



Contact characteristics

Number of poles	Nr.	3		
Rated insulation voltage U_i IEC/EN	V	1000		
Rated impulse withstand voltage U_{imp}	kV	8		
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	115		
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	400V	A	100	
	600V	A	80	
	800V	A	65	
	1000V	A	60	
Short-time allowable current for 10s (IEC/EN60947-1)	A	640		
Protection fuse	gG (IEC)	A	125	
	aM (IEC)	A	80	
Resistance per pole (average value)	m Ω	0.6		
Power dissipation per pole (average value)	I_{th}	W	7.9	
	Tightening torque for terminals			
	min	Nm	4	
	max	Nm	5	
	min	lbin	2.95	
	max	lbin	3.69	
Tightening torque for coil terminal	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	
	max	lbin	0.74	
Max number of wires simultaneously connectable	Nr.	2		
Conductor section	AWG/Kcmil		max	2
	Flexible w/o lug conductor section			
	min	mm ²	1.5	
	max	mm ²	35	
Flexible c/w lug conductor section	min	mm ²	1.5	
	max	mm ²	35	
Power terminal protection according to IEC/EN 60529			IP20 front	

Mechanical features

Operating position	normal allowable	Vertical plan $\pm 30^\circ$
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Fixing				Screw / DIN rail 35mm
Weight	g			12476
Operations				
Mechanical life	cycles			15000000
Safety related data				
Performance level B10d according to EN/ISO 13489-1	mechanical load	cycles	15000000	
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz	V			230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consumption at 20°C				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤20°C 50Hz	W			5
Max cycles frequency				
Mechanical operation	cycles/h			3600
Operating times				
Average time for Us control				
	in AC			
		Closing NO		
		min	ms	12
		max	ms	28
		Opening NO		
		min	ms	8
		max	ms	22
	in DC			
		Closing NO		
		min	ms	40
		max	ms	85
		Opening NO		
		min	ms	20

max ms 55

UL technical data

Rated operational voltage AC (UL) V 600

General USE

Contactor

AC current A 115

4 poles in series DC1

600V A 100

Ambient conditions

Temperature

Operating temperature

min °C -50

max °C 70

Storage temperature

min °C -60

max °C 80

Max altitude

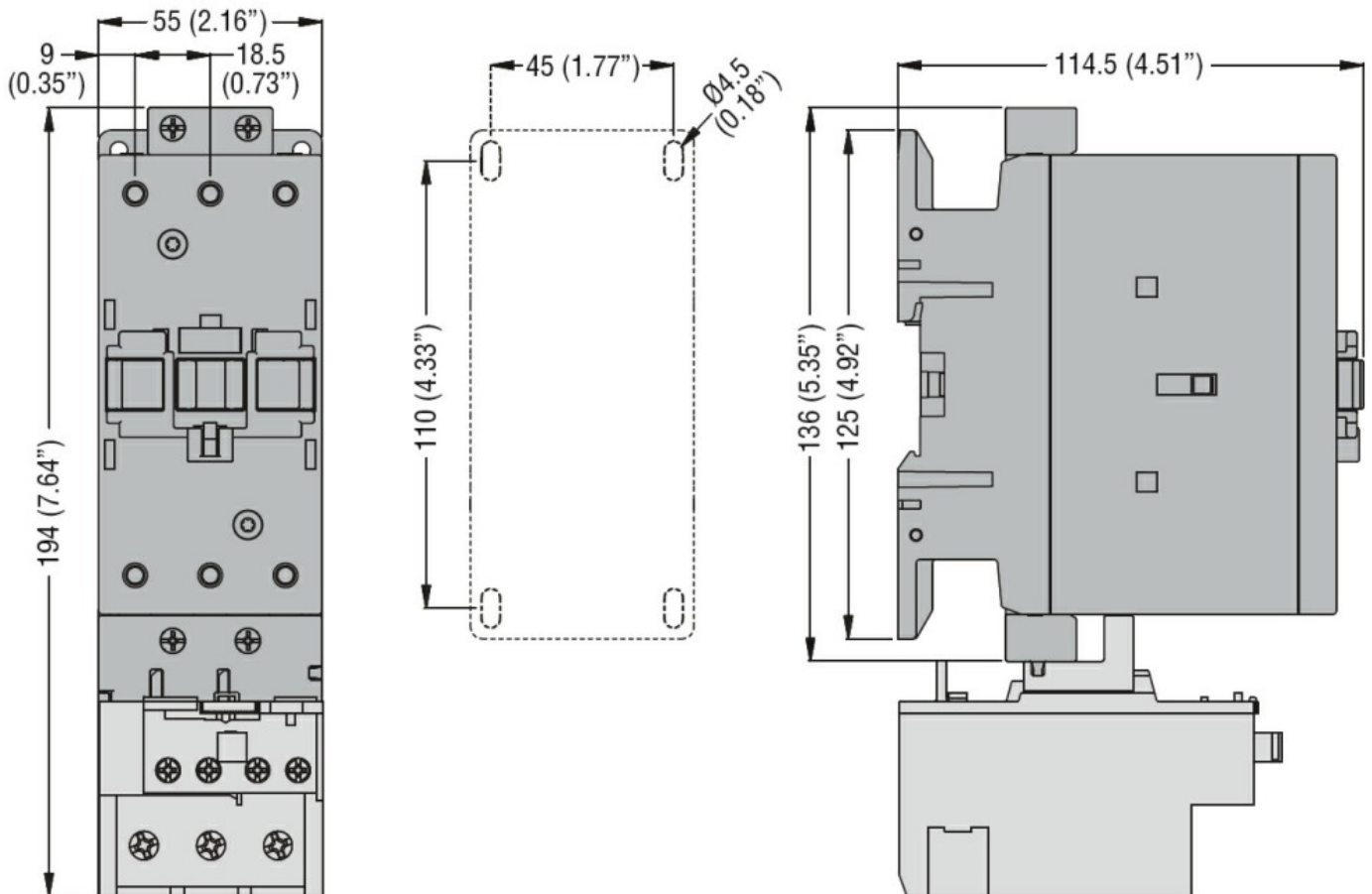
m 3000

Resistance & Protection

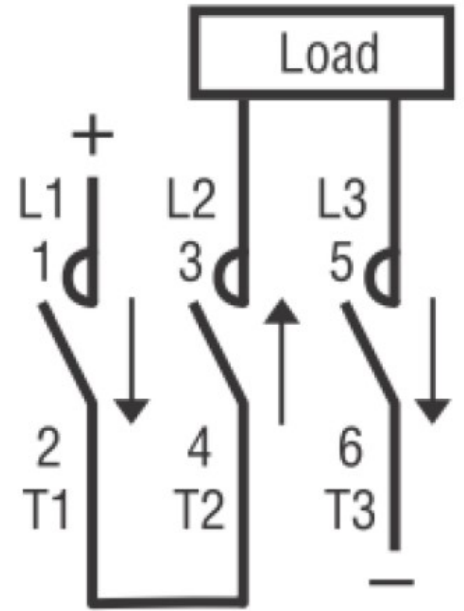
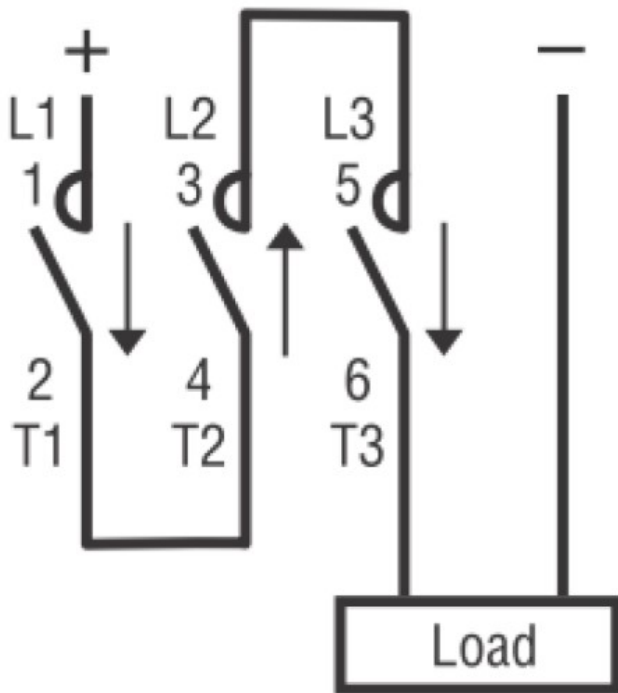
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

ETIM classification

ETIM 8.0

EC002552 -
 Power contactor,
 DC switching