



Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U _i IEC/EN	V	690
Rated impulse withstand voltage U _{imp}	kV	6
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I _{th} ≤ 40°C	A	56
Operational current I _e		
	AC-1 (≤40°C)	A 56
	AC-1 (≤40°C) with 16mm ² wire and fork end lug	A 60
	AC-1 (≤55°C)	A 45
	AC-1 (≤55°C) with 16mm ² wire and fork end lug	A 48
	AC-1 (≤70°C)	A 40
	AC-1 (≤70°C) with 16mm ² wire and fork end lug	A 42
	AC-3 (≤440V ≤55°C)	A 38
	AC-4 (400V)	A 15.5
Rated operational power AC-1 (T≤40°C)		
	230V	kW 21
	400V	kW 36
	500V	kW 45
	690V	kW 62
Short-time allowable current for 10s (IEC/EN60947-1)	A	320
Protection fuse		
	gG (IEC)	A 63
	aM (IEC)	A 40
Making capacity (RMS value)	A	380
Breaking capacity at voltage		
	440V	A 304
	500V	A 240
	690V	A 192
Resistance per pole (average value)	mΩ	2
Power dissipation per pole (average value)		
	I _{th}	W 6
	AC-3	W 2.9
Tightening torque for terminals		
	min	Nm 2.5
	max	Nm 3
	min	lbin 1.8
	max	lbin 2.2
Tightening torque for coil terminal		
	min	Nm 0.8
	max	Nm 1
	min	lbin 0.8
	max	lbin 0.74

Max number of wires simultaneously connectable			Nr.	2
Conductor section				
AWG/Kcmil		max		6
Flexible w/o lug conductor section		min	mm ²	2.5
		max	mm ²	16
Flexible c/w lug conductor section		min	mm ²	1
		max	mm ²	10
Flexible with insulated spade lug conductor section		min	mm ²	1
		max	mm ²	16
Power terminal protection according to IEC/EN 60529				IP20 when properly wired
Cable stripping lenght				
main circuit			mm	10
command circuit			mm	8
Mechanical features				
Operating position				normal allowable Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight				g 660
Operations				
Mechanical life				cycles 20000000
Electrical life				cycles 1400000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
rated load			cycles	1400000
mechanical load			cycles	20000000
EMC compatibility				yes
DC coil operating				
DC rated control voltage				V 60
DC operating voltage				
pick-up		min	%Us	80
		max	%Us	125
drop-out		min	%Us	10
		max	%Us	40
Average coil consumption ≤20°C				
in-rush			W	5.4
holding			W	5.4
Max cycles frequency				
Mechanical operation				cycles/h 3600
Operating times				
Average time for Us control				
in AC		Closing NO		
		min	ms	8
		max	ms	24

in DC	Opening NO	min	ms	5
		max	ms	15
	Closing NC	min	ms	9
		max	ms	20
	Opening NC	min	ms	9
		max	ms	17
	Closing NO	min	ms	54
		max	ms	66
	Opening NO	min	ms	14
		max	ms	17
	Closing NC	min	ms	23
		max	ms	28
	Opening NC	min	ms	46
		max	ms	56

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 55
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Ambient conditions

