



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 80
	AC-4 (400V)	A 38
Rated operational power AC-3 (T≤55°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≤55°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≤40°C)	230V	kW 43
	400V	kW 76
	500V	kW 95
	690V	kW 120
IEC max current I _e in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A 70
	48V	A 60
	75V	A 60
	110V	A 8
	220V	A –
IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A 100
	48V	A 100
	75V	A 100

	110V	A	80
	220V	A	9
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IEC max current I _e 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 _e 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 _e 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 _e 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 _e 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 _e 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 _{th}	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 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
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Mechanical features				
Operating position				
			normal allowable	Vertical plan ±30°
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Fixing				
				Screw / DIN rail 35mm
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Weight				
			g	1060
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Operations				
Mechanical life				
			cycles	15000000
Electrical life				
			cycles	1300000
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Safety related data				
Performance level B10d according to EN/ISO 13489-1				
			rated load mechanical load	cycles 1300000
				cycles 15000000
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EMC compatibility				
				yes
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AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
		min	V	20
		max	V	48
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AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out	max	%Us	≤70 Us min
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	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out	max	%Us	≤70 Us min
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AC average coil consumption at 20°C				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	35...120

	holding	VA	1.5...3.7
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	35...120
	holding	VA	1.5...3.7
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	1...2.5
DC coil operating			
DC rated control voltage			
	min	V	20
	max	V	48
max		V	48
DC operating voltage			
	pick-up		
	min	%Us	80 Us min
	max	%Us	110 Us max
	drop-out		
	max	%Us	≤ 70 Us min
Average coil consumption $\leq 20^{\circ}\text{C}$			
	in-rush	W	23...68
	holding	W	1.2...1,9
Max cycles frequency			
Mechanical operation		cycles/h	1500
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	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
Max altitude		m	3000

Ambient conditions

Temperature

Operating temperature

min	°C	-40
max	°C	70

Storage temperature

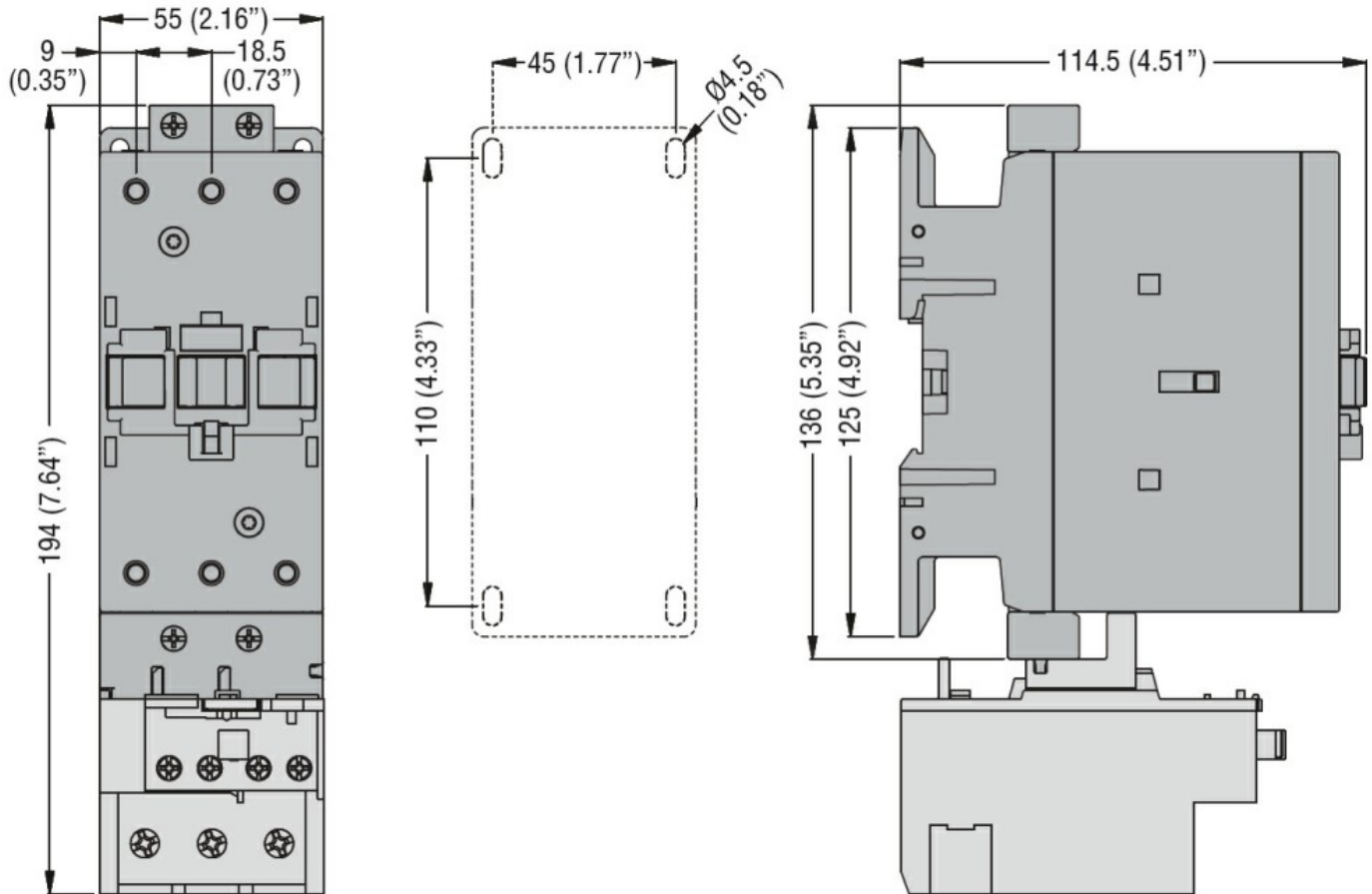
min	°C	-50
max	°C	80

Resistance & Protection

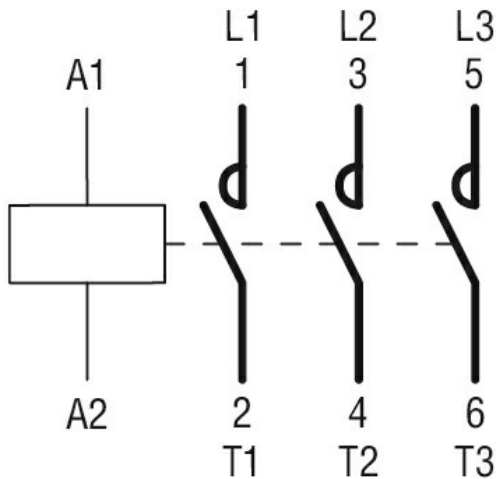
Pollution degree

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