



### 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
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 115
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 95
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 80
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 80
	AC-4 (400V)	A 38
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW 22
	400V	kW 45
	415V	kW 45
	440V	kW 45
	500V	kW 55
	690V	kW 55
	1000V	kW 37
Rated operational current AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	A 80
	400V	A 80
	415V	A 80
	440V	A 80
	500V	A 78
	690V	A 57
	1000V	A 28
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 43
	400V	kW 76
	500V	kW 95
	690V	kW 120
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A 70
	48V	A 60
	75V	A 60
	110V	A 8
	220V	A –
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A 100
	48V	A 100
	75V	A 100

	110V	A	80
	220V	A	9
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IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	A	100
	48V	A	100
	75V	A	100
	110V	A	85
	220V	A	95
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IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	100
	48V	A	100
	75V	A	100
	110V	A	100
	220V	A	115
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	40
	48V	A	30
	75V	A	30
	110V	A	3
	220V	A	–
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	60
	48V	A	50
	75V	A	50
	110V	A	40
	220V	A	5
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	80
	48V	A	70
	75V	A	70
	110V	A	60
	220V	A	64
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	90
	48V	A	90
	75V	A	90
	110V	A	75
	220V	A	80
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Short-time allowable current for 10s (IEC/EN60947-1)		A	640
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Protection fuse			
	gG (IEC)	A	125
	aM (IEC)	A	80
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Making capacity (RMS value)		A	800
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Breaking capacity at voltage			
	440V	A	640
	500V	A	625
	690V	A	456
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Resistance per pole (average value)		mΩ	0.6
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Power dissipation per pole (average value)			
	I <sub>th</sub>	W	7.9
	AC-3	W	3.8
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Tightening torque for terminals			
	min	Nm	4

		max	Nm	5	
		min	Ibin	2.95	
		max	Ibin	3.69	
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Tightening torque for coil terminal					
		min	Nm	0.8	
		max	Nm	1	
		min	Ibin	0.8	
		max	Ibin	0.74	
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Max number of wires simultaneously connectable				Nr.	2
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Conductor section					
	AWG/Kcmil				
		max		2	
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Flexible w/o lug conductor section					
		min	mm <sup>2</sup>	1.5	
		max	mm <sup>2</sup>	35	
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Flexible c/w lug conductor section					
		min	mm <sup>2</sup>	1.5	
		max	mm <sup>2</sup>	35	
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Power terminal protection according to IEC/EN 60529				IP20 front	
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<b>Mechanical features</b>					
Operating position					
		normal allowable		Vertical plan ±30°	
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Fixing				Screw / DIN rail 35mm	
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Weight				g 1020	
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<b>Operations</b>					
Mechanical life				cycles 15000000	
Electrical life				cycles 1300000	
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<b>Safety related data</b>					
Performance level B10d according to EN/ISO 13489-1					
		rated load	cycles	1300000	
		mechanical load	cycles	15000000	
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EMC compatibility				yes	
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<b>AC coil operating</b>					
Rated AC voltage at 50/60Hz				V 400	
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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	
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	of 50/60Hz coil powered at 60Hz				
	pick-up				
		min	%Us	85	
		max	%Us	110	
	drop-out				
		min	%Us	40	
		max	%Us	55	
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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 $\leq 20^{\circ}\text{C}$ 50Hz		W	5
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	3600
<b>Operating times</b>			
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
<b>UL technical data</b>			
Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor			
		at 480V	A 77
		at 600V	A 77
Yielded mechanical performance			
for three-phase AC motor			
		200/208V	HP 25
		220/240V	HP 30
		460/480V	HP 60
		575/600V	HP 75
General USE			
Contactor		AC current	A 115
Short-circuit protection fuse, 600V			
High fault		Short circuit current	kA 100
		Fuse rating	A 200
		Fuse class	J
Standard fault		Short circuit current	kA 10
		Fuse rating	A 200
		Fuse class	RK5
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
		min	$^{\circ}\text{C}$ -50
		max	$^{\circ}\text{C}$ 70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

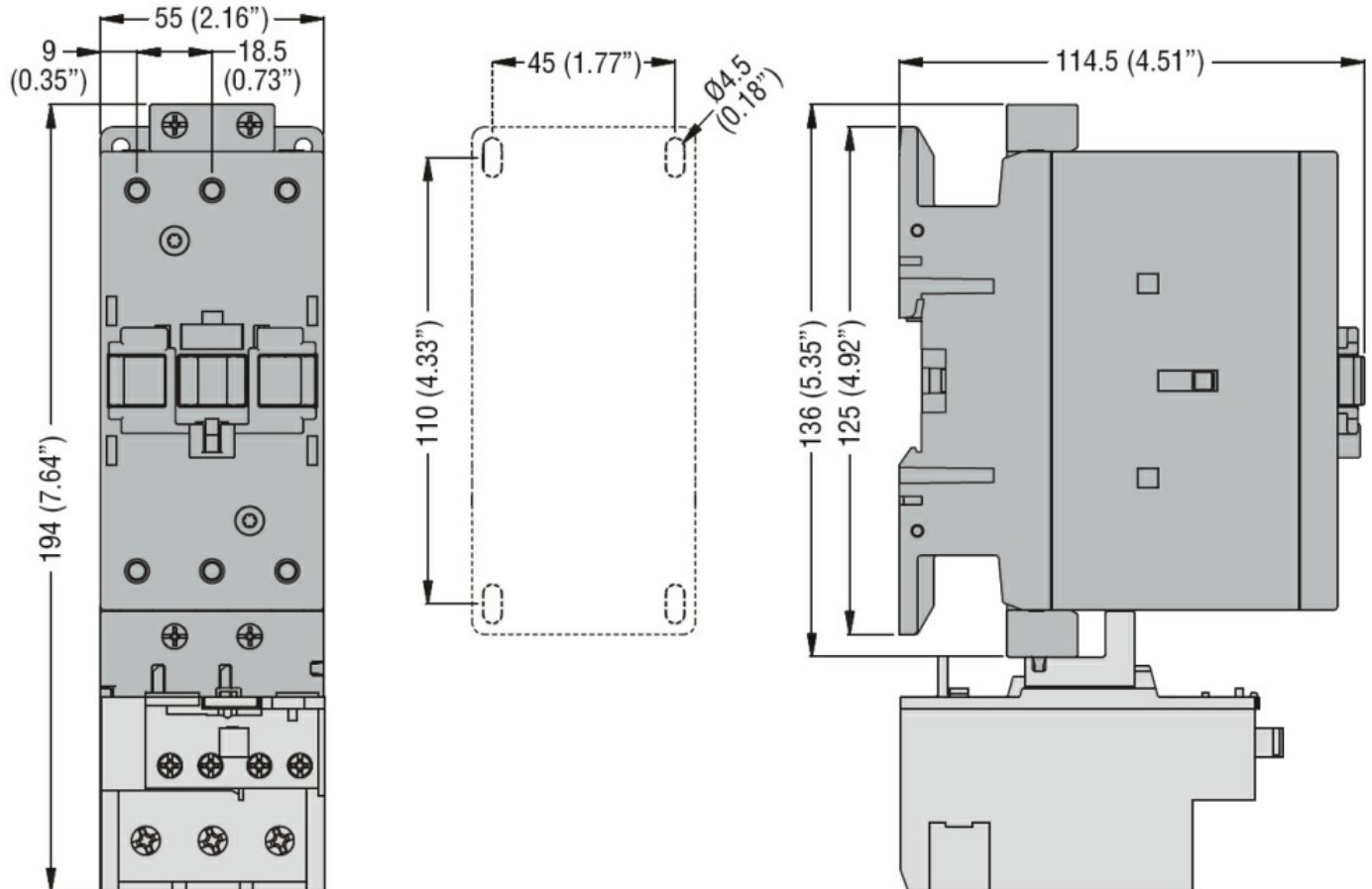
m 3000

**Resistance & Protection**

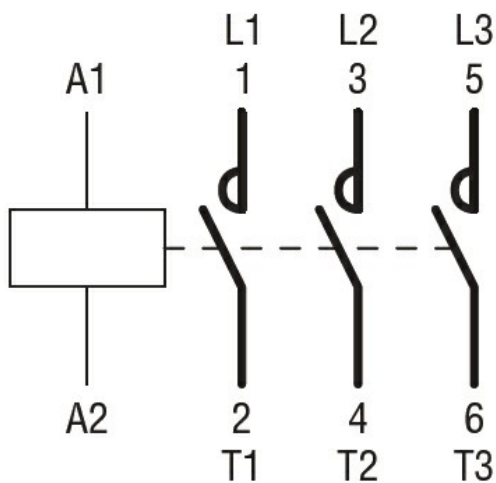
Pollution degree

3

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

Compliance

CSA C22.2 n° 60947-1

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CSA C22.2 n° 60947-4-1

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IEC/EN 60335-2-89

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IEC/EN/BS 60947-1

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IEC/EN/BS 60947-4-1

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UL 60947-1

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UL 60947-4-1

Certificates

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CCC

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CSA C22.2 n. 60335-2-40:22 LZGH A2L

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CSA C22.2 No. 60335-2-89:21 LZGH A2L

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UL 60335-2-40 LZGH A2L

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UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching