



Product type designation	Product designation			Motor protection circuit breaker
Number of poles	Product type designation			
Magnetic protection	Electrical features			
Thermal protection	Number of poles		Nr.	3
Phase failure detection	Magnetic protection			yes
Rated insulation voltage Ui IEC/EN	Thermal protection			yes
Rated impulse withstand voltage Uimp Rated frequency Hz 50/60	Phase failure detection			yes
Rated frequency	Rated insulation voltage Ui IEC/EN		V	690
Thermal trip adjustment range			kV	6
Rated current (In)	Rated frequency		Hz	50/60
Magnetic tripping	Thermal trip adjustment range			11.6
Power dissipation per pole	Rated current (In)		Α	1.6
Power dissipation per pole	Magnetic tripping			13 x ln
Max W 2.30				
Operational short-circuit current breaking capacity (Ics) at AC		min	W	0.90
230V KA 100 440V KA 100 440V KA 100 500V KA 100 690V KA		max	W	2.30
A00V KA 100 440V KA 100 500V KA	Operational short-circuit current breaking capacity (Ics) at AC			
Maximum short-circuit current breaking capacity (Icu) at AC 230V kA 100 690V kA 100 69		230V	kA	100
S00V KA 100 690V KA		400V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC		440V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC 230V kA 100 400V kA 100 440V kA 100 500V kA 100 Fripping 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		500V	kA	100
230V		690V	kA	100
A00V	Maximum short-circuit current breaking capacity (Icu) at AC			
Add V KA 100 500V kA 100 690V 60V		230V	kA	100
S00V kA 100 690V kA 100 100 690V kA 10		400V	kA	100
Conductor section Cond		440V	kA	100
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		500V	kA	100
IEC Utilization category		690V	kA	100
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				10A
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	IEC Utilization category			A
Electrical life	Operations			
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 AWG/Kcmil min 16	Mechanical life		cycles	100000
Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 22 max Ibin 26.5 Max number of wires simultaneously connectable Conductor section AWG/Kcmil min 16	Electrical life		cycles	100000
min Nm 2.5 max Nm 3 min lbin 22 max lbin 26.5				
max Nm 3 min Ibin 22 max Ibin 26.5 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil min 16	Tightening torque for terminals			
min lbin 22 max lbin 26.5 Max number of wires simultaneously connectable Conductor section AWG/Kcmil min 16		min	Nm	2.5
Max number of wires simultaneously connectable Conductor section AWG/Kcmil min 16		max	Nm	
Max number of wires simultaneously connectable Conductor section AWG/Kcmil min 16		min	lbin	
Conductor section AWG/Kcmil min 16		max	lbin	26.5
AWG/Kcmil min 16	Max number of wires simultaneously connectable		Nr.	2
min 16	Conductor section			
	AWG/Kcmil			
max 8		min		
		max		8



	Flovible w/e lug conductor coetics		
	Flexible w/o lug conductor section min	mm²	1
	max	mm²	10
	Flexible c/w lug conductor section	111111	
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Screwdriver			PH2
Power terminal protect	tion according to IEC/EN 60529		IP20 on front
Cable stripping lenght			
	main circuit	mm	12
Ambient conditions			
Temperature			
	Operating temperature	0.0	00
	min	°C	-20
	Storage temperature	°C	+60
	Storage temperature min	°C	-50
	max	°C	+80
	Compensation temperature		100
	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			5 0
	at 480V	kA	50
	at 600V	kA	50
Group Motor Installatio	protection		Fuse or CB
Croup Motor Histaliallo	at 480V	kA	50
	at 600V	kA	50
	protection	10.1	Fuse or CB
Tap Conductor Protect	·		1 400 01 02
1	at 480Y/277V	kA	50
	at 600Y/347V	kA	50
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short	circuit cu	rrent
	at 240V	kA	65
	at 480Y/277V	kA	65
	at 600Y/347V	kA	50
M - '			
Maximum UL/CSA nors	sepower ratings single-phase		
Maximum UL/CSA nors	110V-120V	HP	-
	110V-120V 220V-240V	HP HP	- 1/10
	110V-120V 220V-240V sepower ratings three-phase, 3-pole	HP	- 1/10
	110V-120V 220V-240V		- 1/10 -



ENERGY AND AUTOMATION

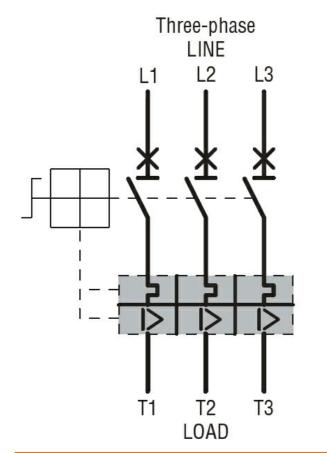
440V-480V HP 3/4 550V-600V HP 1

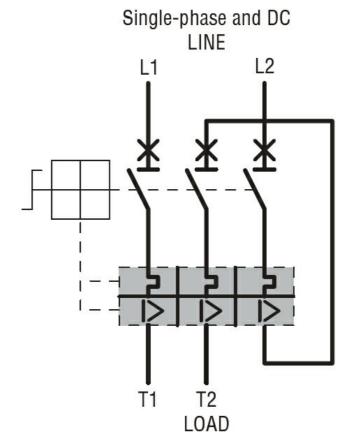
Dimensions 80.8 (3.18") -9 (0.35")D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 - (0.22") 44.8 SM1X14... 74.5 (2.93) (1.76")SM1X15... SM1X16... -85.6 (3.37") SM1X12...

Wiring diagrams

SM1X13...







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