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Product designation				Motor protection circuit breaker
Product type designation	ion			SM1R
Electrical features			N I.a	<u>^</u>
Number of poles			Nr.	3
Magnetic protection Thermal protection				yes
Phase failure detection	~			yes
			V	yes 690
Rated insulation voltage Ui IEC/EN			kV	6
Rated impulse withstand voltage Uimp			Hz	50/60
Rated frequency			ΠΖ	0.631
Rated current (In)	Thermal trip adjustment range		А	1
Magnetic tripping			A	13 x ln
Total power dissipation	<u></u>		W	2.14
	uit current breaking capacity (Ics) at AC		vv	2.14
	an current breaking capacity (ics) at AC	230V	kA	100
		230V 400V	кА kA	100
		400V 440V	кА kA	100
		440V 500V	kA kA	100
		690V	kA kA	100
Maximum chart circuit	current broaking capacity (Icu) at AC	0901	KA.	100
Maximum Short-Circuit	current breaking capacity (Icu) at AC	2201/	1. 0	100
		230V 400V	kA	100
			kA	100
		440V	kA	100
		500V	kA	100
Tripping close		690V	kA	100
Tripping class				10A
IEC Utilization categor	У			A
Operations				400000
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features	· · ·			
Tightening torque for the	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	22
		max	Ibin	26.5
Max number of wires simultaneously connectable			Nr.	2
Conductor section				
	AWG/Kcmil			
		min		16
		max		8
	Flexible w/o lug conductor section		_	
		min	mm²	1



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	Flexible c/w lug conductor section	min	mm²	1
	Flexible with insulated spade lug conductor section	min	mm²	1
Screwdriver				PH2
ower terminal prote	ction according to IEC/EN 60529			IP20
Cable stripping lengh	ht			
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature			
		min	°C	-50
	0	max	°C	+80
	Compensation temperature		•	00
		min	°C 2°	-20
A100 L.		max	°C	+50
lax altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rai 35mm
Veight			g	320
_			g	520
II technical data				
JL technical data				
		at 480\/	kΔ	50
		at 480V	kA kA	50 50
		at 600V	kA kA	50
Notor Disconnect	ion			
Notor Disconnect	ion	at 600V protection	kA	50 Fuse or CB
Notor Disconnect	ion	at 600V protection at 480V	kA kA	50 Fuse or CB 50
Notor Disconnect	ion	at 600V protection at 480V at 600V	kA	50 Fuse or CB 50 50
Aotor Disconnect Group Motor Installat		at 600V protection at 480V	kA kA	50 Fuse or CB 50
Notor Disconnect Group Motor Installat	ction	at 600V protection at 480V at 600V protection	kA kA kA	50 Fuse or CB 50 50 Fuse or CB
Notor Disconnect Group Motor Installat	ction	at 600V protection at 480V at 600V	kA kA	50 Fuse or CB 50 50
Aotor Disconnect Group Motor Installat	ction	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V	kA kA kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50
Aotor Disconnect Group Motor Installat	ction	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V	kA kA kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50
Aotor Disconnect Group Motor Installat	ction 1 Manual Self Protected Combination Motor Controller (at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short c	kA kA kA kA kA sircuit cur	50 Fuse or CB 50 50 Fuse or CB 50 50 50
Notor Disconnect Broup Motor Installat	ction 1 Manual Self Protected Combination Motor Controller (at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V	kA kA kA kA ircuit cur kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50
Notor Disconnect Group Motor Installat ap Conductor Prote	ction 1 Manual Self Protected Combination Motor Controller (at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short c at 240V at 480Y/277V	kA kA kA kA kA sircuit cur kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Notor Disconnect Group Motor Installat ap Conductor Prote	ction 1 Manual Self Protected Combination Motor Controller (at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short c at 240V at 480Y/277V	kA kA kA kA kA sircuit cur kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Notor Disconnect Broup Motor Installat ap Conductor Prote	ction 1 Manual Self Protected Combination Motor Controller (at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V at 480Y/277V at 600Y/347V	kA kA kA kA ircuit cur kA kA kA	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Notor Disconnect Group Motor Installat ap Conductor Prote JL508 / UL 60947-4-	ection 1 Manual Self Protected Combination Motor Controller (prsepower ratings single-phase	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short c at 240V at 480Y/277V at 600Y/347V 110V-120V	kA kA kA kA irrcuit cur kA kA kA kA HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Notor Disconnect Group Motor Installat ap Conductor Prote JL508 / UL 60947-4-	ction 1 Manual Self Protected Combination Motor Controller (at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V at 480Y/277V at 600Y/347V 110V-120V 220V-240V	kA kA kA kA irircuit cur kA kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50
Notor Disconnect Group Motor Installat ap Conductor Prote JL508 / UL 60947-4-	ection 1 Manual Self Protected Combination Motor Controller (prsepower ratings single-phase	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short c at 240V at 480Y/277V at 600Y/347V 110V-120V 220V-240V 200V-208V	KA KA KA KA KA KA KA KA KA HP HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 Trent 50 50
Aotor Disconnect Group Motor Installat Tap Conductor Prote JL508 / UL 60947-4-	ection 1 Manual Self Protected Combination Motor Controller (prsepower ratings single-phase	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V at 480Y/277V at 600Y/347V 110V-120V 220V-240V	kA kA kA kA irircuit cur kA kA kA HP HP	50 Fuse or CB 50 50 Fuse or CB 50 50 rrent 50 50

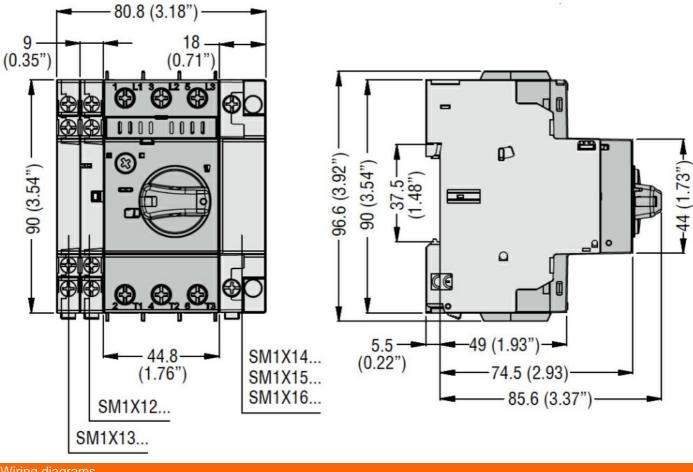
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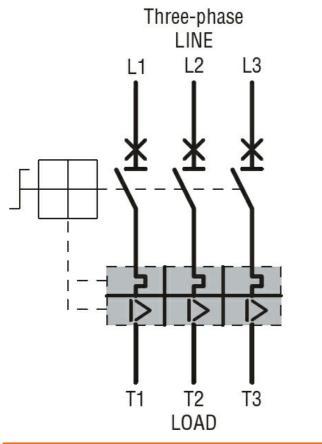
MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT

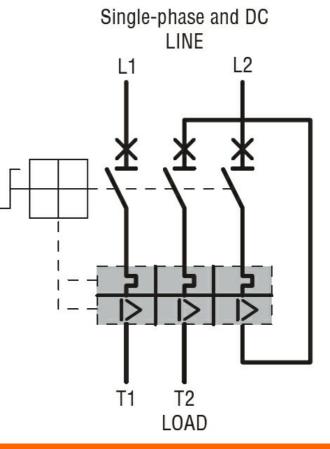
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400V, 0.63...1A



Wiring diagrams





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

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