

## MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 10KA AT 400V, 30...40A



Product type designation				Motor protective circuit 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			3040
Rated current (In)			Α	40
Magnetic tripping			147	13 x ln
Total power dissipation			W	6.12
Operational short-circuit of	current breaking capacity (Ics) at AC	0001/	1. 4	00
		230V	kA	20
		400V	kΑ	5
		440V	kΑ	5
		500V	kΑ	5
Maximum about sinesit som	reant breaking conneits (less) at AC	690V	kA	2
ıvıaxımum snort-circuit cui	rrent breaking capacity (Icu) at AC	00017	1. A	20
		230V	kA	20
		400V	kA	10
		440V	kA	10
		500V	kA	10
Tringing of the second		690V	kA	2
Tripping class				10A
IEC Utilization category				A
Operations			and a	400000
Mechanical life			cycles	100000
Electrical life			cycles	100000
Mechanical features	ningle			
Tightening torque for term	ilnais		Nies	0.5
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
Man and a strained aire		max	lbin	2.2
Max number of wires sim	ultaneously connectable		nr.	
Conductor section				
	ANA/O/I/:I			
	AWG/Kcmil	:		
	AWG/Kcmil	min		16
		min max		
	AWG/Kcmil  Flexible w/o lug conductor section	max	2	16 8
	Flexible w/o lug conductor section		mm²	16
		max min		16 8 1
	Flexible w/o lug conductor section  Flexible c/w lug conductor section	max	mm²	16 8
	Flexible w/o lug conductor section	max min min	mm²	16 8 1
	Flexible w/o lug conductor section  Flexible c/w lug conductor section	max min		16 8 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	16 8 1 1 1 PH2
Power terminal protection	Flexible w/o lug conductor section  Flexible c/w lug conductor section	max min min	mm²	16 8 1 1
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	16 8 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 min	mm² mm²	16 8 1 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  n according to IEC/EN 60529	max min min min	mm² mm²	16 8 1 1 1 1 PH2 IP20
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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  n according to IEC/EN 60529  Operating temperature  Storage temperature	max min min min min min main circuit	mm² mm²	16 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  n according to IEC/EN 60529  Operating temperature	max min min min min min min main circuit	mm² mm  °C °C °C	16 8 1 1 1 1 PH2 IP20 1
Screwdriver Power terminal protection Cable stripping lenght  Ambient conditions Temperature	Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  n according to IEC/EN 60529  Operating temperature  Storage temperature	max min min min min min min main circuit	mm² mm  °C °C °C °C	16 8 1 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  n 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	16 8 1 1 1 1 PH2 IP20 1



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## MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 10KA AT 400V,

at 200V-208V

at 220V-240V

at 440V-480V

at 550V-600V

10

10

30

30

hp

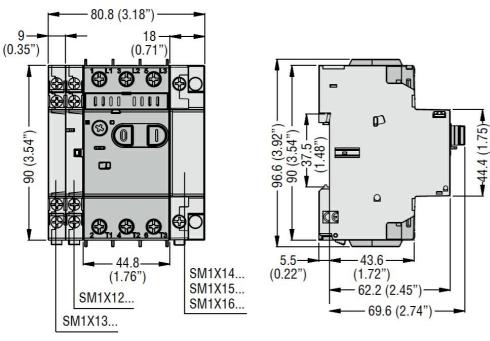
hp

hp

hp

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 of	current		
Motor Disconnect			
	at 240V	kA	5
	at 480V	kA	5
	protection		Fuse or CB
Group Motor Installation			
	at 240V	kA	5
	at 480V	kA	5
	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 Mo	otor Controller (Type E) Short circuit current		
	UL508 / UL 60947-4-1 Manual Self Protected Combination M	otor <b>Ø</b> ontr	oller5(Type E) Short-circuit cu
	UL508 / UL 60947-4-1 Manual Self Protected Combination M	otor <b>KX</b> ontr	oller5(Type E) Short-circuit cu
	UL508 / UL 60947-4-1 Manual Self Protected Combination M	otor <b>KX</b> ontr	oller5(Type E) Short-circuit cu
Maximum UL/CSA horsepower ratings single-phase			
	at 110V-120V	hp	3
	at 220V-240V	hp	7.5
Maximum UL/CSA horsepower ratings three-phase, 3-pole			

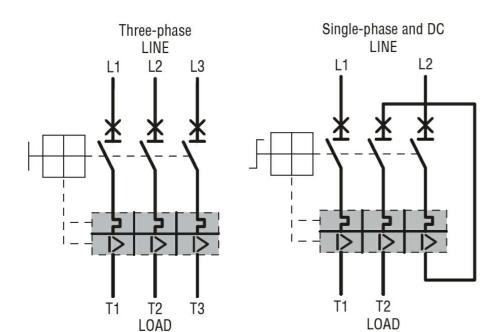
## Dimensions



Wiring diagrams



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

EAC