ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER, TRANSFORMER PROTECTION, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1.6...2.5A



Product designation			Motor protection circuit breaker
Product type designation			SM1RT
Electrical features Number of poles		Nr.	3
Magnetic protection		141.	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		112	1.62.5
Rated current (In)		Α	2.5
Magnetic tripping			20 x In
Power dissipation per pole			20 X 111
1 ower dissipation per pole	min	W	0.67
	max	W	1.63
Operational short-circuit current breaking capacity (Ics) at AC	max	• • • • • • • • • • • • • • • • • • • •	1.00
Operational short official order breaking capacity (103) at AO	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
Maximum short-circuit current breaking capacity (Icu) at AC			
The state of the s	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	10
Tripping class			10A
IEC Utilization category			A
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	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8



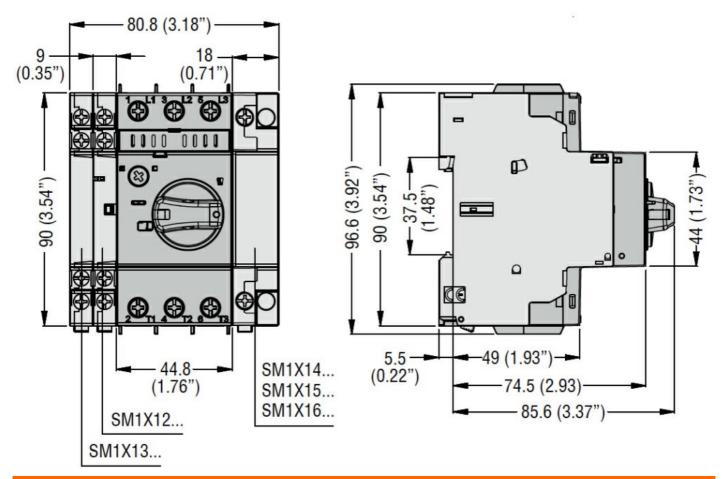


MOTOR PROTECTION CIRCUIT BREAKER, TRANSFORMER PROTECTION, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1.6...2.5A

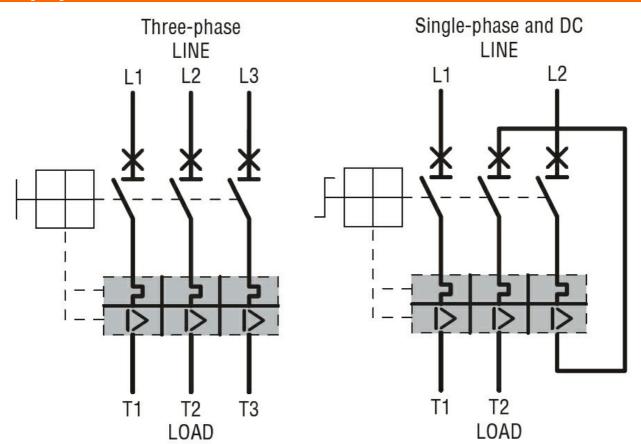
Flexible w/o lug conductor section
Plexible c/w lug conductor section min mm² 1 1 1 1 1 1 1 1 1
Flexible c/w lug conductor section
Plexible with insulated spade lug conductor section Flexible with insulated spade lug conductor Flexible with insulated
Plexible with insulated spade lug conductor section Plexible with insulated spade lug conductor Plexible with insulated sp
Flexible with insulated spade lug conductor section min max mm² 1 1 1 1 1 1 1 1 1
Min max
Max Mm2 10
Screwdriver
Power terminal protection according to IEC/EN 60529
Main circuit mm 12
Main circuit mm 12
Maniorization
Ambient conditions Temperature Operating temperature
Temperature
Operating temperature
Min
Max
Storage temperature
min
Max or C +80
Compensation temperature min °C -20 max °C +50 Max altitude m 3000 Operating position normal allowable Any Fixing Fixing Weight g 340 UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
min max °C +20 +50 Max altitude m 3000 Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 340 UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
Max altitude m 3000 Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 340 UL technical data at 480V kA 65 Protection Fuse or CB
Max altitude m 3000 Operating position normal Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 340 UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
Operating position normal Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 340 UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
Fixing Fixing Weight UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
Fixing Any Weight g 340 UL technical data 35mm Motor Disconnect at 480V kA 65 protection Fuse or CB
Fixing Screw / DIN rail 35mm Weight g 340 UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
Weight g 340 UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
UL technical data Motor Disconnect at 480V kA 65 protection Fuse or CB
Motor Disconnect at 480V kA 65 protection Fuse or CB
at 480V kA 65 protection Fuse or CB
protection Fuse or CB
•
Group Motor Installation
·
at 480V kA 65
protection Fuse or CB
Tap Conductor Protection
at 480Y/277V kA 65
Maximum UL/CSA horsepower ratings single-phase
110V-120V HP -
220V-240V HP 1/6
Maximum UL/CSA horsepower ratings three-phase, 3-pole
200V-208V HP 1/2
220V-240V HP 1/2
440V-480V HP 1
Dimensions



ENERGY AND AUTOMATION



Wiring diagrams



Certifications and compliance



SM1RT0250

MOTOR PROTECTION CIRCUIT BREAKER, TRANSFORMER PROTECTION, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1.6...2.5A

ENERGY AND AUTOMATION

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