



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 $I_{th} \leq 40^\circ C$	A	70
Operational current I_e	AC-1 ($\leq 40^\circ C$)	A 70
	AC-1 ($\leq 55^\circ C$)	A 60
	AC-1 ($\leq 70^\circ C$)	A 50
	AC-3 ($\leq 440V \leq 55^\circ C$)	A 40
	AC-4 (400V)	A 24
Rated operational power AC-3 ($T \leq 55^\circ C$)	230V	kW 11
	400V	kW 18.5
	415V	kW 22
	440V	kW 22
	500V	kW 22
	690V	kW 30
	1000V	kW 30
Rated operational current AC-3 ($T \leq 55^\circ C$)	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 ($T \leq 40^\circ C$)	230V	kW 26
	400V	kW 46
	500V	kW 58
	690V	kW 79
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 1 poles in series	$\leq 24V$	A 40
	48V	A 35
	75V	A 30
	110V	A 8
	220V	A -
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 2 poles in series	$\leq 24V$	A 48
	48V	A 48
	75V	A 45

	110V	A	42
	220V	A	5
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IEC max current I _e 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 _e 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 _e 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 _e 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 _e 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 _e 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 _{th}	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 ²	1.5
		max	mm ²	35
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Flexible c/w lug conductor section				
		min	mm ²	1.5
		max	mm ²	35
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Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
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Fixing				Screw / DIN rail
				35mm
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Weight				g
				1020
Operations				
Mechanical life				cycles
				15000000
Electrical life				cycles
				1500000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	1500000
		mechanical load	cycles	15000000
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EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz				V
				48
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AC operating voltage				
of 50/60Hz coil powered at 50Hz				
pick-up				
		min	%Us	80
		max	%Us	110
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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
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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
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
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

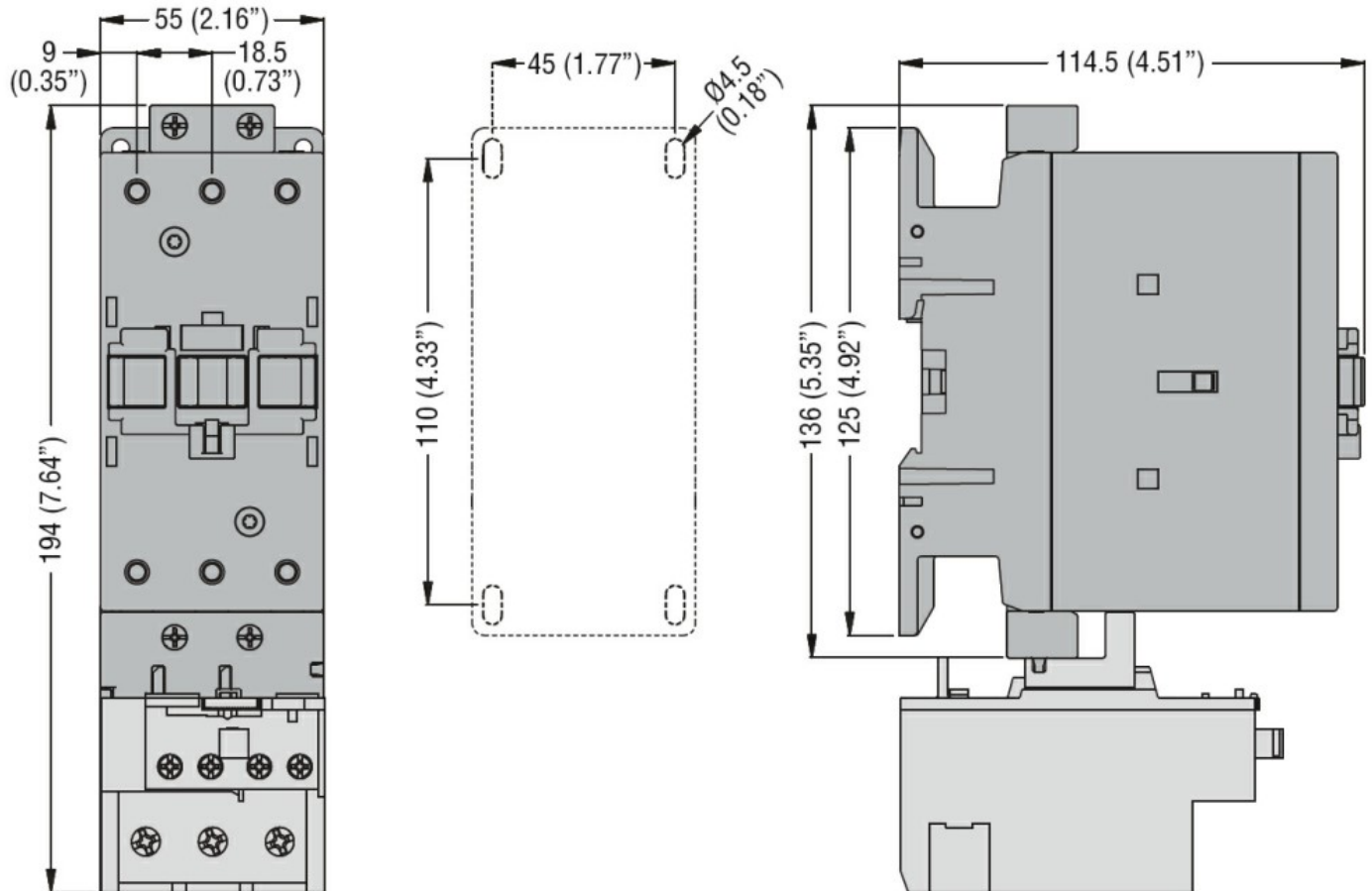
m	3000
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Resistance & Protection

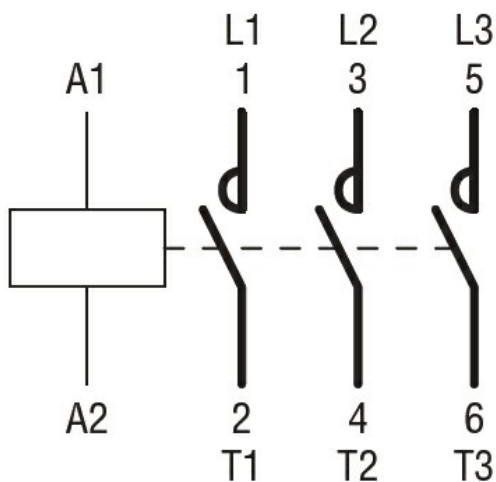
Pollution degree

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