



Contact characteristics

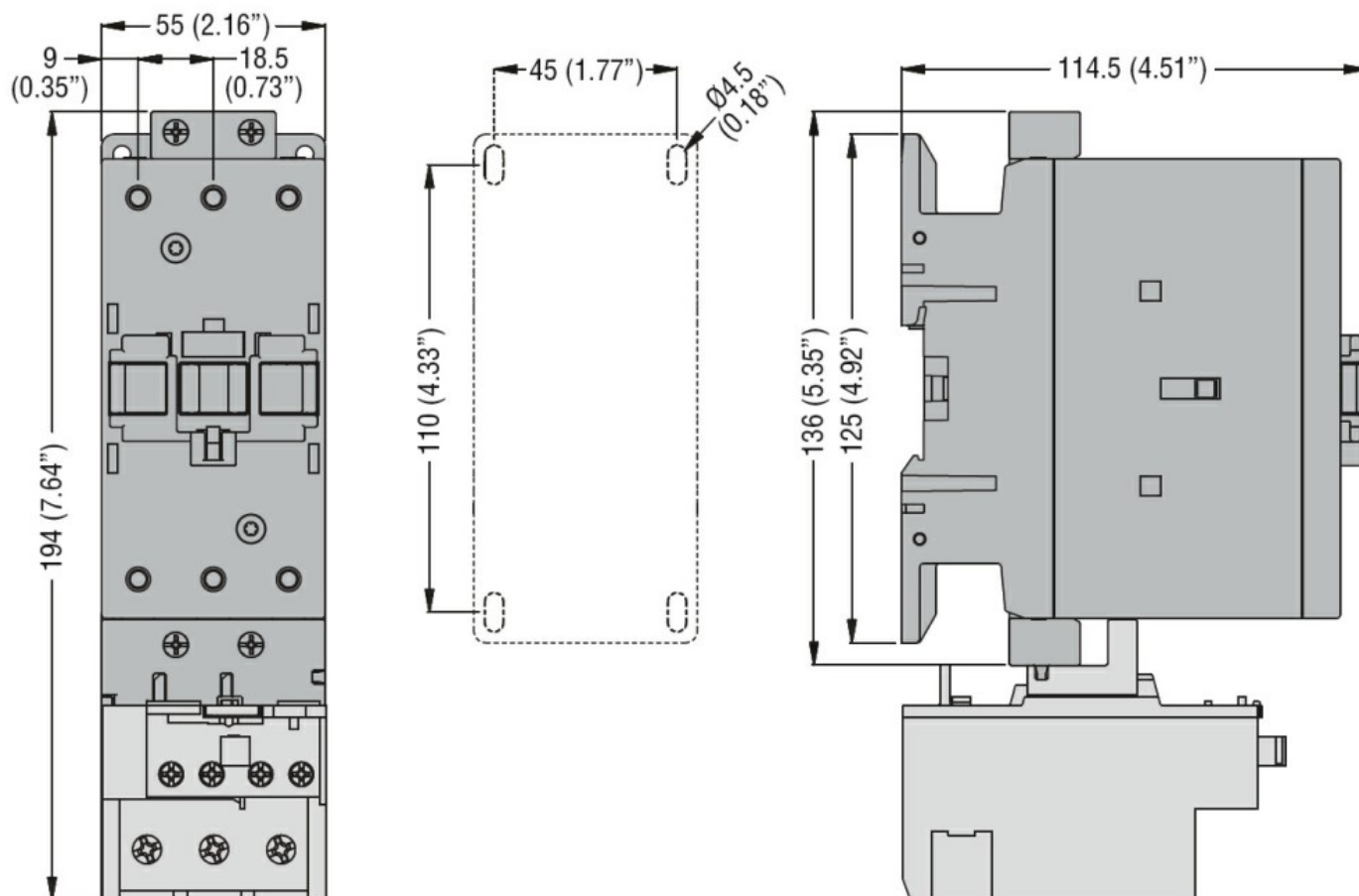
Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	1000
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	115
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	400V	A 100
	600V	A 75
	800V	A 45
	1000V	A 35
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)	mΩ	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

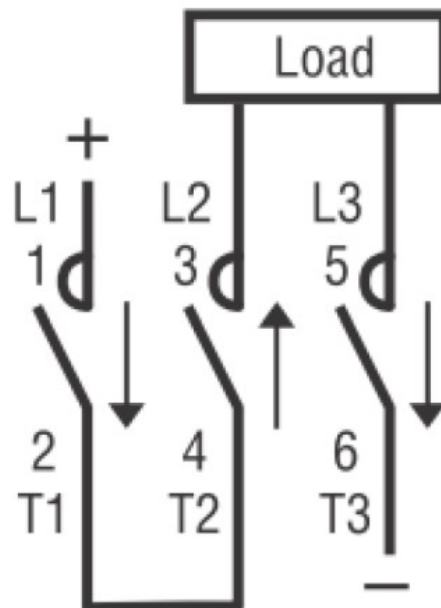
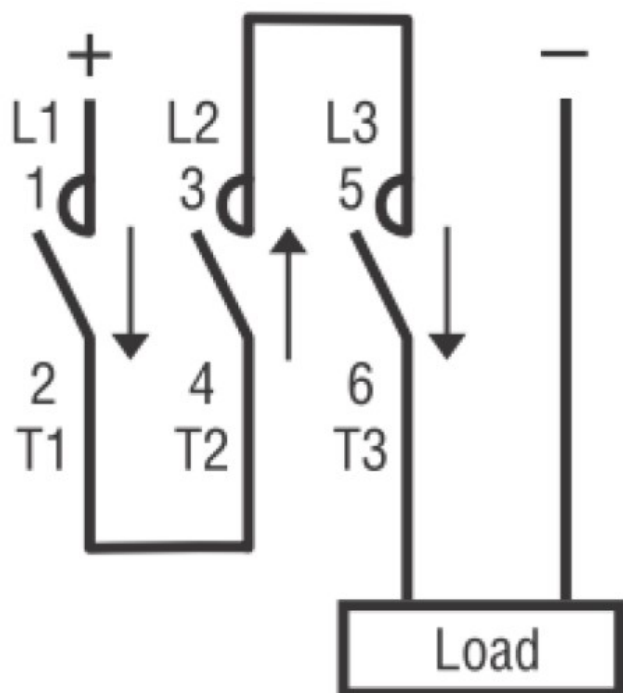
Operating position	normal allowable	Vertical plan ±30°
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Fixing			Screw / DIN rail 35mm	
Weight		g	12476	
Operations				
Mechanical life		cycles	15000000	
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		mechanical load	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