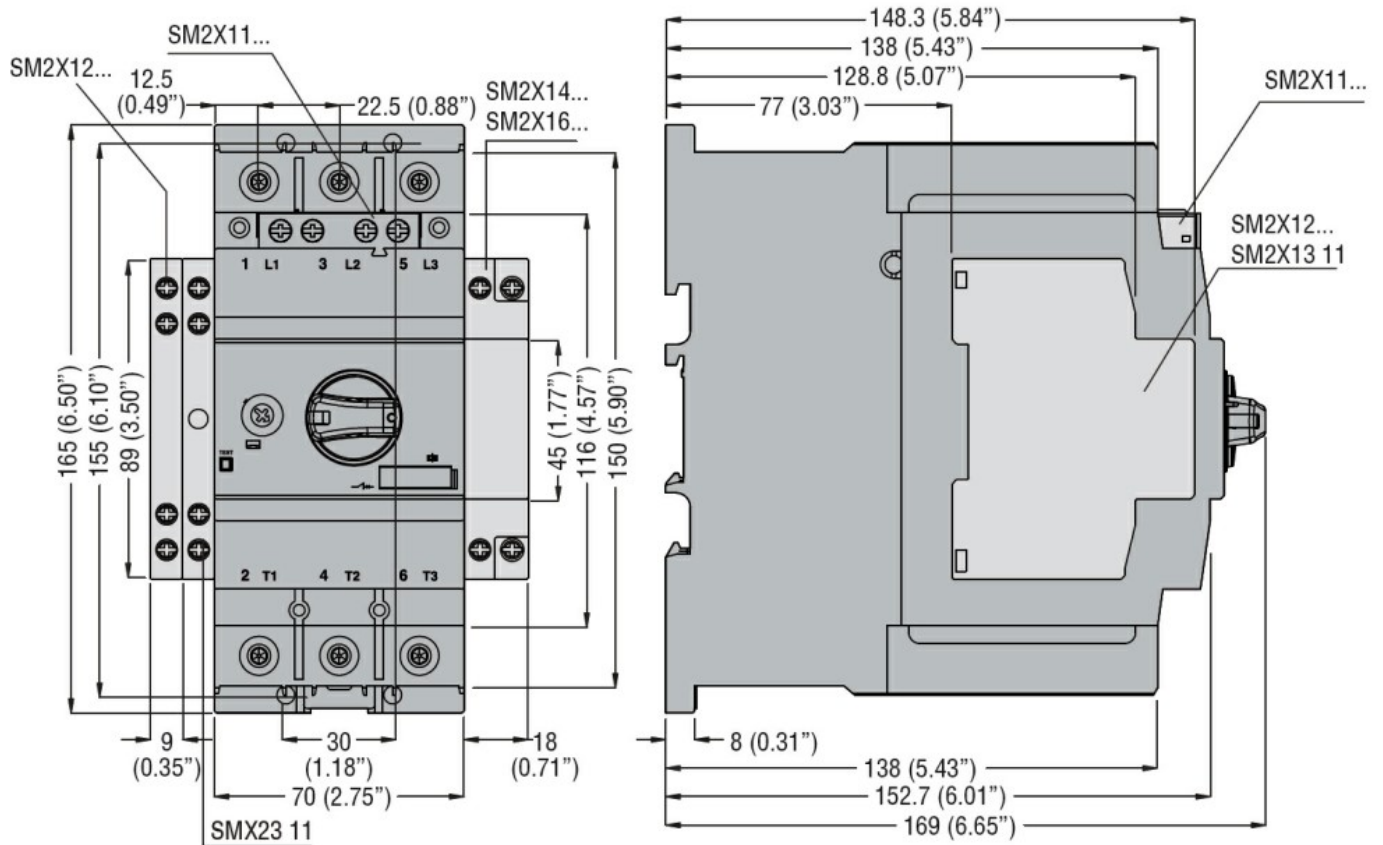




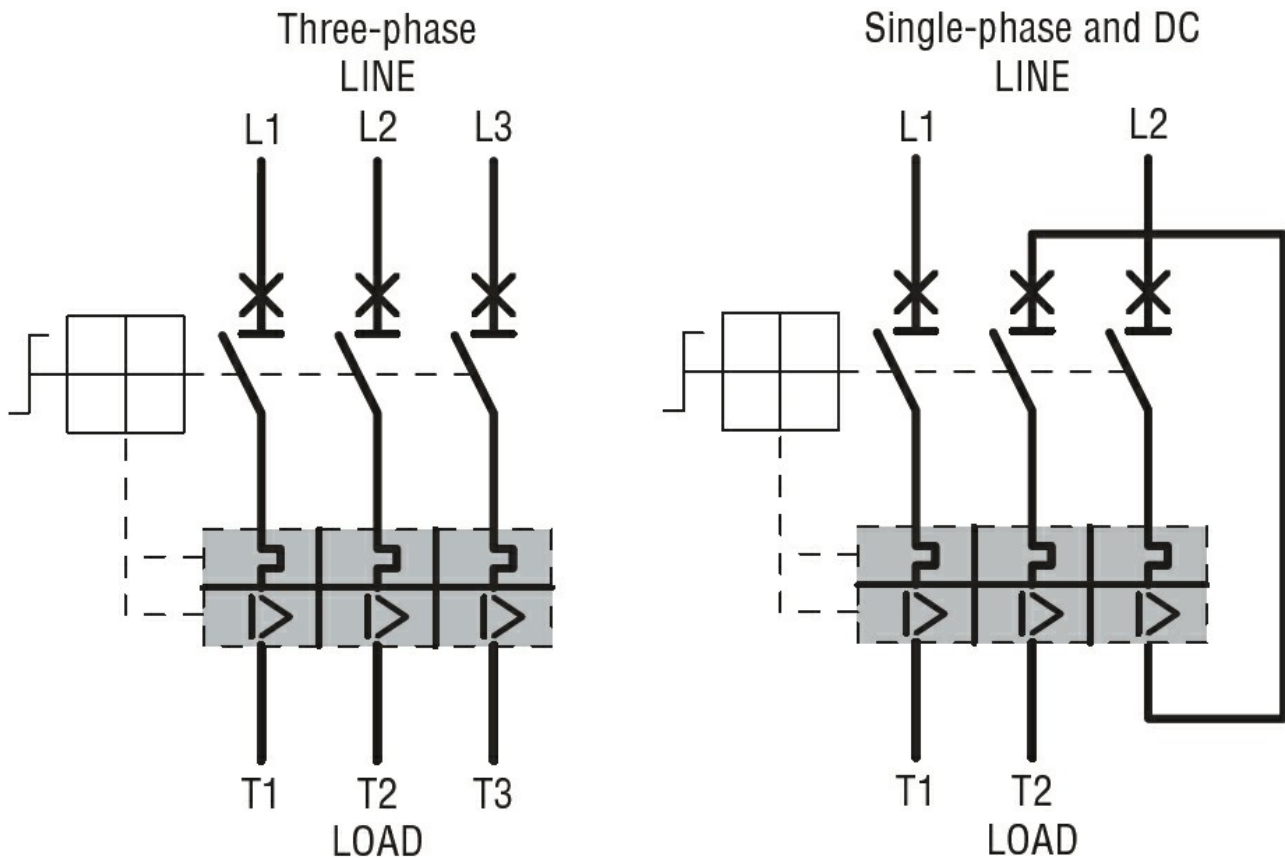
Product designation				Motor protection circuit breaker SM3R
Product type designation				SM3R
Electrical features				
Number of poles	Nr.			3
Magnetic protection				yes
Thermal protection				yes
Phase failure detection				yes
Rated insulation voltage U_i IEC/EN	V			1000
Rated impulse withstand voltage 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
Power dissipation per pole	max	W	7	
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
Operating position			
	normal allowable		Vertical plan Any
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