



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	514		
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	48		
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
---	---	-----

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

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
-----------------------------------	---	-----

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
------------	---	----

Ambient conditions

Temperature

Operating temperature

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

Storage temperature

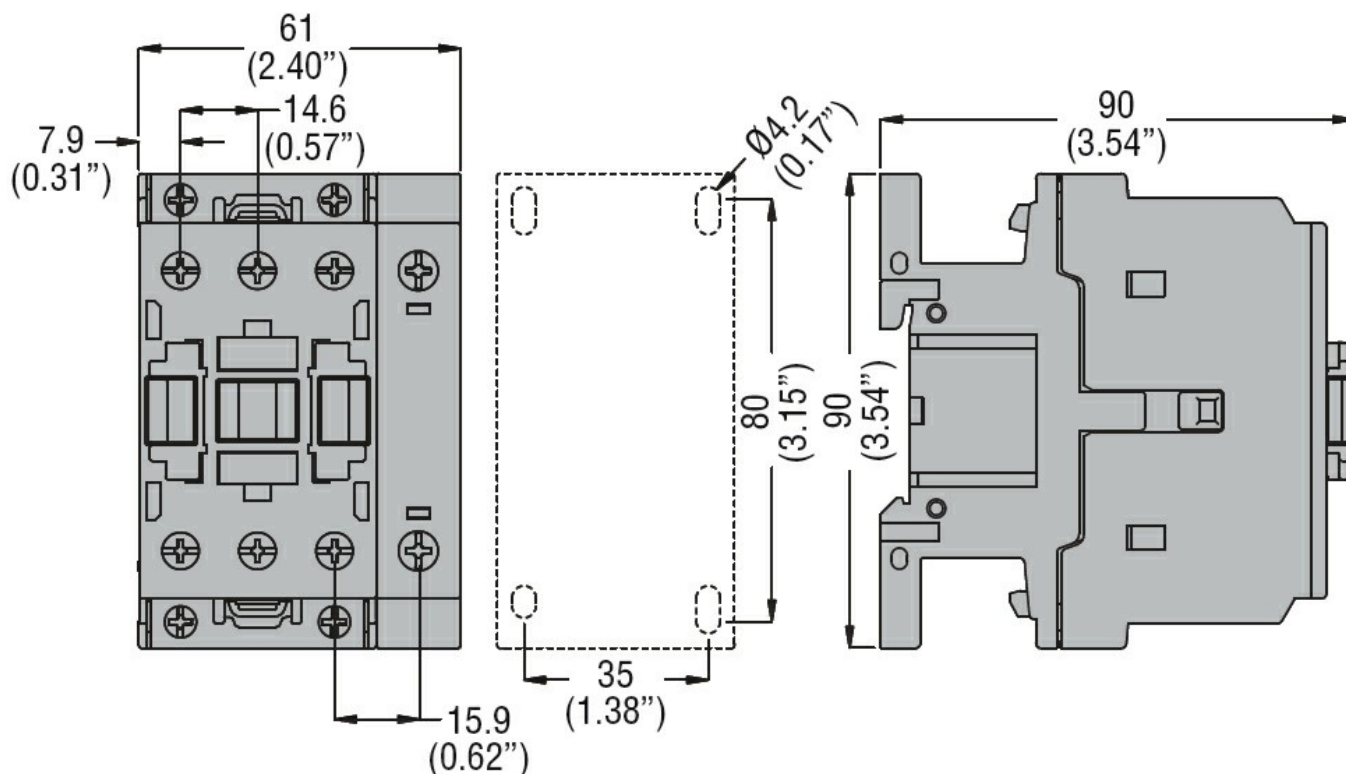
min	$^{\circ}\text{C}$	-60
max	$^{\circ}\text{C}$	80

Max altitude	m	3000
--------------	---	------

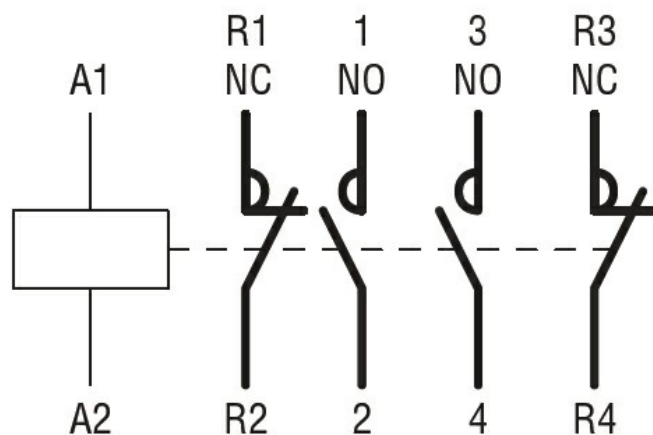
Resistance & Protection

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
EAC
UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching