

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 70...90A



Product designation				Motor protection circuit breaker
Product type designati	ion			SM3R
Electrical features				
Number of poles			Nr.	3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection	n			yes
Rated insulation voltage	ge Ui IEC/EN		V	1000
Rated impulse withsta			kV	6
Rated frequency			Hz	50/60
Thermal trip adjustmer	nt range			7090
Rated current (In)			Α	90
Magnetic tripping				13 x In
	uit current breaking capacity (Ics) at AC			_
•		230V	kA	100
		400V	kA	38
		440V	kA	30
		500V	kA	6
		690V	kA	4
Maximum short-circuit	current breaking capacity (Icu) at AC			
		230V	kA	100
		400V	kA	50
		440V	kA	40
		500V	kA	8
		690V	kA	5
Tripping class				10A
IEC Utilization categor	У			Α
Operations				
Mechanical life			cycles	50000
Electrical life			cycles	25000
Mechanical features				
Tightening torque for to	erminals			
		min	Nm	4.5
		max	Nm	4.5
		min	lbin	4.4
		max	lbin	4.4
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		min		18
		max		3
	Flexible c/w lug conductor section			
		min	mm²	10
		max	mm²	50

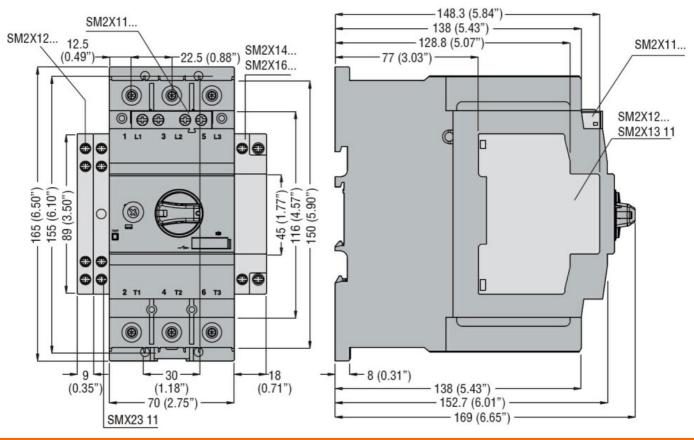




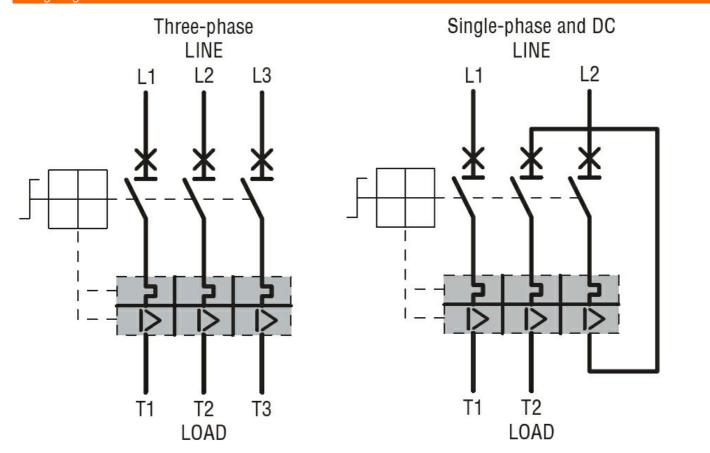
MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V,

Flexible with insulated spade lug conductor			
	or section		
	min	mm²	10
	max	mm²	50
Screwdriver			Allen 4mm
Power terminal protection according to IEC/EN 60529			IP20
Cable stripping lenght			
	main circuit	mm	1
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
	max	°C	+70
Storage temperature			
	min	°C	-50
	max	°C	+80
Compensation temperature			
•	min	°C	-50
	max	°C	+40
Max altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		Any
			Screw / DIN rail
Fixing			35mm
Weight		g	2200
UL technical data			
Motor Disconnect			
	at 480V	kA	40
	at 600V	kA	10
	protection		Fuse or CB
Group Motor Installation	· · · · · · · · · · · · · · · · · · ·		
GIOUD MOLOI INSTALIATION			
Group Wotor Installation	at 480V	kA	40
Group Wotor Installation	at 480V at 600V	kA kA	40 10
Group Wotor Installation	at 600V	kA kA	10
Tap Conductor Protection	at 600V protection	kA	10 Fuse or CB
	at 600V protection at 480Y/277V	kA kA	10 Fuse or CB
Tap Conductor Protection	at 600V protection at 480Y/277V at 600Y/347V	kA kA kA	10 Fuse or CB 40 10
	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short c	kA kA kA ircuit cur	10 Fuse or CB 40 10 rrent
Tap Conductor Protection	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V	kA kA kA ircuit cur kA	10 Fuse or CB 40 10 Trent 100
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor C	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short c	kA kA kA ircuit cur	10 Fuse or CB 40 10 rrent
Tap Conductor Protection	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V at 480Y/277V	kA kA ka ircuit cur kA kA	10 Fuse or CB 40 10 Trent 100 40
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor C	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short controller (Type E) at 240V at 480Y/277V	kA kA kA ircuit cur kA kA	10 Fuse or CB 40 10 Trent 100 40
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Company Maximum UL/CSA horsepower ratings single-phase	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V at 480Y/277V	kA kA ka ircuit cur kA kA	10 Fuse or CB 40 10 Trent 100 40
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor C	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short controller (480Y/277V) at 480Y/277V 110V-120V 220V-240V	kA kA ircuit cur kA kA HP	10 Fuse or CB 40 10 Trent 100 40 7½ 20
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Company Maximum UL/CSA horsepower ratings single-phase	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V at 480Y/277V 110V-120V 220V-240V 200V-208V	kA kA kA ircuit cur kA kA HP HP	10 Fuse or CB 40 10 Trent 100 40 7½ 20
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Company Maximum UL/CSA horsepower ratings single-phase	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V at 480Y/277V 110V-120V 220V-240V 200V-208V 220V-240V	kA kA ircuit cur kA kA HP HP	10 Fuse or CB 40 10 Trent 100 40 7½ 20 25 30
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Combination Motor Combination Maximum UL/CSA horsepower ratings single-phase	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V at 480Y/277V 110V-120V 220V-240V 200V-208V 220V-240V 440V-480V	kA kA ircuit cur kA kA HP HP HP	10 Fuse or CB 40 10 Trent 100 40 7½ 20 25 30 60
Tap Conductor Protection UL508 / UL 60947-4-1 Manual Self Protected Combination Motor (Maximum UL/CSA horsepower ratings single-phase	at 600V protection at 480Y/277V at 600Y/347V Controller (Type E) Short of at 240V at 480Y/277V 110V-120V 220V-240V 200V-208V 220V-240V	kA kA ircuit cur kA kA HP HP	10 Fuse or CB 40 10 Trent 100 40 7½ 20 25 30





Wiring diagrams



Certifications and compliance

Certifications



SM3R9000

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 70...90A

CSA C22.2 n° 14			
IEC/EN 60947-1			
IEC/EN 60947-1			
IEC/EN 60947-4-1			
UL508			
cULus			
EAC			

ETIM classification

ETIM 8.0

Compliance

EC000074 -Motor protection circuit-breaker