

SM1P0650 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 4...6.5A



Product designation				Motor protection circuit breaker
Product type designation				SM1P
Electrical features				-
Number of poles			Nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detectio	n			yes
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Rated frequency			Hz	50/60
Thermal trip adjustme	nt range			46.5
Rated current (In)			А	6.5
Magnetic tripping				13 x ln
Total power dissipatio	n		W	1.99
	uit current breaking capacity (Ics) at AC			
oporational onore ono		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	3
Maximum short-circuit	current breaking capacity (Icu) at AC	0001	10.1	0
	content breaking capacity (loa) at the	230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	3
Tripping class				10A
IEC Utilization category				A
Operations	· ;			
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features			eyelee	100000
Tightening torque for t	terminals			
righterning torque for t		min	Nm	2.5
		max	Nm	3
		min	Ibin	22
		max	Ibin	26.5
Max number of wires	simultaneously connectable	тах	Nr.	2
Conductor section				_
	AWG/Kcmil			
		min		16
		max		8
	Flexible w/o lug conductor section	max		0
	i ionidie wie iug conductor accitori	min	mm²	1
		111111	11111	I



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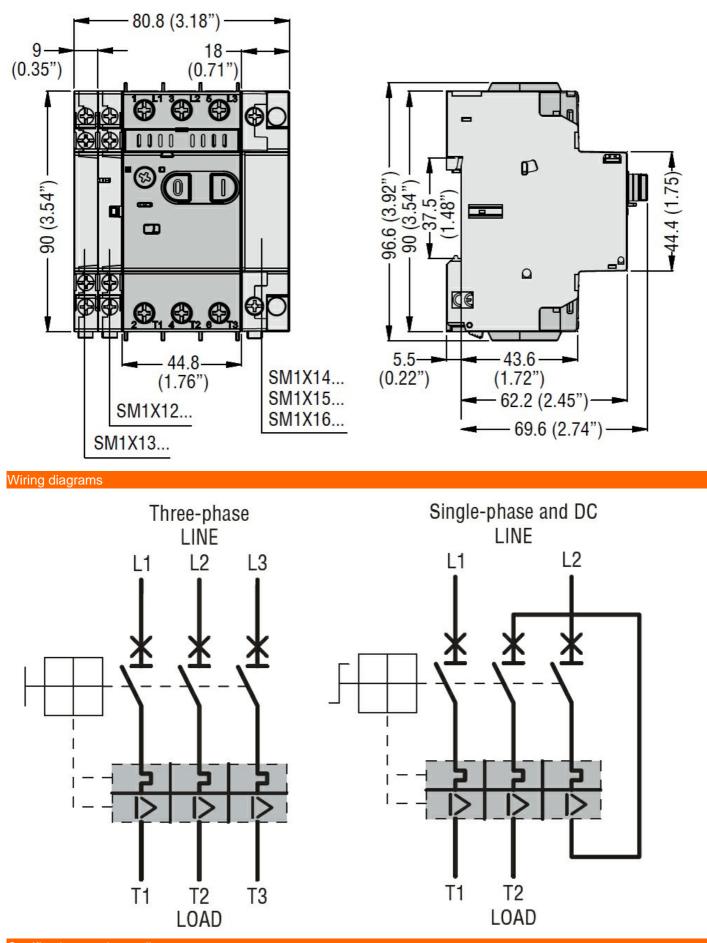
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	Flexible c/w lug conductor section	2	
	min	mm²	1
	Flexible with insulated spade lug conductor section	····· 2	4
Screwdriver	min	mm²	1 PH2
	ation according to IEC/EN 60520		IP20
	ction according to IEC/EN 60529		IP20
Cable stripping lenght	main circuit	mm	1
Ambient conditions			
Temperature			
	Operating temperature		
	min	°C	-20
	max	°C	+60
	Storage temperature		
	min	°C	-50
	max	°C	+80
	Compensation temperature		
	min	°C	-20
	max	°C	+50
Vax altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		Any
			Screw / DIN rai
Fixing			35mm
Weight		g	350
JL technical data		Ŭ	
	at 240\/		30
	at 240V	kA	30
	at 480V	kA kA	30
	at 480V at 600V	kA	30 30
Motor Disconnect	at 480V at 600V protection	kA kA	30
Motor Disconnect	at 480V at 600V protection	kA kA kA	30 30 100A class J
Motor Disconnect	at 480V at 600V protection on at 240V	kA kA kA	30 30 100A class J 30
UL technical data Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 480V	kA kA kA kA	30 30 100A class J 30 30
Motor Disconnect	at 480V at 600V protection on at 240V at 480V at 480V at 600V	kA kA kA	30 30 100A class J 30 30 30
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection	kA kA kA kA	30 30 100A class J 30 30
Motor Disconnect	at 480V at 600V protection on at 240V at 240V at 480V at 600V protection	kA kA kA kA	30 30 100A class J 30 30 30 100A class J
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 240V at 480V at 600V protection ction at 480Y/277V	kA kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J 50
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 240V at 240V at 480V at 600V protection ction at 480Y/277V at 600Y/347V	kA kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J 50 50
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 240V at 480V at 600V protection ction at 480Y/277V	kA kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J 50 50
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 240V at 240V at 480V at 600V protection ction at 480Y/277V at 600Y/347V	kA kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J 50 50
