ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 6.3...10A



Product designation Product type designation				Motor protective circui breaker SM1P
Electrical features				
Number of poles			nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				yes
Rated insulation voltage L			V	690
Rated impulse withstand	voltage Uimp		kV	6
Rated frequency			Hz	50/60
Thermal trip adjustment ra	ange			6.310
Rated current (In)			Α	10
Magnetic tripping				13 x ln
Total power dissipation			W	2.61
Operational short-circuit o	current breaking capacity (Ics) at AC			
		230V	kA	100
		400V	kA	100
		440V	kA	13
		500V	kA	13
		690V	kA	3
laximum short-circuit cur	rrent breaking capacity (Icu) at AC		-	
		230V	kA	100
		400V	kA	100
		440V	kA	25
		500V	kA	25
		690V	kA	3
ripping class				10A
EC Utilization category				A
Operations				
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features				
Tightening torque for term	ninals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Max number of wires sime	ultaneously connectable		nr.	2
Conductor section	•			
	AWG/Kcmil			
		min		16
		max		8
	Flexible w/o lug conductor section			
			mm²	1
		min		
	Flexible c/w lug conductor section	min		
	Flexible c/w lug conductor section			1
		min	mm²	1
	Flexible c/w lug conductor section Flexible with insulated spade lug conductor section	min	mm²	
Screwdriver				1
	Flexible with insulated spade lug conductor section	min	mm²	1 PH2
Power terminal protection		min	mm²	1
Power terminal protection	Flexible with insulated spade lug conductor section	min min	mm² mm²	1 PH2 IP20
Power terminal protection Cable stripping lenght	Flexible with insulated spade lug conductor section	min	mm²	1 PH2
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section	min min	mm² mm²	1 PH2 IP20
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529	min min	mm² mm²	1 PH2 IP20
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section	min min main circuit	mm² mm²	1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529	min min main circuit	mm² mm²	1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature	min min main circuit	mm² mm²	1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529	min min max	mm² mm²	1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature	min min max min	mm² mm °C °C °C	1 PH2 IP20 1 PH2 IP20 1 PH2 IP20 1 PH2 PH2 IP20 PH2
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature Storage temperature	min min max	mm² mm²	1 PH2 IP20 1
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature	min min max min	mm² mm °C °C °C	1 PH2 IP20 1 -20 60 -50 80
Power terminal protection Cable stripping lenght Ambient conditions	Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature Storage temperature	min min max min	mm² mm °C °C °C °C	1 PH2 IP20 1 -20 60 -50 80
Screwdriver Power terminal protection Cable stripping lenght Ambient conditions Temperature	Flexible with insulated spade lug conductor section according to IEC/EN 60529 Operating temperature Storage temperature	min min main circuit min max min max	mm² mm °C °C °C	1 PH2 IP20 1 -20 60 -50 80



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Tap Conductor Protection

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Operating position			
	normal		Vertical plan
	allowable		Any
Fixing			Screw / DIN rail 35mm
Weight		g	350
UL technical data			
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current			
Motor Disconnect			
	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
	protection		100A class J
Group Motor Installation			
	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
	protection		100A class J

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 (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

at 480Y/277V

at 600Y/347V

kΑ

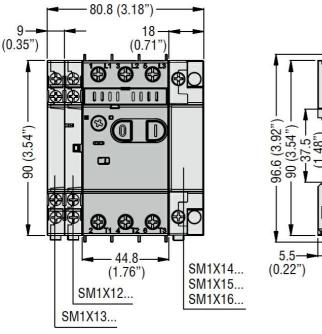
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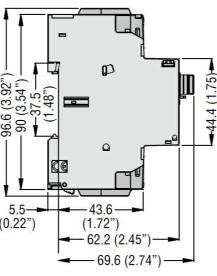
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	0L306 / OL 00947-4-1 Maridal Sell Flotected Combination Mc		oliela(d ype L) Short-circuit cui
Maximum UL/CSA horsepower ratings single-phase			_
	at 110V-120V	hp	1/2
	at 220V-240V	hp	1.5
Maximum UL/CSA horsepower ratings three-phase, 3-pole			
	at 200V-208V	hp	2
	at 220V-240V	hp	3
	at 440V-480V	hp	5
	at 550V-600V	hp	7.5

Dimensions

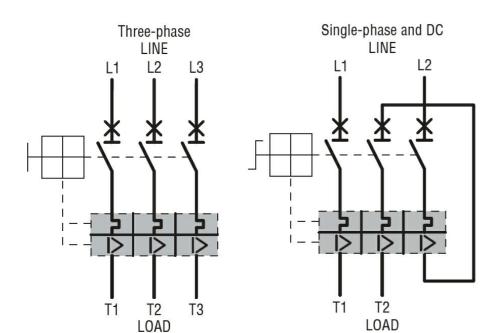




Wiring diagrams



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