Temperature

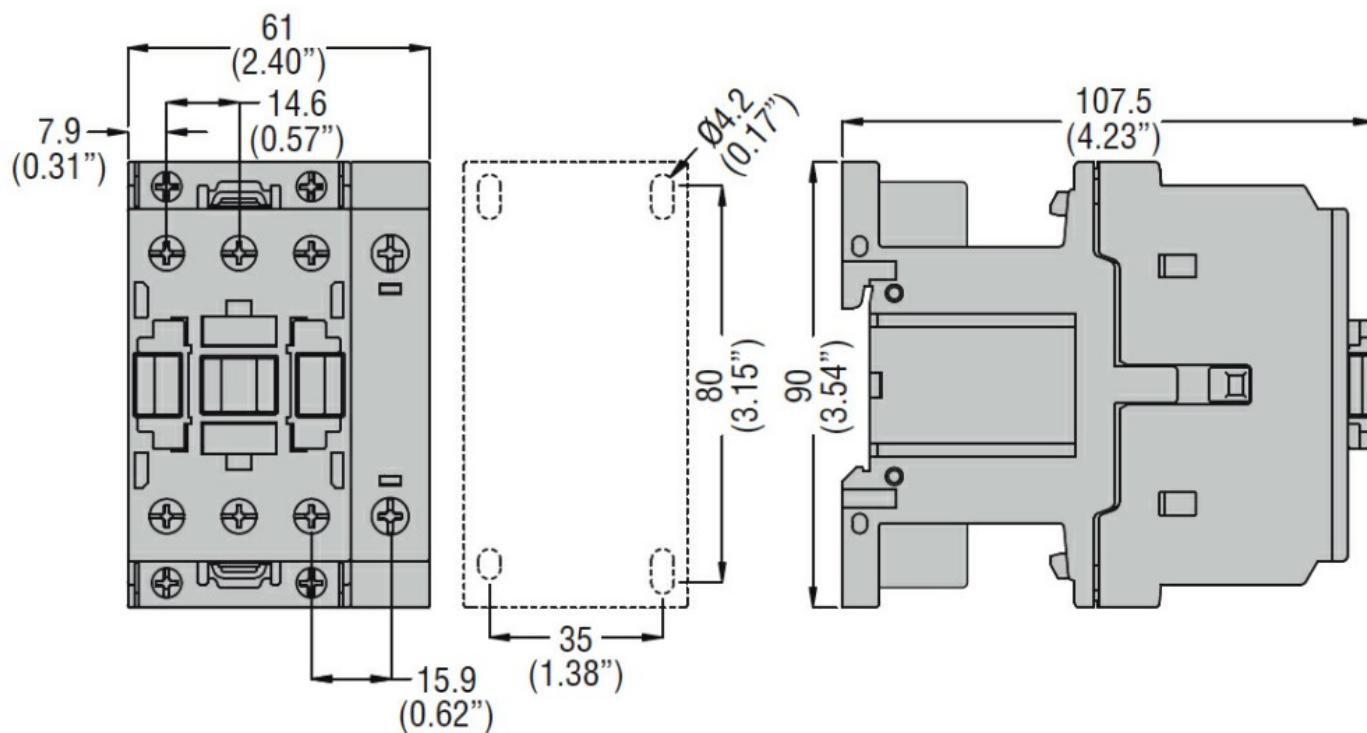
Operating temperature		min	°C -50
		max	°C 70
Storage temperature			
		min	°C -60
		max	°C 80

Max altitude	m	3000
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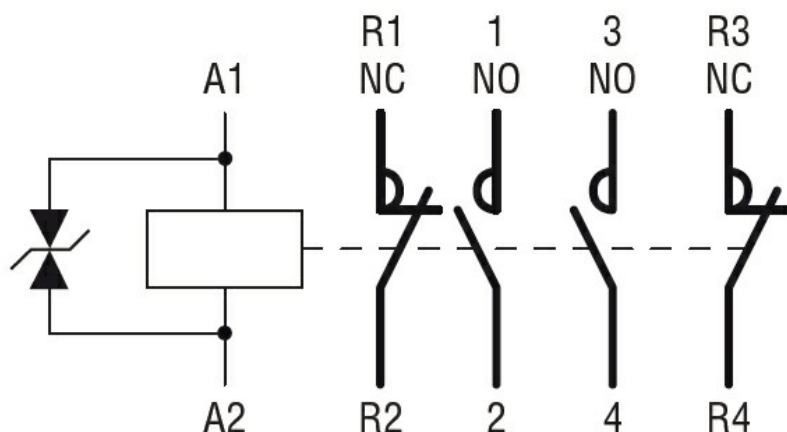
Resistance & Protection

Pollution degree	3
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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