



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features Number of poles		Nr.	3
Magnetic protection		1.11.	yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			1.62.5
Rated current (In)		Α	2.5
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.67
	max	W	1.63
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 breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
Tripping class			10A
IEC 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	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			10
	min		16
	max		8



	Flexible w/o lug conductor section			
	-	min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
	-	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor se	ection		
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal prote	ection according to IEC/EN 60529			IP20 on front
Cable stripping lengh	nt			
		main circuit	mm	12
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature			
		min	°C	-50
		max	°C	+80
	Compensation temperature			
		min	°C	-20
		max	°C	+50
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		Any
Fixing				Screw / DIN rail
				35mm
Weight			g	320
UL technical data				
Motor Disconnect				
		at 480V	kA	30
		at 600V	kA	30
		protection		Fuse or CB
Group Motor Installat	tion			
		at 480V	kA	30
		at 600V	kA	30
		protection		Fuse or CB
Tap Conductor Prote	ection			
		at 480Y/277V	kA	30
		at 600Y/347V	kA	30
UL508 / UL 60947-4-	-1 Manual Self Protected Combination Motor Con			
		at 240V	kA	65
		at 480Y/277V	kA	65
Maximum III /004		at 600Y/347V	kA	30
waximum UL/CSA h	orsepower ratings single-phase	4401/4001/		
		110V-120V	HP	-
Maximum HII (001)		220V-240V	HP	1/6
waximum UL/CSA h	orsepower ratings three-phase, 3-pole	0001/ 0001/		4/0
		200V-208V	HP	1/2
		220V-240V	HP	1/2

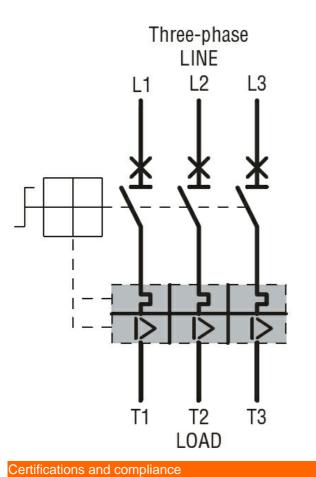


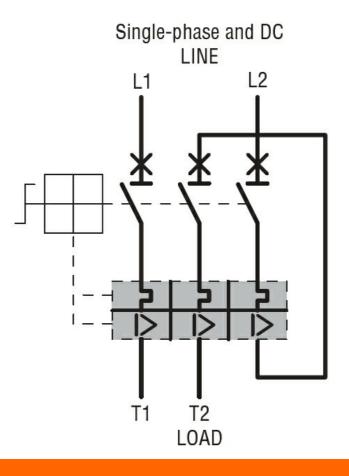
SM1R0250 MOTORSCHUTZSCHALTER DREHGRIFFBETÄTIGUNG 1,6 - 2,5 A SM1R

440V-480V ΗP 1 550V-600V ΗP 1.5 Dimensions 80.8 (3.18")-9 18 (0.35" (0.71)00 -P 96.6 (3.92") 90 (3.54") E 90 (3.54") -44 (1.73 -37.5-(1.48") _0 0 0 49 (1.93") 5.5 (0.22") - 44.8-(1.76") SM1X14... -74.5 (2.93) SM1X15... SM1X16... - 85.6 (3.37") SM1X12... SM1X13...

Wiring diagrams







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