electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT **ENERGY AND AUTOMATION**

400V, 0.63...1A



Product designation Product type designation				Motor protective circuit breaker SM1R
Electrical features				CIWITY
Number of poles			nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				Yes
Rated insulation voltage Ui IEC/EN			V	690
Rated impulse withstand volt	age Uimp		kV	6
Rated frequency Thermal trip adjustment rang	_		Hz	50/60
Rated current (In)	e		Α	0.631 1
Magnetic tripping				13 x ln
Total power dissipation			W	2.14
	ent breaking capacity (Ics) at AC			
,		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Maximum short-circuit curren	t breaking capacity (Icu) at AC			400
		230V	kA	100
		400V	kΑ	100
		440V 500V	kA kA	100 100
		690V	kA kA	100
Tripping class		030 V	iνΛ	10A
EC Utilization category				A
Operations				
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features				
ightening torque for termina	ıls			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
	t.	max	lbin	2.2
Max number of wires simulta	neously connectable		nr.	2
Conductor section	AWG/Kcmil			
	AWG/RCIIII	min		16
		max		8
	Flexible w/o lug conductor section			•
		min	mm²	1
	Flexible c/w lug conductor section			
	v	min	mm²	1
	Flexible with insulated spade lug conductor section			
		min	mm²	1
Screwdriver				PH2
Power terminal protection ac	cording to IEC/EN 60529			IP20
Cable stripping lenght				
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature		0.0	00
		min	°C	-20
	Storage temperature	max	°C	60
	Storage temperature	min	°C	-50
		max	°C	-50 80
	Compensation temperature	IIIdX	<u> </u>	00
	compensation competation	min	°C	-20
		max	°C	50
Max altitude			m	3000
Operating position				
. •.		normal		Vertical plan
		allowable		Any
ixing				Screw / DIN rail 35mm
Weight			g	320
JL technical data				
	al Motor Controller - Short circuit current			
Notor Disconnect				
		at 480V	kA	50



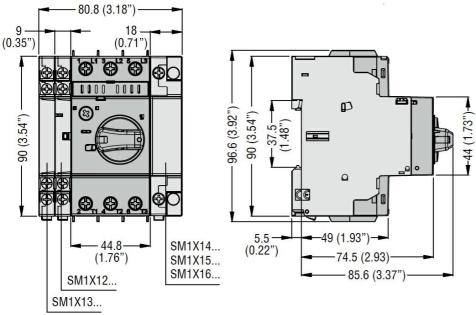
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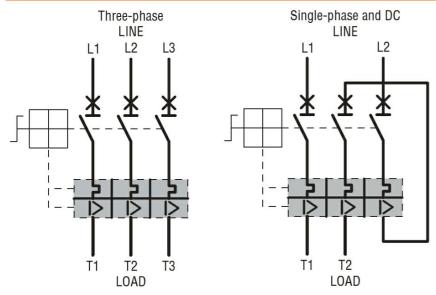
ENERGY AND AUTOMATION

	at 600V	kA	50
	protection		Fuse or CB
Group Motor Installation			
	at 480V	kA	50
	at 600V	kA	50
	protection		Fuse or CB
Tap Conductor Protection			
	at 480Y/277V	kA	50
	at 600Y/347V	kA	50
LII 508 / LII 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current			

UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controllet (Type E) Short-circuit current at 240 UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current at 480 UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current at 600

Maximum UL/CSA horsepower ratings single-phase at 110V-120V hp at 220V-240V hp Maximum UL/CSA horsepower ratings three-phase, 3-pole at 200V-208V hp at 220V-240V hp at 440V-480V hp 1/2 at 550V-600V





Certifications

CSA C22.2 n° 14 IEC/EN 60947-1

IEC/EN 60947-2

IEC/EN 60947-4-1



SM1R0100

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ENERGY AND AUTOMATION

	UL508
Compliance	
	cULus
	EAC

ETIM 6 classification