



Product designation	Motor protection circuit breaker		
Product type designation	SM3R		
Electrical features			
Number of poles	Nr.	3	
Magnetic protection		yes	
Thermal protection		yes	
Phase failure detection		yes	
Rated insulation voltage U_i IEC/EN	V	1000	
Rated impulse withstand voltage U_{imp}	kV	6	
Rated frequency	Hz	50/60	
Thermal trip adjustment range		80...100	
Rated current (I_n)	A	100	
Magnetic tripping		13 x I_n	
Operational short-circuit current breaking capacity (I_{cs}) at AC			
	230V	kA	100
	400V	kA	38
	440V	kA	30
	500V	kA	6
	690V	kA	4
Maximum short-circuit current breaking capacity (I_{cu}) 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			
	min	mm ²	10
	max	mm ²	50

Flexible with insulated spade lug conductor section

	min	mm ²	10
	max	mm ²	50
Screwdriver			Allen 4mm
Power terminal protection according to IEC/EN 60529			IP20
Cable stripping length	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
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Operating position

normal allowable	Vertical plan Any
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Fixing

Screw / DIN rail
35mm

Weight

g 2200

UL technical data

Motor Disconnect

at 480V	kA	40
at 600V	kA	10
protection		Fuse or CB

Group Motor Installation

at 480V	kA	40
at 600V	kA	10
protection		Fuse or CB

Tap Conductor Protection

at 480Y/277V	kA	40
at 600Y/347V	kA	10

UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current

at 240V	kA	100
at 480Y/277V	kA	40

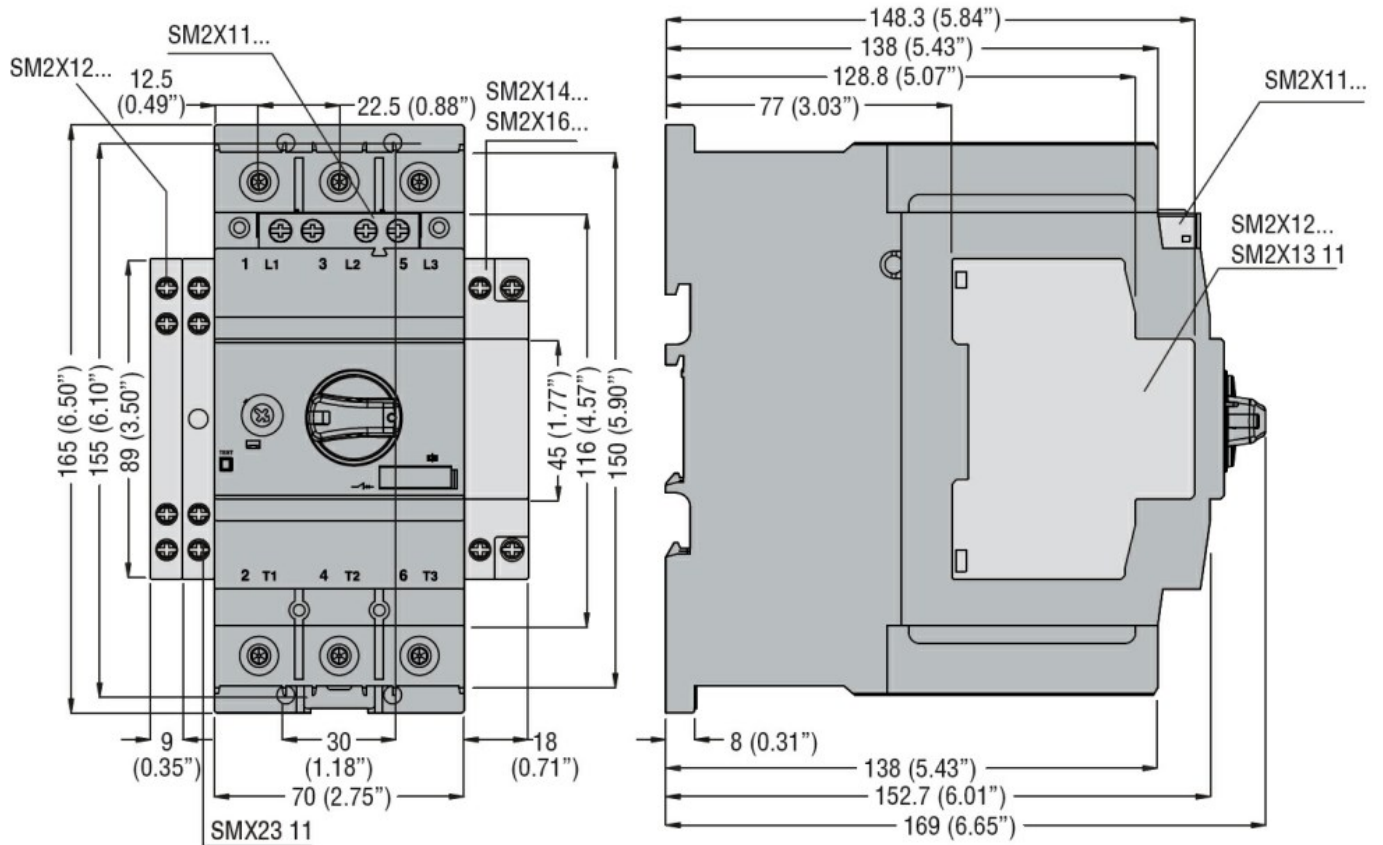
Maximum UL/CSA horsepower ratings single-phase