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 240V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of	kA kA kA kA kA kA kA circuit cui	30 30 100A class J 30 30 30 100A class J 50 50 50
Motor Disconnect Group Motor Installatio	at 480V at 600V protection on at 240V at 240V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V	kA kA kA kA kA kA kA circuit cur kA	30 30 100A class J 30 30 30 100A class J 50 50 rrent 50
Motor Disconnect Group Motor Installatio Tap Conductor Protec UL508 / UL 60947-4-1	at 480V at 600V protection on at 240V at 240V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V	kA kA kA kA kA kA circuit cui kA kA	30 30 100A class J 30 30 30 100A class J 50 50 rrent 50 50
Motor Disconnect Group Motor Installatio Tap Conductor Protec JL508 / UL 60947-4-1	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase	kA kA kA kA kA kA kA circuit cui kA kA kA	30 30 100A class J 30 30 30 100A class J 50 50 50 50 50 50
Motor Disconnect Group Motor Installatio Tap Conductor Protec JL508 / UL 60947-4-1	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V	KA KA KA KA KA KA KA Circuit cui KA KA KA KA KA	30 30 100A class J 30 30 30 30 100A class J 50 50 50 50 50 50 50 50 50 50
Motor Disconnect Group Motor Installatio Tap Conductor Protec JL508 / UL 60947-4-1 Maximum UL/CSA hor	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V	kA kA kA kA kA kA kA circuit cui kA kA kA	30 30 100A class J 30 30 30 100A class J 50 50 50 50 50 50
Motor Disconnect Group Motor Installatio Tap Conductor Protec JL508 / UL 60947-4-1 Maximum UL/CSA hor	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V rsepower ratings three-phase, 3-pole	kA kA kA kA kA kA kA circuit cui kA kA kA kA hP HP	30 30 100A class J 30 30 30 30 100A class J 50 50 50 50 50 1/4 1/2
Motor Disconnect Group Motor Installatio Tap Conductor Protec UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection etion at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V rsepower ratings three-phase, 3-pole 200V-208V	KA KA KA KA KA KA KA KA KA KA KA KA HP HP	30 30 100A class J 30 30 30 30 100A class J 50 50 50 50 50 50 1/4 1/2 1.5
Motor Disconnect Group Motor Installatio Tap Conductor Protec JL508 / UL 60947-4-1 Maximum UL/CSA hor	at 480V at 600V protection on at 240V at 480V at 600V protection ction at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V rsepower ratings three-phase, 3-pole	KA KA KA KA KA KA KA KA KA KA KA KA KA HP HP HP	30 30 100A class J 30 30 30 30 100A class J 50 50 50 50 50 50 50 50 50 50
Motor Disconnect Group Motor Installatio Tap Conductor Protec UL508 / UL 60947-4-1 Maximum UL/CSA hor	at 480V at 600V protection on at 240V at 480V at 480V at 600V protection etion at 480Y/277V at 600Y/347V I Manual Self Protected Combination Motor Controller (Type E) Short of at 240V at 480Y/277V at 600Y/347V rsepower ratings single-phase 110V-120V 220V-240V rsepower ratings three-phase, 3-pole 200V-208V	KA KA KA KA KA KA KA KA KA KA KA KA HP HP	30 30 100A class J 30 30 30 100A class J 50 50 50 50 50 1/4 1/2 1.5

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Certifications and compliance

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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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		
		EC000074 -

ETIM 8.0

EC000074 -Motor protection circuit-breaker