



Product designation

Power contactor

Product type designation

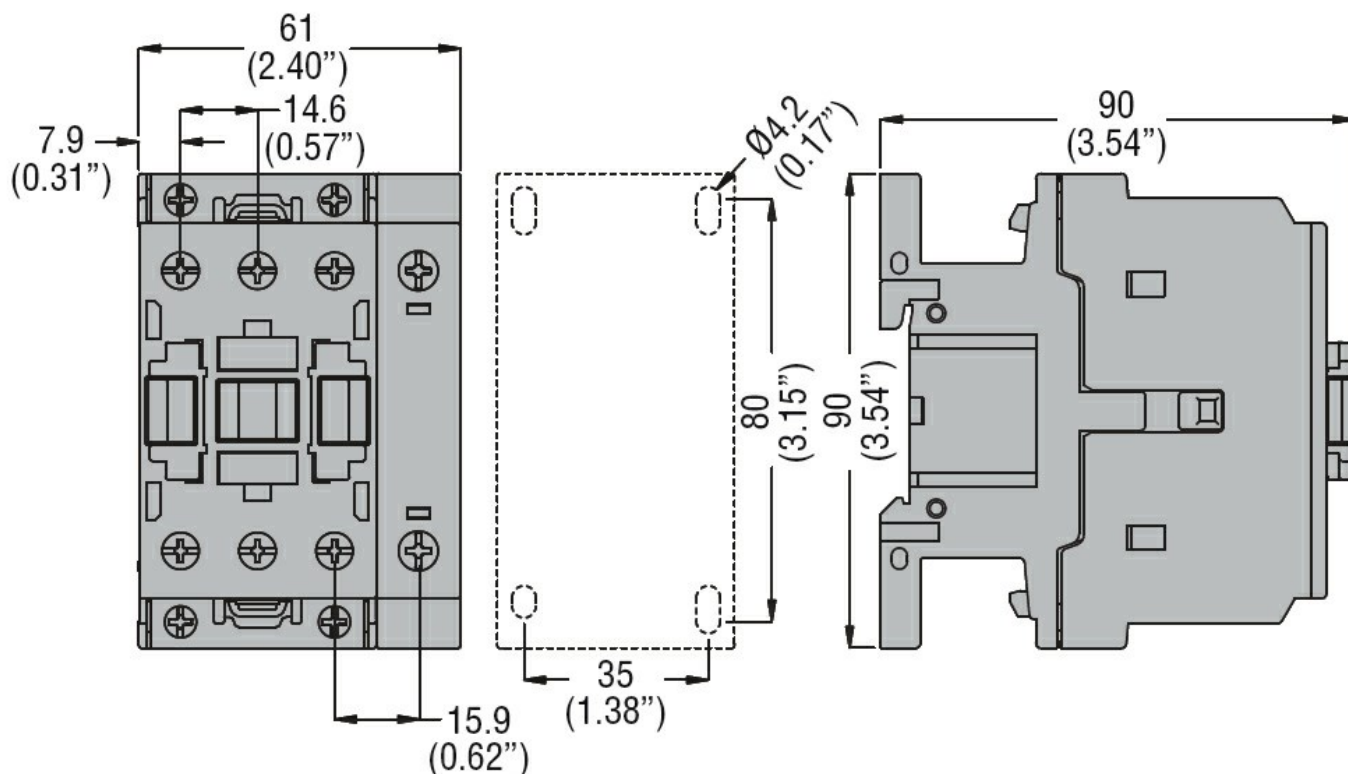
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Contact characteristics

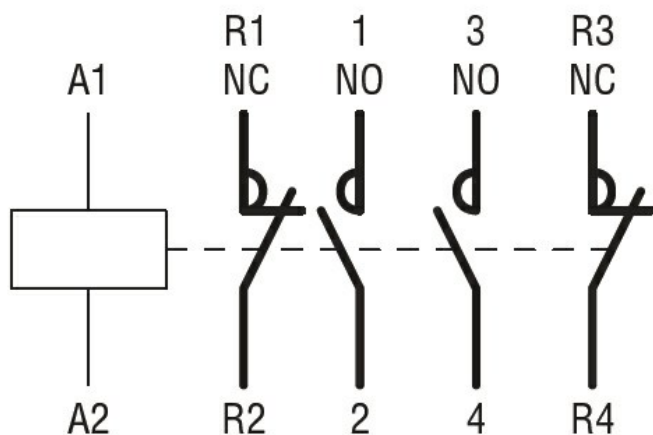
Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current I_{th}	A	56
Operational current I_e		
	AC-1 ($\leq 40^\circ\text{C}$)	A 56
	AC-1 ($\leq 40^\circ\text{C}$) 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	I _{bin}	0.8
	max	I _{bin}	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	10
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
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	%U _s	80
	max	%U _s	110
drop-out	min	%U _s	20
	max	%U _s	55
of 50/60Hz coil powered at 60Hz			
pick-up	min	%U _s	85
	max	%U _s	110
drop-out	min	%U _s	20
	max	%U _s	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 ≤20°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
	220/230V	HP		15
	460/480V	HP		30
	575/600V	HP		30
General USE				
Contactor				
	AC current	A		55
Ambient conditions				
Temperature				
Operating temperature				
	min	°C		-50
	max	°C		70
Storage temperature				
	min	°C		-60
	max	°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/BS 60947-1
IEC/EN/BS 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CCC
cULus
EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching