

# MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features			ONTITO
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			914
Rated current (In)		Α	14
Magnetic tripping			13 x In
Power dissipation per pole			
	min	W	1.13
	max	W	2.73
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



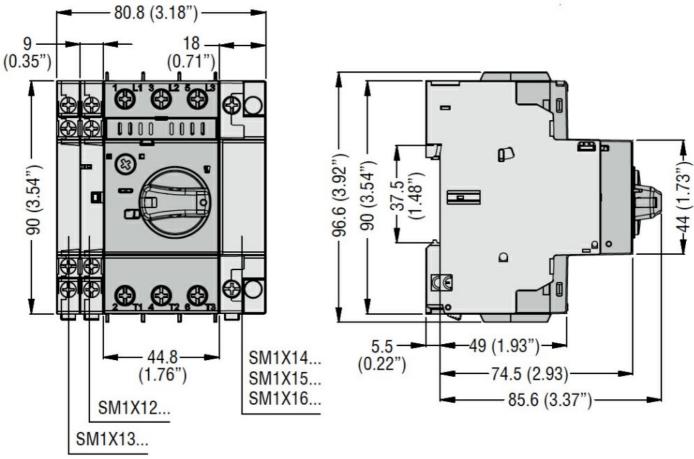


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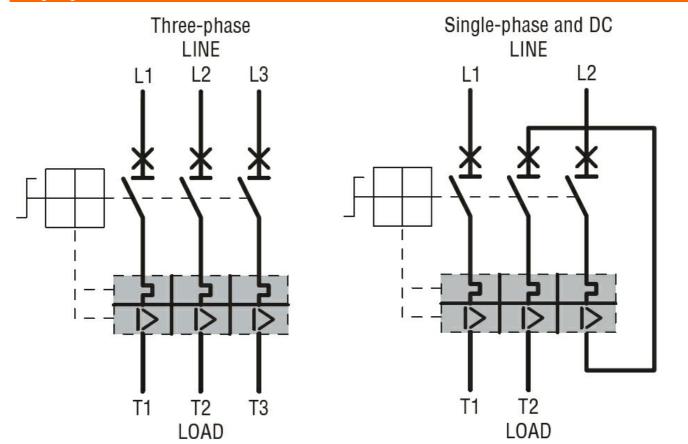
	Flexible w/o lug conductor section			_
		min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			_
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal protect	tion according to IEC/EN 60529			IP20 on front
Cable stripping lenght				_
11 0 0		main circuit	mm	12
Ambient conditions				
Temperature				
r	Operating temperature			
	et eramid remit eramen	min	°C	-20
		max	°C	+60
	Storage temperature			
	etorage temperature	min	°C	-50
		max	°C	+80
	Compensation temperature	max		
	Componication temperature	min	°C	-20
		max	°C	+50
Max altitude		тах	m	3000
Operating position				
Operating position		normal		Vertical plan
		allowable		Any
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	390
UL technical data			9	390
Motor Disconnect				
INIOTOL DISCOULECT		at 480V	kA	30
		at 460V	kA kA	30
		protection	KA	200A class J
Croup Motor Installatio	an an	protection		ZUUA CIASS J
Group Motor Installation	лі	at 480V	IzΛ	30
			kΑ	
		at 600V	kA	30
Marrian III /OOA la ar		protection		200A class J
iviaximum UL/CSA hor	sepower ratings single-phase	440) / 400) /	UB	0/4
		110V-120V	HP	3/4
		220V-240V	HP	2
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole			_
		200V-208V	HP	3
		220V-240V	HP	3
		440V-480V	HP	10
		550V-600V	HP	10
Dimensions				



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### Wiring diagrams



#### Certifications and compliance



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### SM1R1400

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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