



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 $I_{th} \leq 40^{\circ}\text{C}$	A	56	
Operational current I_e	AC-1 ($\leq 40^{\circ}\text{C}$)	A	56
	AC-1 ($\leq 40^{\circ}\text{C}$) with 16mm ² wire and fork end lug	A	60
	AC-1 ($\leq 55^{\circ}\text{C}$)	A	45
	AC-1 ($\leq 55^{\circ}\text{C}$) with 16mm ² wire and fork end lug	A	48
	AC-1 ($\leq 70^{\circ}\text{C}$)	A	40
	AC-1 ($\leq 70^{\circ}\text{C}$) with 16mm ² wire and fork end lug	A	42
	AC-3 ($\leq 440\text{V} \leq 55^{\circ}\text{C}$)	A	38
	AC-4 (400V)	A	15.5
Rated operational power AC-1 ($T \leq 40^{\circ}\text{C}$)	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	510	
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	
AC coil operating						
Rated AC voltage at 50/60Hz				V	110	
AC operating voltage						
of 50/60Hz coil powered at 50Hz pick-up		min	%Us	80		
		max	%Us	110		
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		
AC average coil consumption at 20°C						
of 50/60Hz coil powered at 50Hz		in-rush	VA	75		
		holding	VA	9		

of 50/60Hz coil powered at 60Hz

in-rush	VA	70
holding	VA	6.5

of 60Hz coil powered at 60Hz

in-rush	VA	75
holding	VA	9

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz	W	2.5
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Max cycles frequency

Mechanical operation	cycles/h	3600
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Operating times

Average time for Us control

in AC

Closing NO

min	ms	8
max	ms	24

Opening NO

min	ms	5
max	ms	15

Closing NC

min	ms	11
max	ms	29

Opening NC

min	ms	6
max	ms	14

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	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	$^{\circ}\text{C}$	-50
max	$^{\circ}\text{C}$	70

Storage temperature

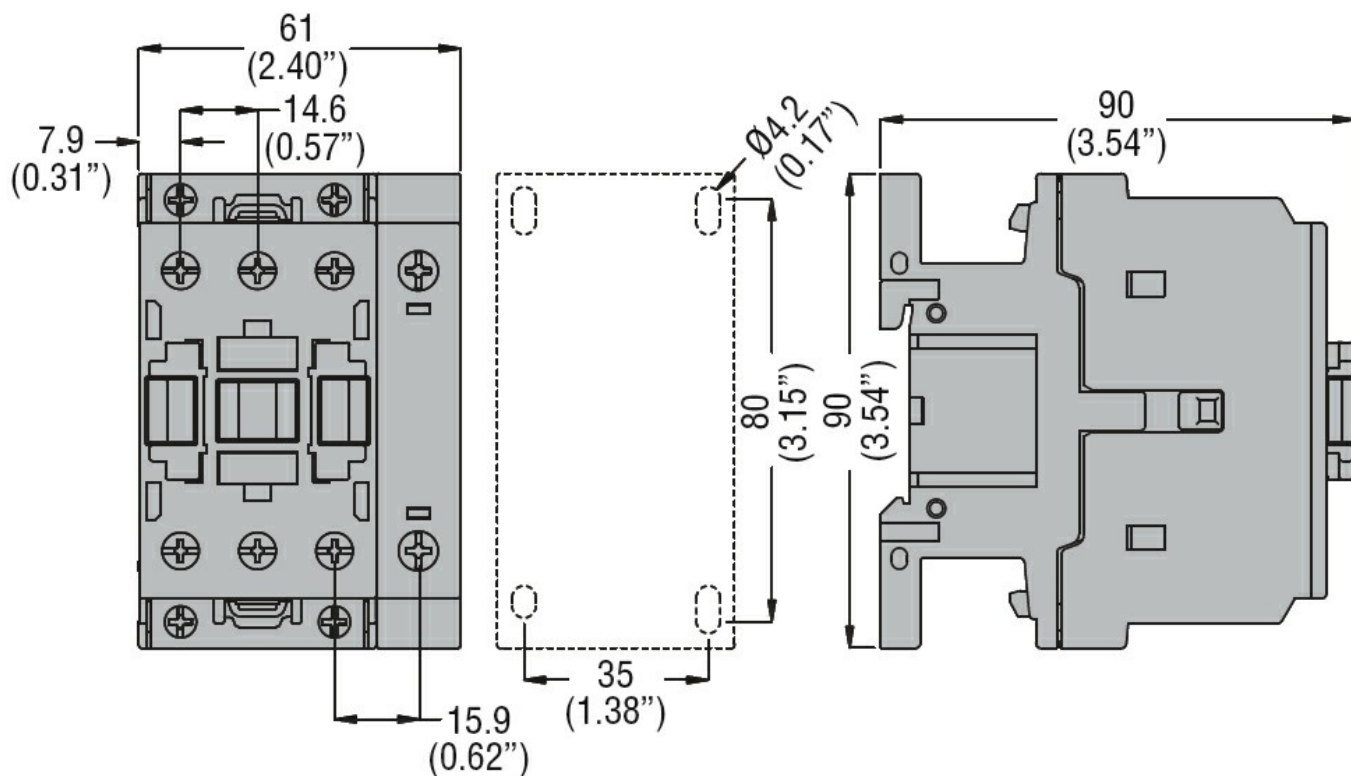
min	$^{\circ}\text{C}$	-60
max	$^{\circ}\text{C}$	80

Max altitude	m	3000
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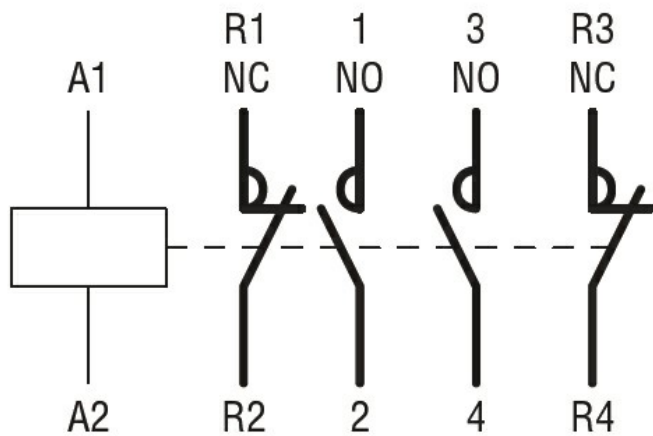
Resistance & Protection

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