



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			6.310
Rated current (In)		Α	10
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.03
	max	W	2.61
Operational short-circuit current breaking capacity (Ics) at AC			
3,	230V	kA	100
	400V	kA	100
	440V	kA	42
	500V	kA	42
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	42
	690V	kA	4
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	lbin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			4.0
	min		16
	max		8



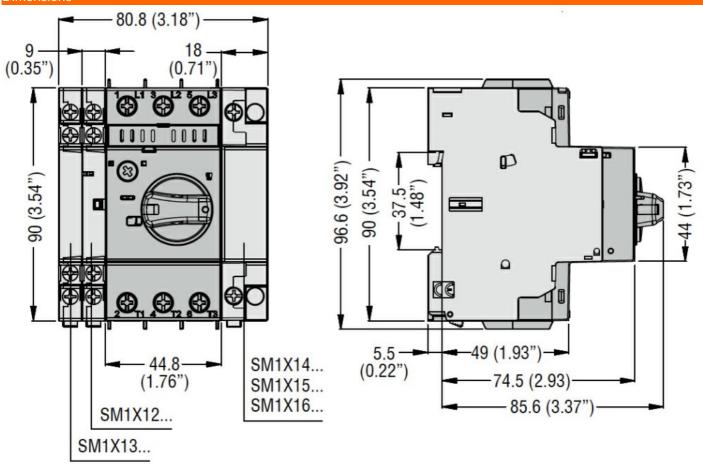


	Flexible w/o lug conductor section		
	min		1
	max	mm²	10
	Flexible c/w lug conductor section	2	4
	min	_	1 10
	Flexible with insulated spade lug conductor section		10
	riexible with insulated spade lug conductor section min	mm²	1
	max	_	10
Screwdriver			PH2
	ection according to IEC/EN 60529		IP20 on front
Cable stripping leng			
	main circuit	mm	12
Ambient conditions			
Temperature			
	Operating temperature		
	min		-20
	max	°C	+60
	Storage temperature		
	min		-50
	max	°C	+80
	Compensation temperature		
	min		-20
14 14 1	max		+50
Max altitude		m	3000
Operating position			Vartical plan
	normal allowable		Vertical plan Any
	allowable		Screw / DIN ra
Fixing			35mm
Weight		g	390
JL technical data		J	
Motor Disconnect			
	at 240V	kA	30
	at 240 v	KA	
	at 480V		30
		kA	
	at 480V at 600V protection	kA kA	30
Group Motor Installa	at 480V at 600V protection	kA kA	30 30 100A class J
Group Motor Installa	at 480V at 600V protection ation at 240V	kA kA kA	30 30 100A class J
Group Motor Installa	at 480V at 600V protection at 240V at 480V	kA kA kA kA	30 30 100A class J 30 30
Group Motor Installa	at 480V at 600V protection at 240V at 480V at 600V	kA kA kA kA kA	30 30 100A class J 30 30 30
	at 480V at 600V protection ation at 240V at 480V at 600V protection	kA kA kA kA kA	30 30 100A class J 30 30
	at 480V at 600V protection at 240V at 480V at 480V at 480V at 600V protection at 600V protection at 600V protection ection	kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J
	at 480V at 600V protection at 240V at 480V at 480V at 600V protection at 240V at 480V at 600V protection ection at 480Y/277V	kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J
Fap Conductor Prote	at 480V at 600V protection at 240V at 240V at 480V at 600V protection at 480V at 480V at 600V protection ection at 480Y/277V at 600Y/347V	kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J 65 30
Гар Conductor Prote	at 480V at 600V protection at 240V at 240V at 480V at 480V at 600V protection at 480V at 600V protection at 480Y/277V at 600Y/347V at 600Y/347V S-1 Manual Self Protected Combination Motor Controller (Type E) Short	kA kA kA kA kA kA	30 30 100A class J 30 30 30 100A class J 65 30
Гар Conductor Prot	at 480V at 600V protection at 240V at 240V at 480V at 600V protection at 240V at 480V at 600V protection ection  ection  at 480Y/277V at 600Y/347V at 600Y/347V at 240V at 240V	kA kA kA kA kA kA t circuit cu	30 30 100A class J 30 30 30 100A class J 65 30
Tap Conductor Prot	at 480V at 600V protection at 240V at 480V at 480V at 480V at 600V protection at 600V protection at 480V/277V at 600Y/347V at 600Y/347V at 240V at 480Y/277V at 480Y/27V at	kA kA kA kA kA t circuit cu kA	30 30 100A class J 30 30 30 100A class J 65 30 rrent 65 65
Tap Conductor Prote UL508 / UL 60947-4	at 480V at 600V protection at 600V protection at 240V at 480V at 480V at 600V protection at 600V protection at 480Y/277V at 600Y/347V at 480Y/277V at 480Y/277V at 480Y/277V at 600Y/347V at 600Y/347V at 600Y/347V at 600Y/347V at 600Y/347V	kA kA kA kA kA t circuit cu kA	30 30 100A class J 30 30 30 100A class J 65 30
	at 480V at 600V protection at 240V at 480V at 480V at 480V at 600V protection at 600V protection at 480V/277V at 600Y/347V at 600Y/347V at 240V at 480Y/277V at 480Y/27V at	kA kA kA kA kA t circuit cu kA kA	30 30 100A class J 30 30 30 100A class J 65 30 rrent 65 65



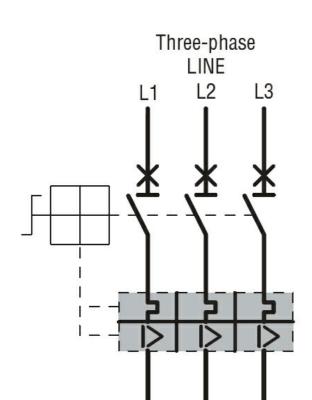
200V-208V HP 2 220V-240V HP 3 440V-480V HP 5 550V-600V HP 7.5

## Dimensions

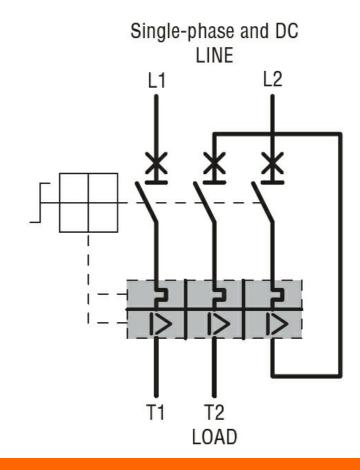


## Wiring diagrams





T1



## Certifications and compliance

Certifications

CSA C22.2 n° 14

LOAD

**T3** 

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