



Product designation			Motor protection circuit breaker
Product type designation			SM3R
Electrical features			Cimore
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			7090
Rated current (In)		Α	90
Magnetic tripping			13 x ln
Power dissipation per pole			
	max	W	7
Operational short-circuit current breaking capacity (Ics) at AC			<u> </u>
Cporanonal orion on our orion or orion group (100) at 710	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 category			A
Operations			
Mechanical life		cycles	50000
Electrical life		cycles	25000
Mechanical features			
Tightening torque for terminals			
	min	Nm	4.5
	max	Nm	4.5
	min	lbin	4.4
	max	lbin	4.4
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		18
	max		3
Flexible c/w lug conductor section			

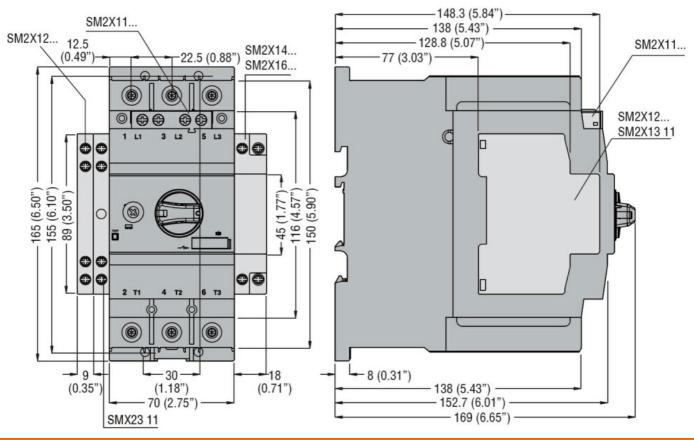




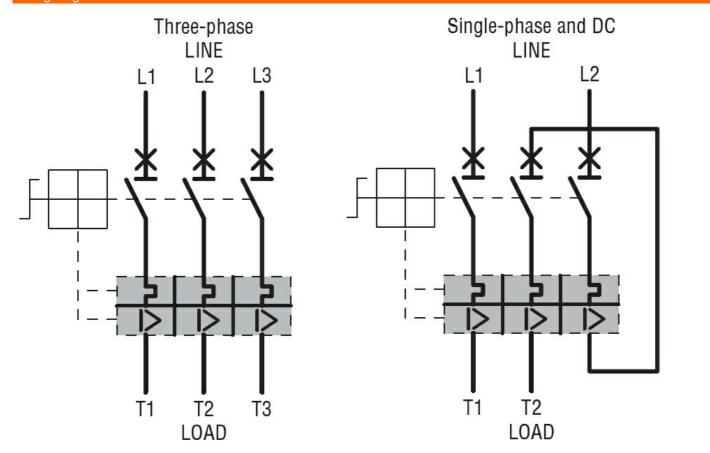
# MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 70...90A

	min	mm²	10
	max	mm²	50
	Flexible with insulated spade lug conductor section		
	min	mm²	10
0	max	mm²	50
Screwdriver	"		Allen 4mm
	ction according to IEC/EN 60529		IP20
Cable stripping lenght			4
Ambient conditions	main circuit	mm	1
Temperature	Operating temperature		
	Operating temperature min	°C	-20
	max	°C	+70
	Storage temperature		+70
	Storage temperature min	°C	-50
	max	°C	+80
	Compensation temperature		
	min	°C	-50
	max	°C	+40
Max altitude		m	3000
Operating position			
3,	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
UL technical data			
	Group Motor Installation at 480V	kA	40
	Group Motor Installation at 600V	kA	10
-	Group Motor Installation protection		Fuse or CB
Tap Conductor Protect			
	at 480Y/277V	kA	40
	at 600Y/347V	kA	10
UL508 / UL 60947-4-1	1 Manual Self Protected Combination Motor Controller (Type E) Short of		
	at 240V	kA	100
	at 480Y/277V	kA	40
Maximum UL/CSA ho	rsepower ratings single-phase		
	110V-120V	HP	7½
	220V-240V	HP	20
Maximum UL/CSA ho	rsepower ratings three-phase, 3-pole		
	200V-208V	HP	25
	220V-240V	HP	30
	440V-480V	HP	60
	550V-600V	HP	75
Dimensions			





### 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