



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features Number of poles		Nr.	3
Magnetic protection		INI.	yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
		ΠZ	1723
Thermal trip adjustment range Rated current (In)		Λ	
		A	23
Magnetic tripping			13 x In
Power dissipation per pole		147	4.00
	min	W	1.86
	max	W	3.41
Operational short-circuit current breaking capacity (Ics) at AC	2001		4.00
	230V	kA	100
	400V	kA	25
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	10
	500V	kA	10
9	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	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8

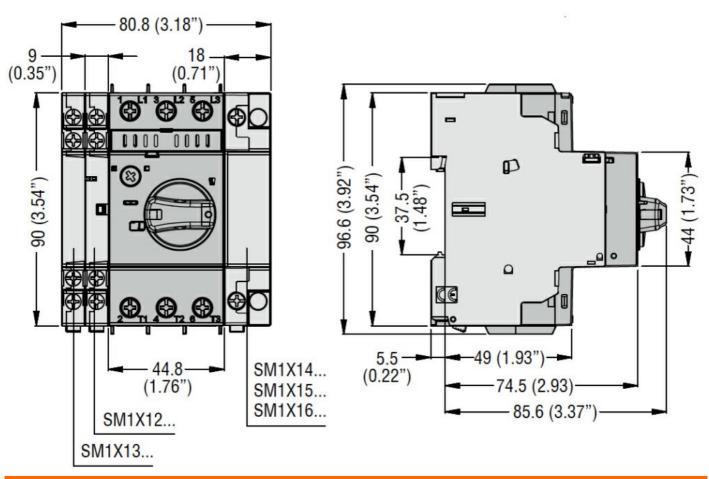




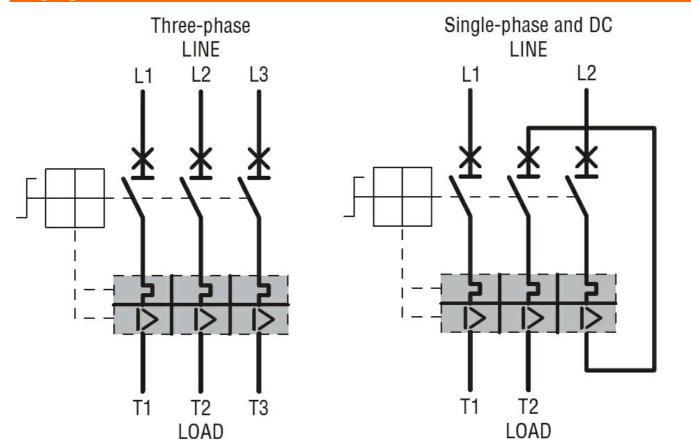
MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V,

	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
Power terminal protect	tion according to IEC/EN 60529		IP20
Cable stripping lenght			
	main circuit	mm	12
Ambient conditions			
Temperature			
	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	390
UL technical data		J	
Motor Disconnect			
	at 480V	kA	30
	at 600V	kA	30
	protection		200A class J
UL technical data	·		
	Group Motor Installation at 480V	kA	30
	Group Motor Installation at 600V	kA	30
	Group Motor Installation protection		200A class J
Maximum UL/CSA hors	sepower ratings single-phase		
	110V-120V	HP	1.5
	220V-240V	HP	3
Maximum UL/CSA hors	sepower ratings three-phase, 3-pole		
	200V-208V	HP	5
	220V-240V	HP	7.5
	440V-480V	HP	15
	550V-600V	HP	20
Dimensions			





Wiring diagrams



Certifications and compliance



SM1R2300

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V,

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