



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} ≤ 40°C	A	115
Operational current I _e	AC-1 (≤40°C)	A 115
	AC-1 (≤55°C)	A 95
	AC-1 (≤70°C)	A 80
	AC-3 (≤440V ≤55°C)	A 95
	AC-4 (400V)	A 45
Rated operational power AC-3 (T≤55°C)	230V	kW 30
	400V	kW 55
	415V	kW 55
	440V	kW 55
	500V	kW 55
	690V	kW 55
	1000V	kW 37
Rated operational current AC-3 (T≤55°C)	230V	A 94
	400V	A 94
	415V	A 94
	440V	A 94
	500V	A 78
	690V	A 57
	1000V	A 28
IEC max current I _e in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A 77
	48V	A 66
	75V	A 66
	110V	A 8
	220V	A –
IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A 110
	48V	A 110
	75V	A 110
	110V	A 90
	220V	A 9
IEC max current I _e in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	A 110
	48V	A 110

	75V	A	110
	110V	A	93
	220V	A	95
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IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	115
	48V	A	115
	75V	A	115
	110V	A	110
	220V	A	115
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	45
	48V	A	33
	75V	A	33
	110V	A	3
	220V	A	–
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	65
	48V	A	55
	75V	A	55
	110V	A	43
	220V	A	5
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	86
	48V	A	75
	75V	A	75
	110V	A	64
	220V	A	64
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	96
	48V	A	95
	75V	A	95
	110V	A	80
	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	100
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Making capacity (RMS value)		A	950
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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)			
	Ith	W	7.9
	AC-3	W	5.4
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Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	3
	max	Ibin	3.7
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Tightening torque for coil terminal			
	min	Nm	0.8

	max	Nm	1
	min	I _{bin}	0.59
	max	I _{bin}	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
		Flexible w/o lug conductor section	
	min	mm ²	1.5
	max	mm ²	35
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Operating position			
		normal allowable	Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	1100000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
		rated load	cycles
		mechanical load	cycles
			1100000
			15000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	48
AC operating voltage			
		of 50/60Hz coil powered at 50Hz 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
		of 60Hz coil powered at 60Hz pick-up	
	min	%Us	80
	max	%Us	110
		drop-out	
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
		of 60Hz coil powered at 60Hz	
		in-rush	VA
		holding	VA
			210
			15
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for U _s 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
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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
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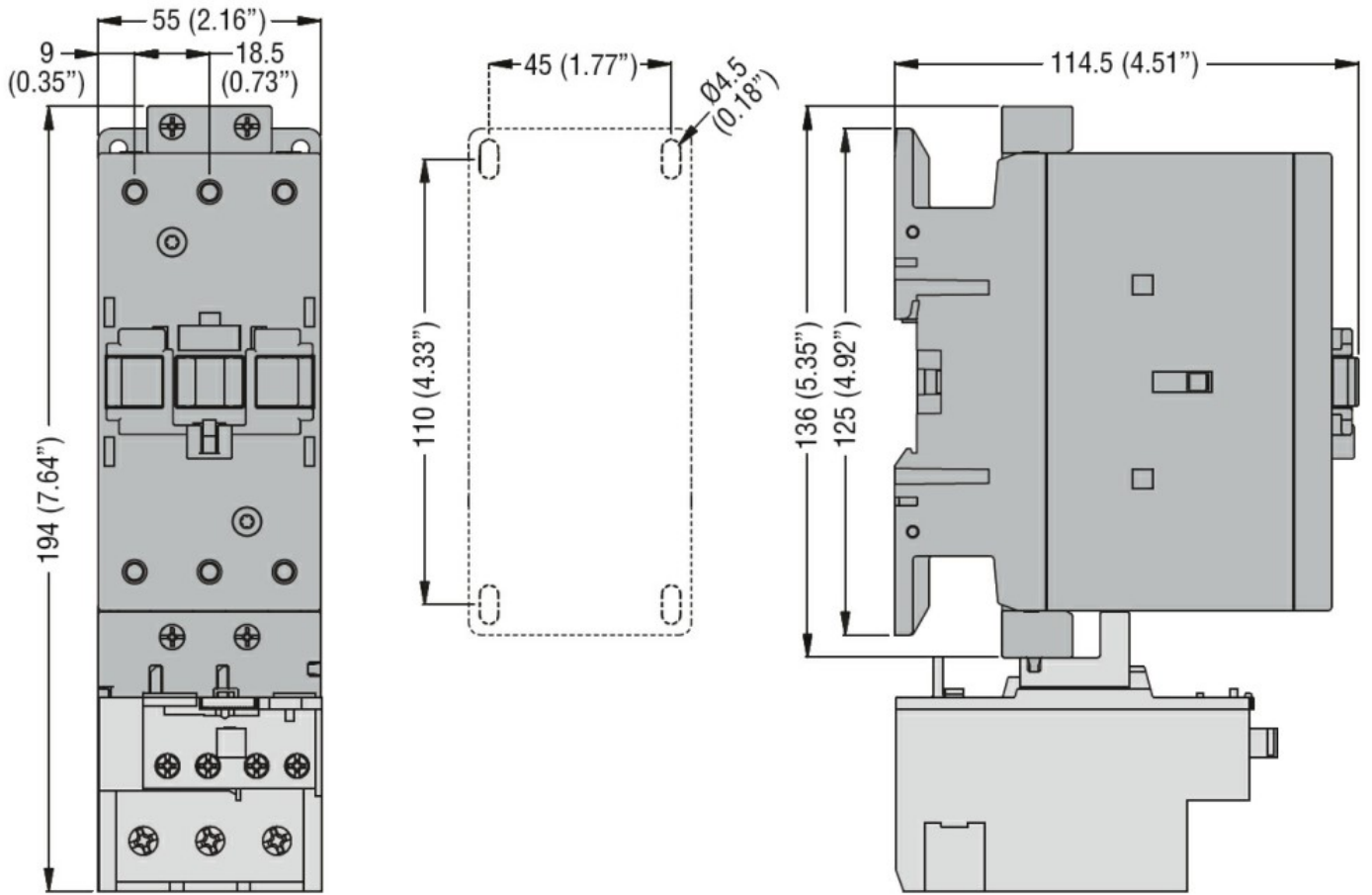
Short-circuit protection fuse, 600V	High fault	Short circuit current	kA	100
		Fuse rating	A	200
		Fuse class		J
	Standard fault	Short circuit current	kA	10
		Fuse rating	A	200
		Fuse class		RK5

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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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

EAC

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching