

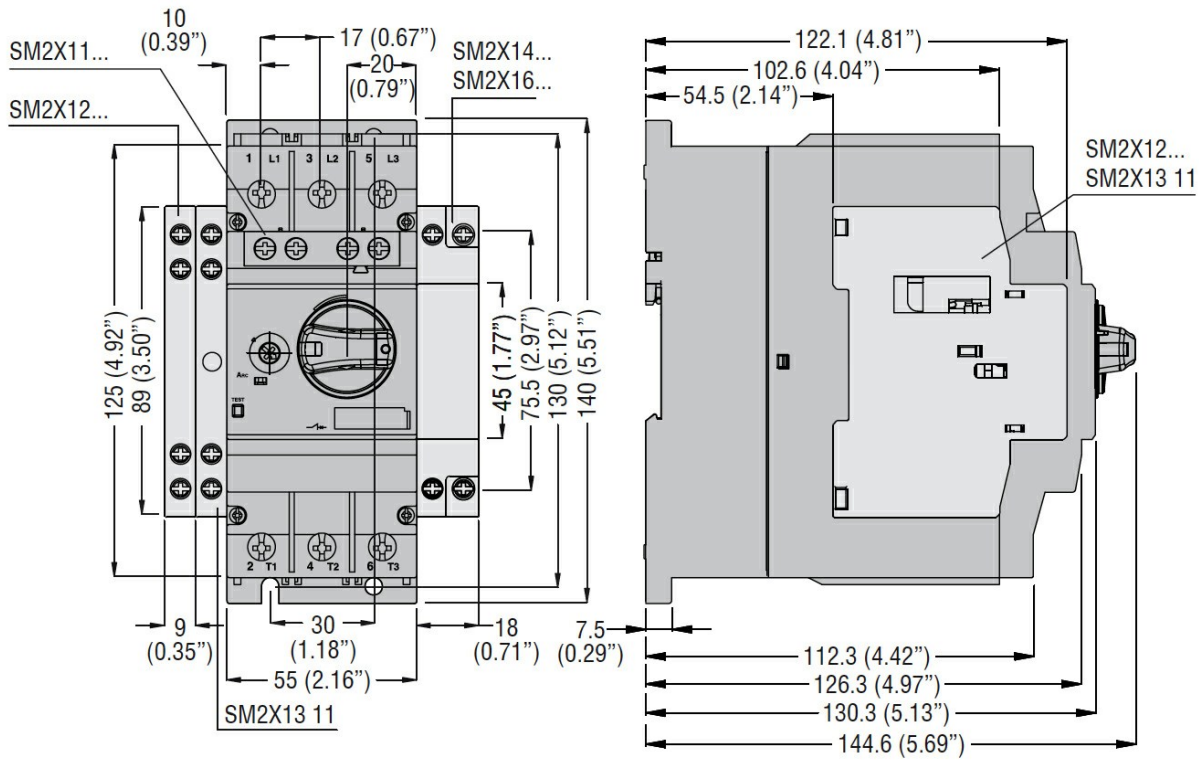


Motor protective circuit breaker
SM2R

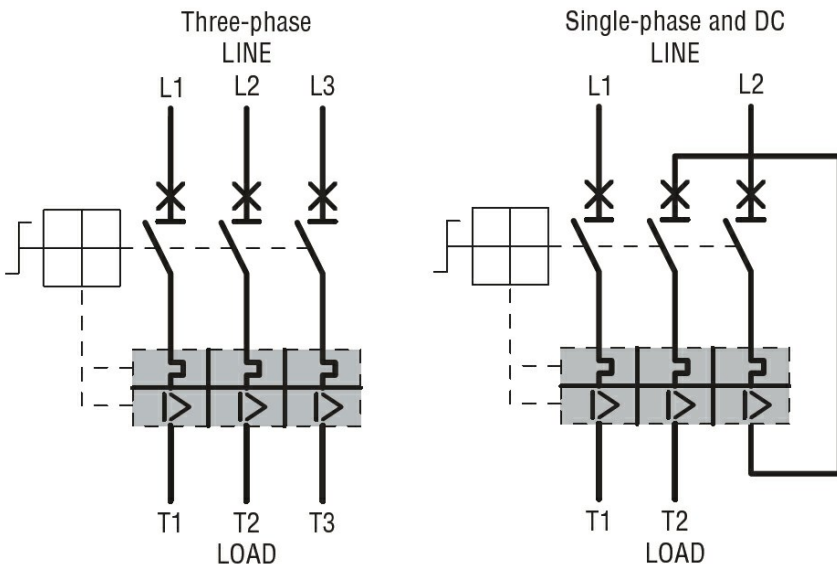
Product designation			
Product type designation			
Electrical features			
Number of poles		nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage U_i IEC/EN		V	1000
Rated impulse withstand voltage U_{imp}		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			34...50
Rated current (I_n)		A	50
Magnetic tripping			13 x I_n
Operational short-circuit current breaking capacity (I_{cs}) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	27
	500V	kA	8
	690V	kA	5
Maximum short-circuit current breaking capacity (I_{cu}) at AC			
	230V	kA	100
	400V	kA	50
	440V	kA	35
	500V	kA	10
	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	3.3
	max	lbin	3.3
Max number of wires simultaneously connectable			
Conductor section		nr.	2
AWG/Kcmil			
	min		18
	max		3
Flexible w/o lug conductor section			
	min	mm ²	0.75
	max	mm ²	25
Flexible c/w lug conductor section			
	min	mm ²	0.75
	max	mm ²	25
Flexible with insulated spade lug conductor section			
	min	mm ²	0.75
	max	mm ²	25
Screwdriver			PZ2
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		Vertical plan
	allowable		Any
Fixing			Screw / DIN rail 35mm
Weight		g	1000
UL technical data			
Motor Disconnect			

	at 480V protection	kA	50
	at 600V protection	kA	10
Group Motor Installation			Fuse or CB
	at 480V protection	kA	50
	at 600V protection	kA	10
Tap Conductor Protection			Fuse or CB
	at 480Y/277V	kA	50
	at 600Y/347V	kA	10
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current			
	UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current at 240V	kA	10
	UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current at 480V	kA	10
Maximum UL/CSA horsepower ratings single-phase			
	110V-120V	hp	3
	220V-240V	hp	10
Maximum UL/CSA horsepower ratings three-phase, 3-pole			
	200V-208V	hp	15
	220V-240V	hp	15
	440V-480V	hp	30
	550V-600V	hp	40

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