

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

ENERGY AND AUTOMATION

Declaration of a				Motor protection
Product designation				circuit breaker
Product type designati	ion			SM1R
Electrical features				
Number of poles			Nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				Yes
Rated insulation voltage			V	690
Rated impulse withstar	nd voltage Uimp		kV	6
Rated frequency			Hz	50/60
Thermal trip adjustmer	nt range			2.54
Rated current (In)			Α	4
Magnetic tripping				13 x In
Total power dissipation	n		W	2.29
Operational short-circu	uit current breaking capacity (Ics) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	10
Maximum short-circuit	current breaking capacity (Icu) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	10
Tripping class				10A
IEC Utilization categor	у			A
Operations				
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features				
Tightening torque for to	erminals			
		min	Nm	2.5
		max	Nm	3
		min	Ibin	1.8
		max	Ibin	2.2
Max number of wires s	simultaneously 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			
	, 3	min	mm²	1
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping lenght				
		main circuit	mm	1
		man onout		•

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Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
	-	max	°C	+60
	Storage temperature		°C	50
		min	°C	-50 +80
	Compensation temperature	max	<u> </u>	+00
	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
UL technical data				
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
Over Meter Installet		protection		Fuse or CB
Group Motor Installati	On	at 480V	kA	30
		at 600V	kA kA	30
		protection	KΛ	Fuse or CB
Tap Conductor Prote	ction	p.otooo		. 400 0. 02
		480Y/277V	kA	30
	at	600Y/347V	kA	30
UL508 / UL 60947-4-	1 Manual Self Protected Combination Motor Controller (Ty	pe E) Short c	ircuit cu	rrent
		at 240V	kA	30
		480Y/277V	kA	30
		600Y/347V	kA	30
Maximum UL/CSA ho	orsepower ratings single-phase			
		110V-120V	HP	1/8
Marrian III /OCA ha		220V-240V	HP	1/3
waximum ol/csa nc	orsepower ratings three-phase, 3-pole	2001/2001/	UD	2/4
		200V-208V 220V-240V	HP HP	3/4 3/4
		440V-480V	HP	2
		550V-600V	HP	3
Dimensions				
Wiring diagrams				
Certifications and cor	mpliance			
Certifications and cor	приапос			
	CSA C22.2 n° 14			
	IEC/EN 60947-1			
	IEC/EN 60947-2			
	IEC/EN 60947-4-1			
	UL508			
Compliance				



SM1R0400 electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT

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EAC

ETIM classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker