# electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1...1.6A

**ENERGY AND AUTOMATION** 



Product designation Product type designation				Motor protective circuit breaker SM1R
Electrical features				SWIK
Number of poles			nr.	3
Magnetic protection				yes
hermal protection				yes
hase failure detection				Yes
tated insulation voltage Ui IE	EC/EN		V	690
tated impulse withstand volt	age Uimp		kV	6
tated frequency			Hz	50/60
hermal trip adjustment rang	e			11.6
tated current (In)			Α	1.6
Magnetic tripping				13 x ln
Total power dissipation			W	2.30
perational short-circuit curre	ent breaking capacity (Ics) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
laximum short-circuit curren	t breaking capacity (Icu) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
ripping class				10A
EC Utilization category				Α
perations				
lechanical life			cycles	100000
lectrical life			cycles	100000
lechanical features				
ightening torque for termina	ls			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	Ibin	2.2
Max number of wires simulta	neously connectable		nr.	2
Conductor 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 ac	cording to IEC/EN 60529			IP20
able stripping lenght				
· · · · ·		main circuit	mm	1
mbient conditions				
emperature				
•	Operating temperature			
	, 3 1	min	°C	-20
		max	°C	60
	Storage temperature			-
	· ·	min	°C	-50
		max	°C	80
	Compensation temperature			
	1 1	min	°C	-20
		max	°C	50
1ax altitude			m	3000
perating position				
- F - Jamie Pooliton		normal		Vertical plan
		allowable		Any
ixing		allowable		Screw / DIN rail 35mm
Veight			~	320
			g	320
IL technical data	al Motor Controller - Short circuit current			
	a iniotor Controller - Short circuit current			
lotor Disconnect		-1.40017	1. 4	50
		at 480V	kA	50



## MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1...1.6A

**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
ap Conductor Protection			
	at 480Y/277V	kA	50
	at 600Y/347V	kA	50

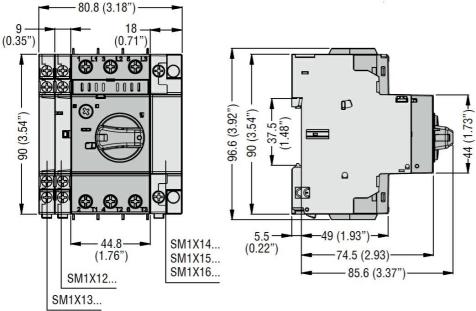
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current

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

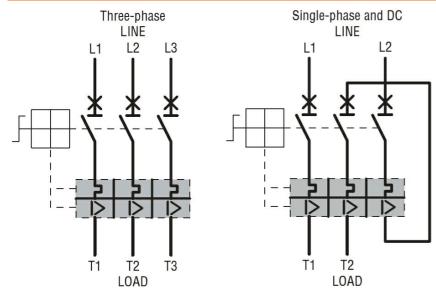
 Maximum UL/CSA horsepower ratings single-phase
 at 110V-120V hp - at 220V-240V hp 1/10

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

#### 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



### SM1R0160 electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT

400V, 1...1.6A

**ENERGY AND AUTOMATION** 

	UL508
Compliance	
	cULus
	EAC