



Contact characteristics			
Number of poles	Nr.		3
Rated insulation voltage U <sub>i</sub> IEC/EN	V		1000
Rated impulse withstand voltage U <sub>imp</sub>	kV		8
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I <sub>th</sub> ≤ 40°C	A		70
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A	70
	AC-1 (≤55°C)	A	60
	AC-1 (≤70°C)	A	50
	AC-3 (≤440V ≤55°C)	A	40
	AC-4 (400V)	A	24
Rated operational power AC-3 (T≤55°C)	230V	kW	11
	400V	kW	18.5
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	22
Rated operational current AC-3 (T≤55°C)	230V	A	40
	400V	A	40
	415V	A	40
	440V	A	40
	500V	A	33
	690V	A	32
	1000V	A	21
Rated operational power AC-1 (T≤40°C)	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A	40
	48V	A	35
	75V	A	30
	110V	A	8
	220V	A	–
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A	48
	48V	A	48
	75V	A	45

	110V	A	42
	220V	A	5
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IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	A	48
	48V	A	48
	75V	A	48
	110V	A	44
	220V	A	56
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IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	–
	48V	A	–
	75V	A	–
	110V	A	–
	220V	A	70
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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	27
	48V	A	23
	75V	A	19
	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	32
	48V	A	30
	75V	A	27
	110V	A	22
	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	40
	48V	A	40
	75V	A	38
	110V	A	27
	220V	A	32
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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	–
	48V	A	–
	75V	A	–
	110V	A	–
	220V	A	40
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Short-time allowable current for 10s (IEC/EN60947-1)		A	400
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Protection fuse			
	gG (IEC)	A	100
	aM (IEC)	A	50
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Making capacity (RMS value)		A	400
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Breaking capacity at voltage			
	440V	A	320
	500V	A	265
	690V	A	256
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Resistance per pole (average value)		mΩ	0.8
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Power dissipation per pole (average value)			
	I <sub>th</sub>	W	3.9
	AC-3	W	1.3
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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	1500000
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<b>Safety related data</b>				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	1500000
		mechanical load	cycles	15000000
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EMC compatibility				
				yes
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<b>AC coil operating</b>				
Rated AC voltage at 60Hz				
			V	230
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AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
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AC average coil consumption at 20°C				
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
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Dissipation at holding ≤20°C 50Hz				
			W	5
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<b>Max cycles frequency</b>				
Mechanical operation				
			cycles/h	3600
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<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

**UL technical data**

Rated operational voltage AC (UL)	V	600
Full-load current (FLA) for three-phase AC motor	at 480V	A 40
	at 600V	A 32
Yielded mechanical performance		
for single-phase AC motor		
	110/120V	HP 3
	230V	HP 7.5
for three-phase AC motor		
	200/208V	HP 10
	220/240V	HP 15
	460/480V	HP 30
	575/600V	HP 30

**General USE**

Contactor	AC current	A	70
	Short-circuit protection fuse, 600V		
High fault	Short circuit current	kA	100
	Fuse rating	A	150
	Fuse class		J
Standard fault	Short circuit current	kA	5
	Fuse rating	A	150
	Fuse class		RK5

**Ambient conditions**

**Temperature**

Operating temperature	min	°C	-50
	max	°C	70
Storage temperature	min	°C	-60
	max	°C	80

**Max altitude**

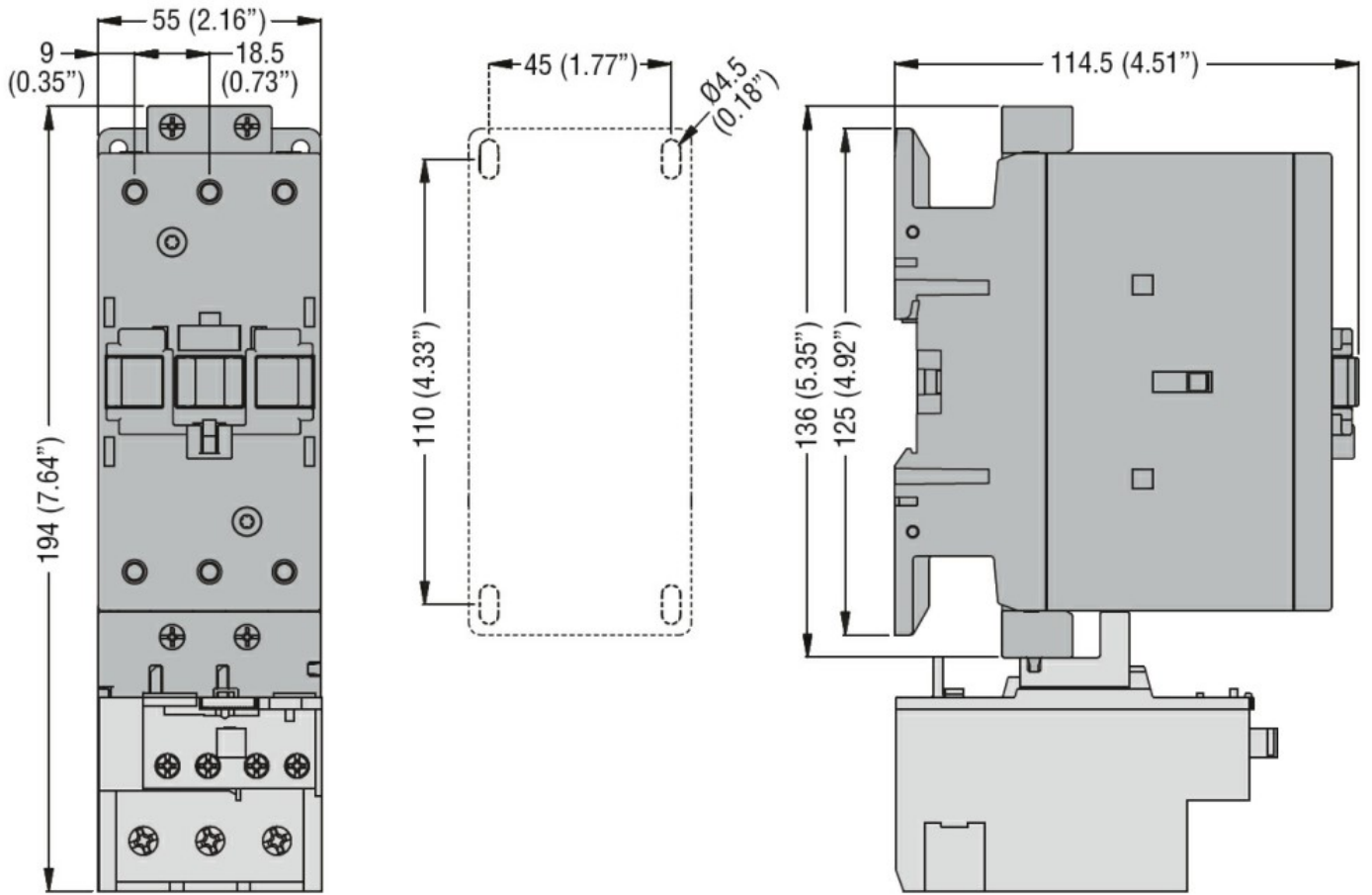
m 3000

**Resistance & Protection**

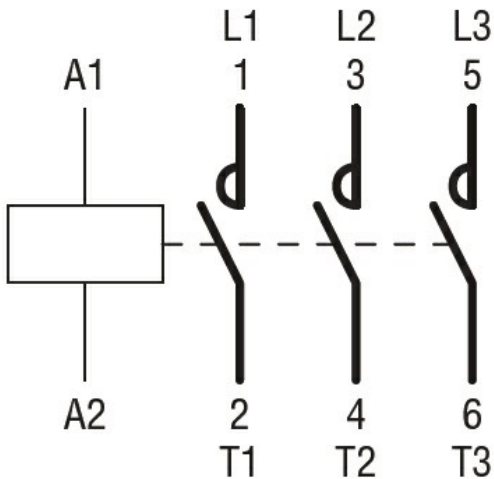
**Pollution degree**

3

**Dimensions**



### Wiring diagrams



### Certifications and compliance

#### Compliance

CSA C22.2 n° 60947-1  
 CSA C22.2 n° 60947-4-1  
 IEC/EN 60335-2-89  
 IEC/EN/BS 60947-1  
 IEC/EN/BS 60947-4-1  
 UL 60947-1  
 UL 60947-4-1

#### Certificates

CCC

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

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

cULus

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching