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

ENERGY AND AUTOMATION



Product designation				Motor protection circuit breaker
Product type designat Electrical features	ion			SM1R
Number of poles			Nr.	3
Magnetic protection			141.	yes
Thermal protection				yes
Phase failure detection	n			yes
Rated insulation voltage			V	690
Rated impulse withsta	-		kV	6
Rated frequency	nd voltage onnp		Hz	50/60
Thermal trip adjustmen	ot range		1 12	46.5
Rated current (In)	it range		Α	6.5
Magnetic tripping			^	13 x ln
	2		W	
Total power dissipation	uit current breaking capacity (Ics) at AC		VV	1.99
Operational Short-circu	all current breaking capacity (ics) at AC	2201/	LΔ	400
		230V	kΑ	100
		400V 440V	kΑ	100 100
		500V	kA kA	100
		690V	kA kA	2
Maximum abort aircuit	current broaking consoity (lay) at AC	0907	KA	
Maximum short-circuit current breaking capacity (Icu) at AC		0001/	1. A	400
		230V 400V	kA kA	100
			kA kA	100
		440V 500V		100
		690V	kΑ	100
Trinning class		0907	kA	4 10A
Tripping class	n.,			
IEC Utilization categor Operations	у			A
•			evelee.	100000
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features	anna in a la			
Tightening torque for t	erminais		Nice	0.5
		min	Nm	2.5
		max	Nm	3
		min	lbin	22
NA	de Recent de Constant la	max	Ibin	26.5
	simultaneously connectable		Nr.	2
Conductor section	ANA(O/IZ			
	AWG/Kcmil			4.0
		min		16
	FI 21 / I 2	max		8
	Flexible w/o lug conductor section	_	•	
		min	mm²	1



