electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 13...18A

ENERGY AND AUTOMATION



Product designation			Motor protection circuit breaker
Product type designation			SM1R
Electrical features			
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			1318
Rated current (In)		Α	18
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.34
	max	W	2.57
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	10
	500V	kA	10
	690V	kA	4
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	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8

electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 13...18A

ENERGY	AND	ALITON	MOITAN

Flexible w/o lug c	min max onductor section	mm² mm²	1 10
	onductor section max		
	onductor section	mm²	10
Flexible with insu			4
Flexible with insu	min	mm²	1
Flexible with itisu	lated spade lug conductor section	mm²	10
	min	mm²	1
	max	mm²	10
Screwdriver	max		PH2
Power terminal protection according to IE	C/EN 60529		IP20 on front
Cable stripping lenght	0,2.0		
composition of the second of t	main circuit	mm	12
Ambient conditions			
Temperature			
Operating temper	rature		
	min	°C	-20
	max	°C	+60
Storage temperat			
	min	°C	-50
	max	°C	+80
Compensation te		00	00
	min	°C	-20
Max altitude	max		+50
Operating position		m	3000
Operating position	normal		Vertical plan
	allowable		Any
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	390
UL technical data			
Motor Disconnect			
	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
	protection		200A class J
Group Motor Installation			20
	at 240V	kΑ	30
	at 480V at 600V	kA kA	30 30
	protection	ĸA	200A class J
Tap Conductor Protection	protection		200A 01033 J
Tap Conductor Frotostori	at 480Y/277V	kA	65
UL508 / UL 60947-4-1 Manual Self Protect	cted Combination Motor Controller (Type E) Short of		
	at 240V	kA	65
	at 480Y/277V	kA	65
Maximum UL/CSA horsepower ratings sin			
, 3	110V-120V	HP	1
	220V-240V	HP	3
Maximum UL/CSA horsepower ratings thr	ee-phase, 3-pole		
waxiinum obosa noisepowei ratings thi	200V-208V	HP	5
maximum ob/osa noisepower raungs thr	200 V -200 V		J

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 13...18A

ENERGY AND AUTOMATION

440V-480V HP 10 550V-600V HP 15

Dimensions 80.8 (3.18") -9 (0.35")Ø 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... SM1X13...

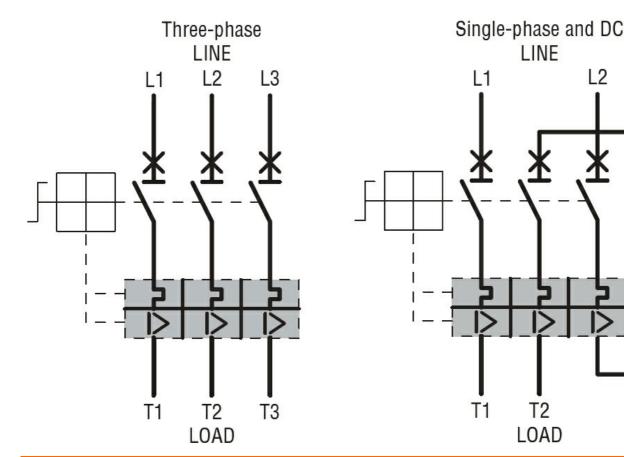
Wiring diagrams

L2

ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT

400V, 13...18A



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