



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features Number of poles		Nr.	3
Magnetic protection		INI.	
Thermal protection			yes
Phase failure detection			yes
		V	yes 690
Rated insulation voltage Ui IEC/EN		kV	6
Rated impulse withstand voltage Uimp		Hz	
Rated frequency		ΠZ	50/60
Thermal trip adjustment range			6.310
Rated current (In)		Α	10
Magnetic tripping			13 x ln
Power dissipation per pole	_		
	min	W	1.03
	max	W	2.61
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	42
	500V	kA	42
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	42
	690V	kA	4
Tripping class			10A
IEC Utilization category			Α
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			_
AWG/Kcmil			
	min		16
	max		8



## MOTORSCHUTZSCHALTER DREHGRIFFBETÄTIGUNG 6,3-10A-TYPE E SM1R

	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section		2	
		min	mm²	1
	El. 21. 20. See least control of control of control	max	mm²	10
	Flexible with insulated spade lug conductor section			4
		min	mm² mm²	1 10
Screwdriver		max	111111	PH2
	ction according to IEC/EN 60520			
Cable stripping lengh	ction according to IEC/EN 60529			IP20 on front
Cable stripping length		n circuit	mm	12
Ambient conditions	IIIdi	II Circuit	111111	12
Temperature				
remperature	Operating temperature			
	oporating temperature	min	°C	-20
		max	°C	+60
	Storage temperature			
	Citings tomporators	min	°C	-50
		max	°C	+80
	Compensation temperature			
	·	min	°C	-20
		max	°C	+50
Max altitude			m	3000
Operating position				
		normal		Vertical plan
	al	lowable		Any .
Fixing				Screw / DIN ra 35mm
Weight			g	390
UL technical data			, in the second	
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		otection		100A class J
Group Motor Installati	ion			
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
	·	otection		100A class J
Tap Conductor Proted				
		Y/277V	kA	65
		Y/347V	kA	30
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short of				
		at 240V	kA	65
		Y/277V	kA	65
		Y/347V	kA	30
Maximum UL/CSA ho	orsepower ratings single-phase			
Maximum UL/CSA ho	110	V-120V V-240V	HP	1/2 1.5

550V-600V

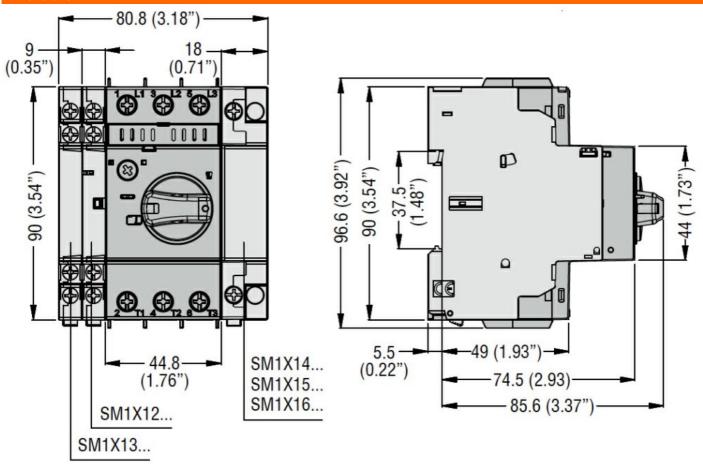
HP

7.5



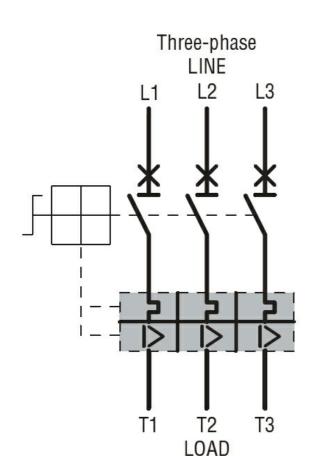
200V-208V HP 2 220V-240V HP 3 440V-480V HP 5

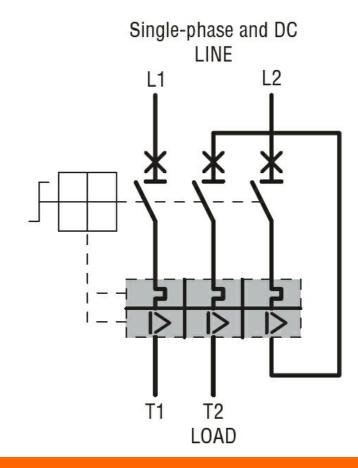
## Dimensions



### Wiring diagrams







# 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 classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker