

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

400V, 2.5...4A 1-1-1



Product designation				1999
roddor dobignation				Motor protective circuit
				breaker
Product type designation				SM1R
Electrical features				
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 voltage			kV	6
Rated frequency			Hz	50/60
Thermal trip adjustment range			112	2.54
Rated current (In)			A	4
			A	
Magnetic tripping				13 x ln
Total power dissipation			W	2.29
Operational short-circuit 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 bi	reaking capacity (Icu) at AC			-
		230V	kA	100
		230V 400V	кА kA	100
		400V 440V	кА kA	100
		500V	kA	100
		690V	kA	10
Tripping class				10A
EC Utilization category				А
Operations				
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features				
Tightening torque for terminals				
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Max number of wires simultaned	busly connectable		nr.	2
Conductor section				
	AWG/Kcmil			
		min		16
		max		8
	Flexible w/o lug conductor section			
		min	mm²	
	Flexible c/w lug conductor section			1
	T lexible c/w lug conductor section			1
		min	mm ²	
	En 111 - 11 for the test of the second stress of the	min	mm²	1
	Flexible with insulated spade lug conductor section			1
	Flexible with insulated spade lug conductor section	min	mm² mm²	1
				1 1 PH2
				1
Power terminal protection accor				1 1 PH2
Power terminal protection accor		min	mm²	1 1 PH2
Power terminal protection accor Cable stripping lenght				1 1 PH2 IP20
Power terminal protection accor Cable stripping lenght Ambient conditions		min	mm²	1 1 PH2 IP20
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529	min	mm²	1 1 PH2 IP20
Power terminal protection accor Cable stripping lenght Ambient conditions		min	mm²	1 1 PH2 IP20 1
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529	min	mm² mm °C	1 1 PH2 IP20 1 -20
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529 Operating temperature	min	mm²	1 1 PH2 IP20 1
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529	min main circuit min max	mm² mm °C °C	1 1 PH2 IP20 1 -20 60
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529 Operating temperature	min main circuit min max min	mm² mm °C °C °C	1 1 PH2 IP20 1 -20 60 -50
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max	mm² mm °C °C	1 1 PH2 IP20 1 -20 60
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529 Operating temperature	min main circuit min max min	mm² mm °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min	mm² mm °C °C °C	1 1 PH2 IP20 1 -20 60 -50
Power terminal protection accor Cable stripping lenght Ambient conditions	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max	mm² mm °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80
Power terminal protection accor Cable stripping lenght Ambient conditions Femperature	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max min	mm² mm °C °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80 -20 50
Power terminal protection accor Cable stripping lenght Ambient conditions Femperature Max altitude	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max min	mm² mm °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80 -20
Power terminal protection accor Cable stripping lenght Ambient conditions Femperature Max altitude	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max min max	mm² mm °C °C °C °C °C °C	1 PH2 IP20 1 -20 60 -50 80 -20 50 3000
Power terminal protection accor Cable stripping lenght Ambient conditions Femperature Max altitude	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max min max	mm² mm °C °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80 -20 50 3000 Vertical plan
Power terminal protection accor Cable stripping lenght Ambient conditions Temperature Max altitude Dperating position	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max min max	mm² mm °C °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80 -20 50 3000 Vertical plan Any
Screwdriver Power terminal protection accor Cable stripping lenght Ambient conditions Temperature Max altitude Operating position Fixing Weight	rding to IEC/EN 60529 Operating temperature Storage temperature	min main circuit min max min max min max	mm² mm °C °C °C °C °C °C	1 1 PH2 IP20 1 -20 60 -50 80 -20 50 3000 Vertical plan

SM1R0400

Motor Disconnect

UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

at 480V

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

ENERGY AND AUTOMATION

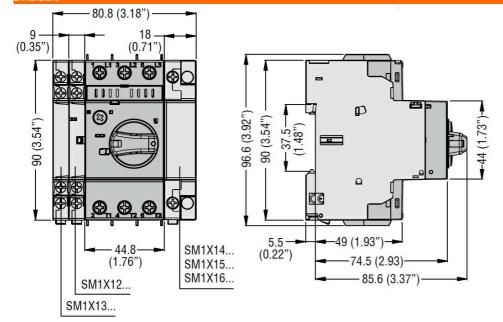
ACITY ICU 100KA AT 400V, 2.5...4A

SM1R0400

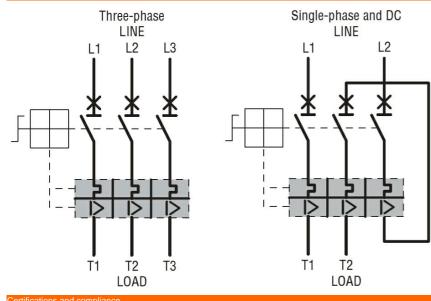
	at 600V	kA	30
	protection		Fuse or CB
Group Motor Installation			
	at 480V	kA	30
	at 600V	kA	30
	protection		Fuse or CB
Tap Conductor Protection			
	at 480Y/277V	kA	30
	at 600Y/347V	kA	30
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current			

UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (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

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



Wiring diagrams



Certifications

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

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	UL508
Compliance	
-	cULus
	EAC
ETIM 6 classification	