ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,



Product type designation				Motor protective circu breaker SM1P
Electrical features	i de la companya de			
Number of poles			nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				yes
Rated insulation voltage U	Ji IEC/EN		V	690
Rated impulse withstand	voltage Uimp		kV	6
Rated frequency			Hz	50/60
Thermal trip adjustment ra	ange			11.6
Rated current (In)			Α	1.6
Magnetic tripping				13 x ln
Total power dissipation			W	2.30
	current breaking capacity (Ics) at AC			
	3 , (,	230V	kA	100
		400V	kA	100
		440V	kA	100
		500V	kA	100
		690V	kA	100
Maximum short-circuit cur	rrent breaking capacity (Icu) at AC	000 V	10/1	.00
naminani short-ollouit our	Total Stocking duputing (100) at 110	230V	kA	100
		400V	kA	100
		400V 440V	kA kA	100
		500V	kA kA	100
		690V	kA	100
rinning alone		090 V	NA .	10A
ripping class EC Utilization category				A
				A
Operations				400000
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features	. ,			
Fightening torque for term	inals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Max number of wires simu	ultaneously connectable		nr.	2
Conductor section				
	AWG/Kcmil			
	AWG/Kcmil	min		16
	AWG/Kemil	min max		16 8
	AWG/Kcmil Flexible w/o lug conductor section		mm²	
	Flexible w/o lug conductor section	max	mm²	8
		max		8
	Flexible w/o lug conductor section Flexible c/w lug conductor section	max min	mm²	1
	Flexible w/o lug conductor section	max min	mm²	1
Screwdriver	Flexible w/o lug conductor section Flexible c/w lug conductor section	max min min		1 1 1
	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section	max min min	mm²	1 1 1 PH2
Power terminal protection	Flexible w/o lug conductor section Flexible c/w lug conductor section	max min min	mm²	1 1 1
Power terminal protection	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section	max min min	mm² mm²	1 1 1 PH2 IP20
Power terminal protection Cable stripping lenght	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section	max min min	mm²	1 1 1 PH2
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section	max min min	mm² mm²	1 1 1 PH2 IP20
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529	max min min	mm² mm²	1 1 1 PH2 IP20
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section	max min min min min min	mm² mm²	8 1 1 1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529	max min min min min min min	mm² mm²	8 1 1 1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature	max min min min min min	mm² mm²	8 1 1 1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529	max min min min min min main circuit	mm² mm °C °C	8 1 1 1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature	max min min min min min main circuit min max min	mm² mm² mm °C °C °C	8 1 1 1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature Storage temperature	max min min min min min main circuit	mm² mm °C °C	8 1 1 1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature	max min min min min min main circuit min max min	mm² mm °C °C °C	8 1 1 1 PH2 IP20 1 -20 60 -50 80
Power terminal protection Cable stripping lenght Ambient conditions	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature Storage temperature	max min min min min min main circuit min max min	mm² mm °C °C °C °C	8 1 1 1 PH2 IP20 1
Screwdriver Power terminal protection Cable stripping lenght Ambient conditions Femperature	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature Storage temperature	max min min min min min min main circuit min max min max	mm² mm °C °C °C	8 1 1 1 PH2 IP20 1 -20 60 -50 80



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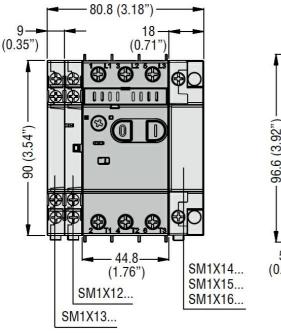
Operating position			
	normal		Vertical plan
	allowable		Any
Fixing			Screw / DIN rail 35mm
Weight		g	280
UL technical data			
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current			
Motor Disconnect			
	at 240V	kA	50
	at 480V	kA	50
	at 600V	kA	50
	protection		Fuse or CB
Group Motor Installation			
	at 240V	kA	50
	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

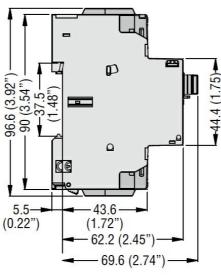
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit curren

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

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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 440V-480V	hp	3/4
	at 550V-600V	qd	1

Dimensions

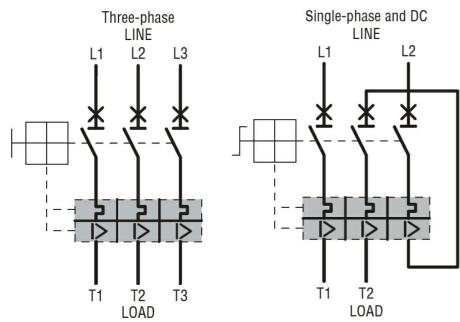




Wiring diagrams

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Certifications and compliance	
Certifications	
	CSA C22.2 n° 14
	IEC/EN 60947-1
	IEC/EN 60947-2
	IEC/EN 60947-4-1
	UL508
Compliance	
	cULus
	EAC

ETIM 6 classification