110V-120V at 220V-240V	kA kA kA kA kA circuit cur kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50
Motor Disconnect  Group Motor Installation  Tap Conductor Protect  UL508 / UL 60947-4-1  Maximum UL/CSA hor	at 240V at 480V at 600V protection  at 240V at 480V at 480V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  rsepower ratings single-phase  at 110V-120V at 220V-240V	kA kA kA kA circuit cur 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 Installation  Tap Conductor Protect  UL508 / UL 60947-4-1  Maximum UL/CSA hor	at 240V at 480V at 600V protection  at 240V 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 of at 240V at 480Y/277V at 600Y/347V  respower ratings single-phase  at 110V-120V at 220V-240V  respower ratings three-phase, 3-pole  at 200V-208V	kA kA kA kA circuit cur 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 Installation  Tap Conductor Protect  UL508 / UL 60947-4-1  Maximum UL/CSA hor	at 240V at 480V at 600V protection  at 240V at 480V at 480V at 600V protection  tion  at 480Y/277V at 600Y/347V  Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  respower ratings single-phase  at 110V-120V at 220V-240V  respower ratings three-phase, 3-pole  at 200V-208V at 220V-240V	kA 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 Installation  Tap Conductor Protect  UL508 / UL 60947-4-1  Maximum UL/CSA hor	at 240V at 480V at 600V protection  at 240V 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 of at 240V at 480Y/277V at 600Y/347V  respower ratings single-phase  at 110V-120V at 220V-240V  respower ratings three-phase, 3-pole  at 200V-208V	kA kA kA kA circuit cur kA kA hp	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1 2



#### **Dimensions**



### Wiring diagrams







**ENERGY AND AUTOMATION** 

### MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,

Certifications and o	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 state of the	