# MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.25...0.4A



Product designation				SM1P
Product type designat	tion			Motor protective
				circuit breaker
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	and voltage Uimp		kV	6
Rated frequency			Hz	50/60
Thermal trip adjustme	nt range			0,250,4
Rated current (In)			Α	-
Magnetic tripping				13 x ln
	uit current breaking capacity (Ics) at AC			<del>-</del>
•	<b>0</b> , , ,	230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Maximum short-circuit	t current breaking capacity (Icu) at AC			
	( con con a con mig cop accid	230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Operations		0301	10.1	100
Mechanical life			Cycles	100,000
Electrical life			Cycles	100,000
Mechanical feautures			Cycloc	100,000
Tightening torque for t	terminals			
rigintorning torquo for	ion maio	min	Nm	3
		max	Nm	3
		min	lbft	2
		max	lbft	2
may number of wires	simultaneously connectable	max	nr.	2
Conductor section	omataneodoly connectable		111.	
Conductor Coulon	AWG			
	AWO	min		16
		max		8
	Flexible w/o lug conductor section	IIIdX		<u> </u>
	i levible min lag colladelol section	min	mm²	1
		min		1
	Florible of the productor coefficia	max	mm²	10
	Flexible c/w lug conductor section	!	mm²	1
		min	mm²	1



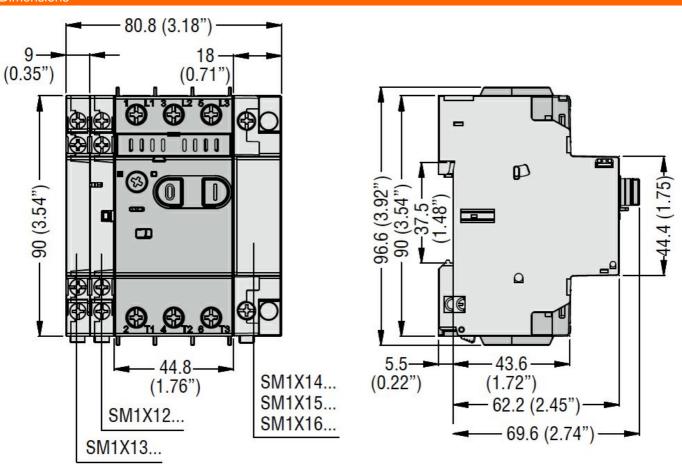
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Flexible with insulated spade lug conductor section	mm²	10
min	mm²	1
max	mm²	10
Screwdriver		PH2
Power terminal protection according to IEC/EN 60529		IP20
Cable stripping lenght		
main circuit	mm	1
Ambient conditions		
Temperature		
Operating temperature		
min	°C	-20
max	°C	60
Storage temperature	0.0	
min	°C	-50
Commonation town eveture	°C	80
Compensation temperature	°C	20
min	°C	-20 50
Max altitude max		3,000
	m	3,000
Operating position		Cu niono verticolo
normal allowable		Su piano verticale Qualsiasi
allowable		A vite / profilato
Mounting		omega 35mm
Weight	g	280
UL technical data	9	200
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect		
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current	kA	50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current Motor Disconnect	kA kA	50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V		
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V	kA	50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V	kA	50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection	kA	50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation	kA kA	50 50 Fuse or CB
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V	kA kA kA	50 50 Fuse or CB
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V	kA kA kA kA	50 50 Fuse or CB 50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection	kA kA kA kA	50 50 Fuse or CB 50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  at 480Y/277V	kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current         Motor Disconnect         at 240V         at 600V         protection         Group Motor Installation         at 240V         at 480V         at 600V         protection         Tap Conductor Protection         at 480Y/277V         at 480Y/277V         at 480Y/277V         at 480Y/277V         at 600Y/347V	kA kA kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 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
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V	kA kA kA kA kA circuit cur	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 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
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V	kA kA kA kA kA circuit cur	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  Maximum UL/CSA horsepower ratings single-phase	kA kA kA kA circuit cur kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  Maximum UL/CSA horsepower ratings single-phase  at 110V-120V	kA kA kA kA circuit cu kA kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50
Motor Disconnect	kA kA kA kA circuit cur kA kA	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  Maximum UL/CSA horsepower ratings single-phase  at 110V-120V at 220V-240V  Maximum UL/CSA horsepower ratings three-phase, 3-pole	kA 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
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  Maximum UL/CSA horsepower ratings single-phase  at 110V-120V at 220V-240V  Maximum UL/CSA horsepower 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
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current   Motor Disconnect	kA kA kA kA kA sircuit cur kA kA hp hp	50 50 Fuse or CB 50 50 50 Fuse or CB 50 50 rrent 50 50 50 1 2
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current  Motor Disconnect  at 240V at 480V at 600V protection  Group Motor Installation  at 240V at 480V at 600V protection  Tap Conductor Protection  Tap Conductor Protection  at 480Y/277V at 600Y/347V  UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V  Maximum UL/CSA horsepower ratings single-phase  at 110V-120V at 220V-240V  Maximum UL/CSA horsepower 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

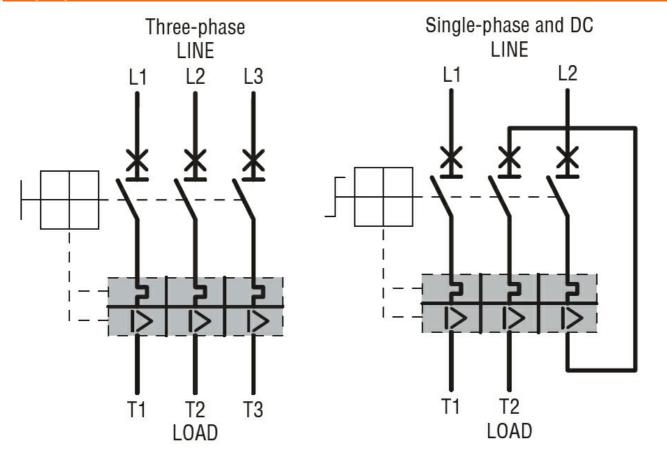


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### **Dimensions**



## 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 6 classificati	on .