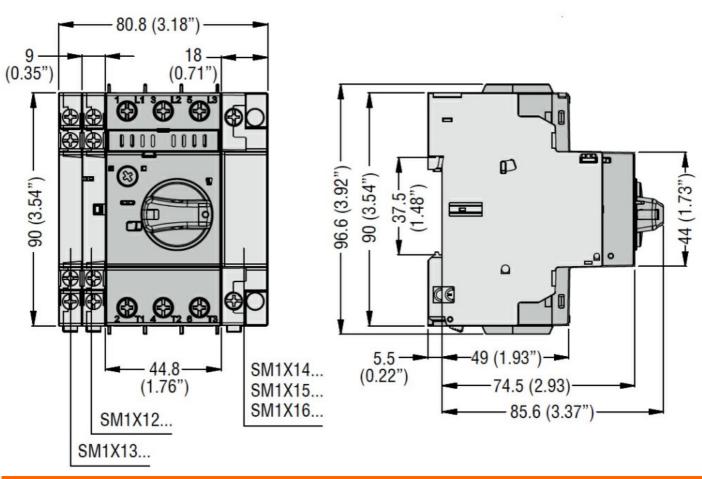
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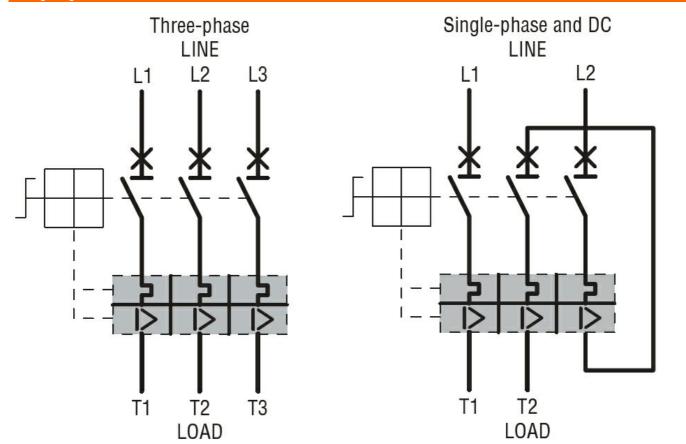
	Flexible c/w lug conductor section		_	
		min	mm²	
	Flexible with insulated spade lug conductor section	min	mm²	1
Screwdriver				PH2
Power terminal protect	tion according to IEC/EN 60529			IP20
Cable stripping lenght	-			
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature			
		min	°C	-50
		max	°C	+80
	Compensation temperature	_	^-	
		min	°C	-20
		max	°C	+50
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail 35mm
Weight			g	390
vvcigiit			9	000
UL technical data			9	000
			9	000
UL technical data		at 480V	kA	30
UL technical data		at 600V		30 30
UL technical data Motor Disconnect			kA	30
UL technical data	on	at 600V protection	kA kA	30 30 Fuse or CB
UL technical data Motor Disconnect	on	at 600V protection at 480V	kA kA	30 30 Fuse or CB
UL technical data Motor Disconnect	on	at 600V protection at 480V at 600V	kA kA	30 30 Fuse or CB 30 30
UL technical data Motor Disconnect Group Motor Installation		at 600V protection at 480V	kA kA	30 30 Fuse or CB
UL technical data Motor Disconnect	tion	at 600V protection at 480V at 600V protection	kA kA kA kA	30 30 Fuse or CB 30 30 Fuse or CB
Motor Disconnect Group Motor Installatio	tion a	at 600V protection at 480V at 600V protection at 480Y/277V	kA kA kA kA	30 30 Fuse or CB 30 30 Fuse or CB
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect	tion a a	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V	kA kA kA kA	30 30 Fuse or CB 30 30 Fuse or CB
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect	tion a	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of	kA kA kA kA kA	30 30 Fuse or CB 30 30 Fuse or CB 30 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect	tion a a Manual Self Protected Combination Motor Controller (T	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V	kA kA kA kA sircuit cui	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect	tion a a Manual Self Protected Combination Motor Controller (T	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V at 480Y/277V	kA kA kA kA circuit cui	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1	tion a a Manual Self Protected Combination Motor Controller (T a a	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V	kA kA kA kA sircuit cui	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1	tion a a Manual Self Protected Combination Motor Controller (T	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 circuit cur kA kA	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1	tion a a Manual Self Protected Combination Motor Controller (T a a	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	kA kA kA kA circuit cur kA kA kA	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	tion a a a Manual Self Protected Combination Motor Controller (T a a a a sepower 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	kA kA kA kA circuit cur kA kA	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	tion a a Manual Self Protected Combination Motor Controller (T a a	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 circuit cur kA kA HP	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30 1/4 1/2
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	tion a a a Manual Self Protected Combination Motor Controller (T a a a a sepower ratings single-phase	at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V Type E) Short of at 240V at 600Y/347V 110V-120V 220V-240V 200V-208V	kA kA kA kA circuit cur kA kA kA HP	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30 1/4 1/2
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	tion a a a Manual Self Protected Combination Motor Controller (T a a a a sepower 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 200V-208V 220V-240V	kA kA kA kA circuit cui kA kA HP HP	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30 1/4 1/2
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	tion a a a Manual Self Protected Combination Motor Controller (T a a a a sepower 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 200V-208V 220V-240V 440V-480V	kA kA kA kA sircuit cuit kA kA HP HP HP	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30 1/4 1/2
UL technical data Motor Disconnect Group Motor Installatio Tap Conductor Protect UL508 / UL 60947-4-1 Maximum UL/CSA hor	tion a a a Manual Self Protected Combination Motor Controller (T a a a a sepower 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 200V-208V 220V-240V	kA kA kA kA circuit cui kA kA HP HP	30 30 Fuse or CB 30 30 Fuse or CB 30 30 rrent 30 30 30 1/4 1/2



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Wiring diagrams





SM1R0650

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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

ETIM 8.0

EC000074 -Motor protection circuit-breaker