

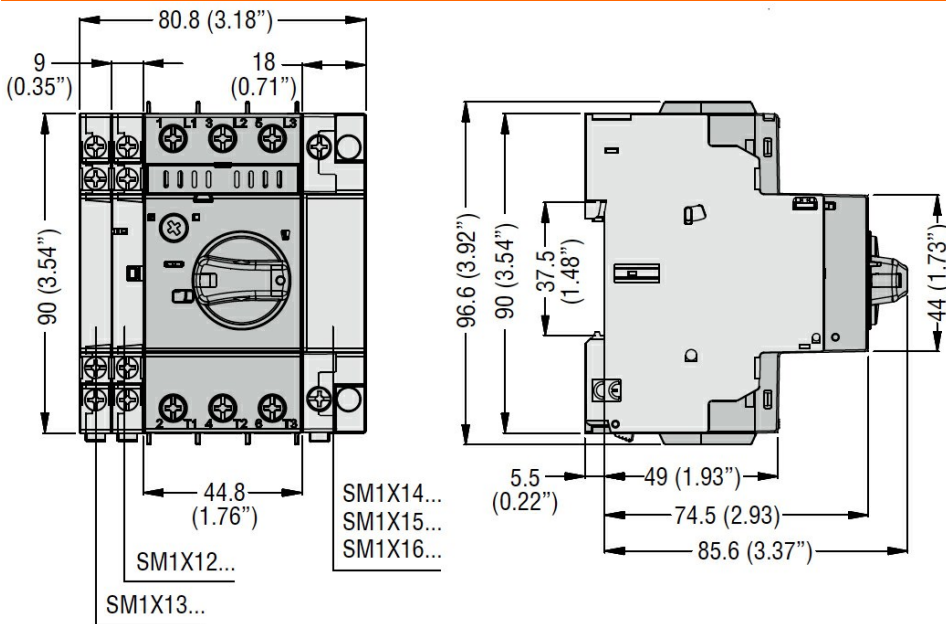


Motor protective circuit
breaker
SM1R

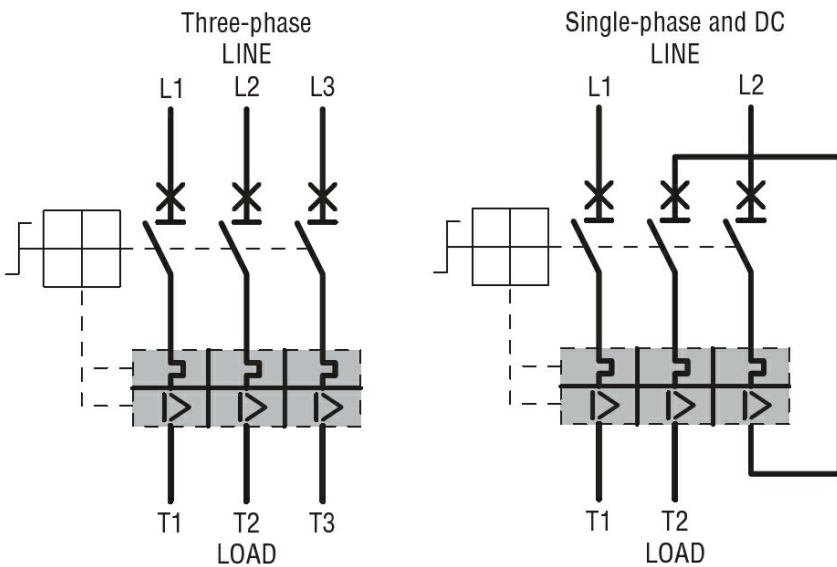
Product designation			
Product type designation			
Electrical features			
Number of poles		nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			Yes
Rated insulation voltage U_i IEC/EN		V	690
Rated impulse withstand voltage U_{imp}		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			0.1...0.16
Rated current (I_n)		A	0.16
Magnetic tripping			10 x I_n
Total power dissipation		W	2.07
Operational short-circuit current breaking capacity (I_{cs}) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Maximum short-circuit current breaking capacity (I_{cu}) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Max number of wires simultaneously connectable			
Conductor section			
AWG/Kcmil			
	min		16
	max		8
Flexible w/o lug conductor section			
	min	mm ²	1
Flexible c/w lug conductor section			
	min	mm ²	1
Flexible with insulated spade lug conductor section			
	min	mm ²	1
Screwdriver			
Power terminal protection according to IEC/EN 60529			
Cable stripping length			
	main circuit	mm	1
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
	max	°C	60
Storage temperature			
	min	°C	-50
	max	°C	80
Compensation temperature			
	min	°C	-20
	max	°C	50
Max altitude			
Operating position			
	normal		Vertical plan
	allowable		Any
Fixing			
Weight			
		g	320
UL technical data			
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current			
Motor Disconnect			
	at 480V	kA	50

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

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

Compliance	UL508
	cULus
	EAC

ETIM 6 classification