

## MOTOR PROTECTION CIRCUIT BREAKER, TRANSFORMER PROTECTION, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.16...0.25A



Product designation			Motor protection
-			circuit breaker
Product type designation			SM1RT
Electrical features			
Number of poles		Nr.	3
Magnetic protection			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			0.160.25
Rated current (In)		Α	0.25
Magnetic tripping			20 x ln
Power dissipation per pole			
	min	W	0.81
	max	W	1.97
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
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	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8



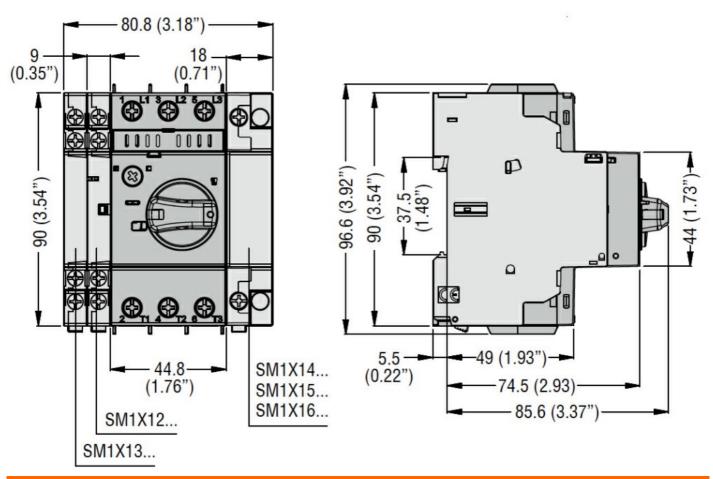


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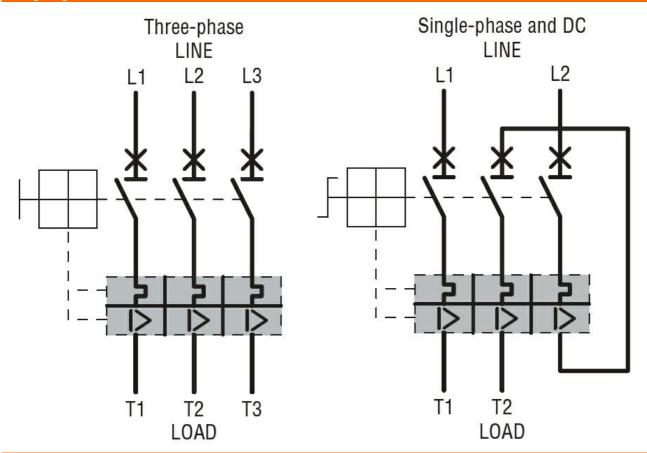
	Flexible w/o lug conductor section				
	min	mm²	1		
	max	mm²	10		
	Flexible c/w lug conductor section				
	min	mm²	1		
	max	mm²	10		
	Flexible with insulated spade lug conductor section	_			
	min	mm²	1		
	max	mm²	10		
Screwdriver	'		PH2		
	tion according to IEC/EN 60529		IP20 on front		
Cable stripping lenght					
A 11 ( 11)	main circuit	mm	12		
Ambient conditions					
Temperature					
	Operating temperature	0.0	00		
	min	°C	-20		
	Ctana na tanan aratum	°C	+60		
	Storage temperature	° <b>^</b>	F0		
	min	°C	-50		
	Componentian temperature	U	+80		
	Compensation temperature	°C	20		
	min	°C	-20 +50		
Max altitude	max		3000		
Operating position		m	3000		
Operating position	normal		Vertical plan		
	allowable		Vertical plan Any		
	allowable		Screw / DIN rail		
Fixing			35mm		
Weight		g	270		
UL technical data					
Motor Disconnect					
	at 480V	kA	65		
	protection		Fuse or CB		
Group Motor Installation		_			
	at 480V	kA	65		
	protection		Fuse or CB		
Tap Conductor Protect	tion at 480Y/277V	kA	65		
Maximum III /CSA hor	rsepower ratings single-phase	IV-1			
Maximum OL/OOA NOI	110V-120V	HP	_		
	220V-240V	HP	_		
Maximum UL/CSA horsepower ratings three-phase, 3-pole					
a.a.iiiaiii OL/OO/(IIOI	200V-208V	HP	-		
	220V-240V 220V-240V	HP	-		
	440V-480V	HP	-		
Dimensions					



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#### Wiring diagrams



### Certifications and compliance



#### SM1RT0025

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Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-2 IEC/EN/BS 60947-4-1

UL 60947-4-1

Compliance

cULus

EAC

ETIM classification

**ETIM 8.0** 

EC000074 -Motor protection circuit-breaker