110V-120V	HP	10
220V-240V	HP	20

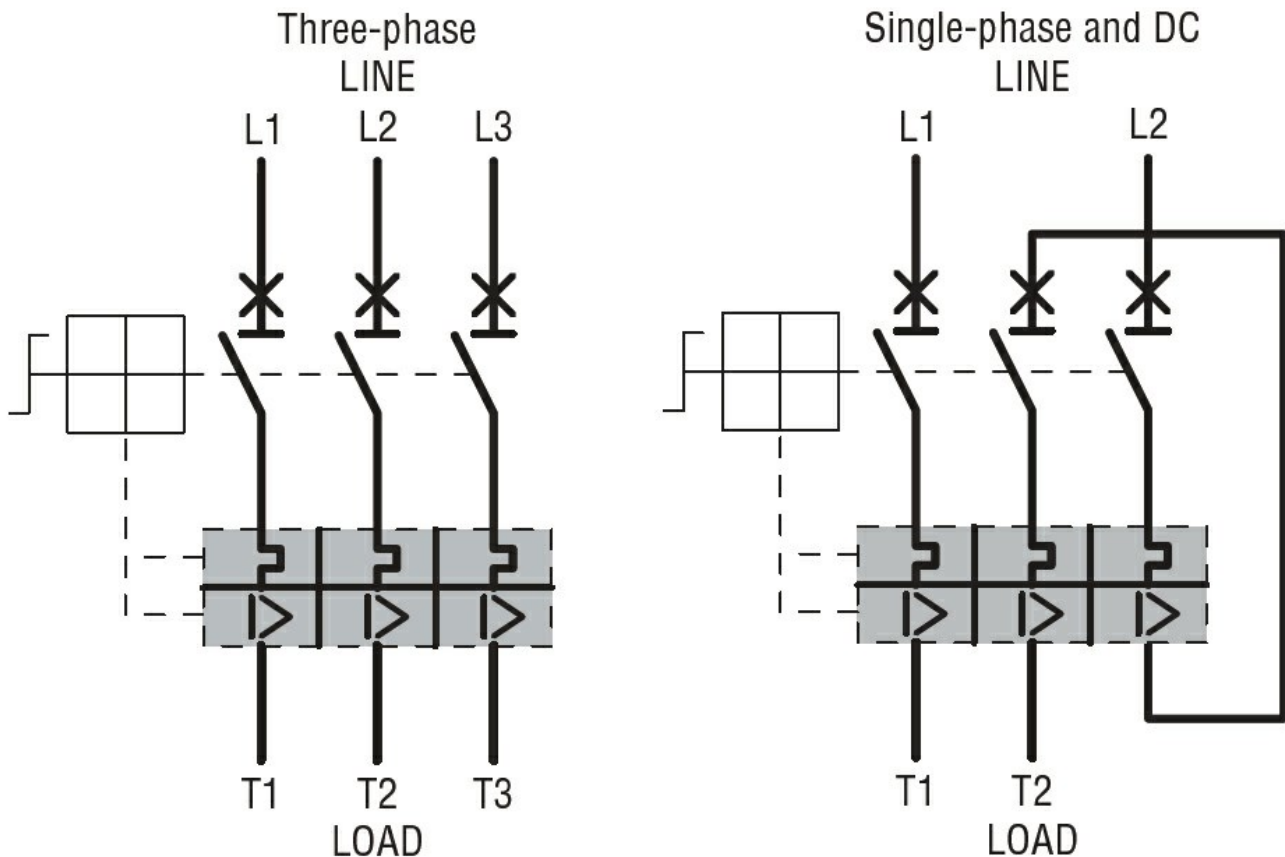
Maximum UL/CSA horsepower ratings three-phase, 3-pole

200V-208V	HP	30
220V-240V	HP	30
440V-480V	HP	75
550V-600V	HP	100

Dimensions



Wiring diagrams



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