

# electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A

**ENERGY AND AUTOMATION** 



roduct designation roduct type designation				Motor protective circuit breaker SM1R
ectrical features				
umber of poles			nr.	3
lagnetic protection				yes
hermal protection				yes
hase failure detection				Yes
ated insulation voltage Ui IE			V	690
ated impulse withstand volta	age Uimp		kV	6
ated frequency			Hz	50/60
hermal trip adjustment range				2.54
ated current (In)			A	4
agnetic tripping				13 x ln
otal power dissipation			W	2.29
perational short-circuit curre	ent breaking capacity (Ics) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	10
axımum short-circuit current	breaking capacity (Icu) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
20 a 1 a a 1 a a		690V	kA	10
ipping class				10A
C Utilization category				A
perations				
echanical life			cycles	100000
ectrical life			cycles	100000
echanical features				
ghtening torque for terminal	S			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	Ibin	2.2
ax number of wires simultar	neously connectable		nr.	2
onductor section				
	AWG/Kcmil			
		min		16
		max		8
	Flexible w/o lug conductor section			
		min	mm²	1
	Flexible c/w lug conductor section			
		min	mm²	1
	Flexible with insulated spade lug conductor section			
		min	mm²	1
crewdriver			·	PH2
ower terminal protection acc	cording to IEC/EN 60529			IP20
able stripping lenght				-
		main circuit	mm	1
mbient conditions				
emperature			-	
	Operating temperature			
		min	°C	-20
		max	°C	60
	Storage temperature			
		min	°C	-50
		max	°C	80
	Compensation temperature			
		min	°C	-20
		max	°C	50
ax altitude			m	3000
perating position				
1 G L O.1.		normal		Vertical plan
		allowable		Any
		a		Screw / DIN rail 35mm
xina			g	390
xing /eight			У	550
eight				
eight _ technical data				
xing leight L technical data otor Disconnect		at 480V	kA	30



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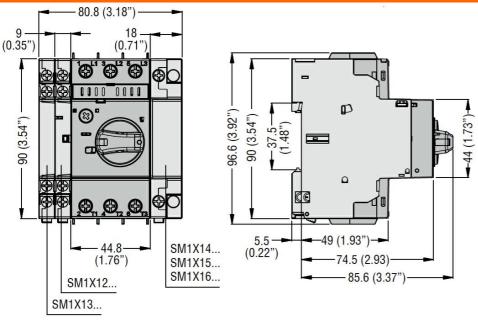
protection		Fuse or CB
at 480V	kA	30
at 600V	kA	30
protection		Fuse or CB
at 480Y/277V	kA	30
at 600Y/347V	kA	30
	at 480V at 600V protection at 480Y/277V	at 480V kA at 600V kA protection

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

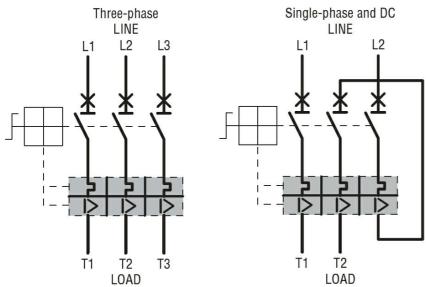
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controllet (Type E) (Short-circuit current at 240 UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controllet (Type E) (Short-circuit current at 480 UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controllet (Type E)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

Maximum UL/CSA horsepower ratings single-phase 110V-120V ΗP 1/8 220V-240V HP 1/3 Maximum UL/CSA horsepower ratings three-phase, 3-pole 200V-208V HP 3/4 220V-240V ΗP 3/4 440V-480V ΗP 2 550V-600V ΗP 3

#### Dimensions



#### Wiring diagrams



#### Certifications and compliance

Certifications

CSA C22.2 n° 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1



### SM1R0400

EC000074 - Motor

protection circuit-breaker

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Compliance	
	cULus
	EAC

ETIM classification

ETIM 8.0