



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features			OWITE
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			0.631
Rated current (In)		A	1
Magnetic tripping		,,	13 x ln
Power dissipation per pole			10 X III
Tomor dissipation per pero	min	W	0.85
	max	W	2.14
Operational short-circuit current breaking capacity (Ics) at AC	max	•••	
oporational orion official out of the broading dapasety (100) at 710	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC			
3 1 7 ()	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	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
	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 section	2	4
	min	mm²	1
Screwdriver	max	mm²	10 PH2
·	tion according to IFC/FN C0500		
	tion according to IEC/EN 60529		IP20 on front
Cable stripping lenght	main circuit	mm	12
Ambient conditions	main circuit	mm	12
Temperature			
remperature	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	50
	at 600V	kA	50
O Material atallatia	protection		Fuse or CB
Group Motor Installation		1. A	E0
	at 480V	kA	50 50
	at 600V	kA	50 Fuse or CB
Tap Conductor Protect	protection		Fuse UI CD
rap Conductor Frotec	at 480Y/277V	kA	50
	at 6001/277V at 600Y/347V	kA kA	50
III 508 / III 60947-4-1	Manual Self Protected Combination Motor Controller (Type E) Short of		
02000 / OE 00041-4-1	at 240V	kA	65
	at 480Y/277V	kA	65
	at 600Y/347V	kA	50
Maximum UL/CSA hor	sepower ratings single-phase		
	110V-120V	HP	-
	220V-240V	HP	-
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole	-	
	200V-208V	HP	-
	220V-240V	HP	-



ENERGY AND AUTOMATION

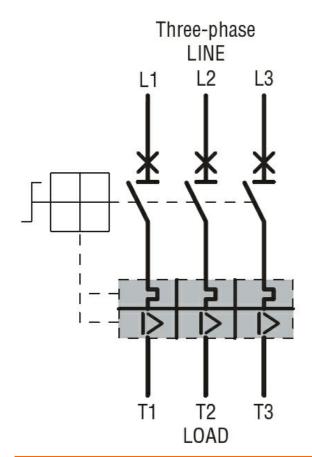
440V-480V HP 1/2 550V-600V HP 1/2

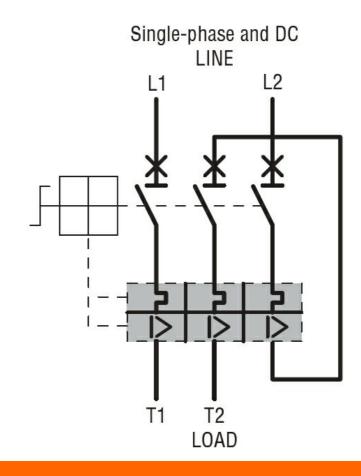
Dimensions 80.8 (3.18") -9 (0.35")D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... -85.6 (3.37") SM1X12...

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