



Product designation

Power contactor

Product type designation

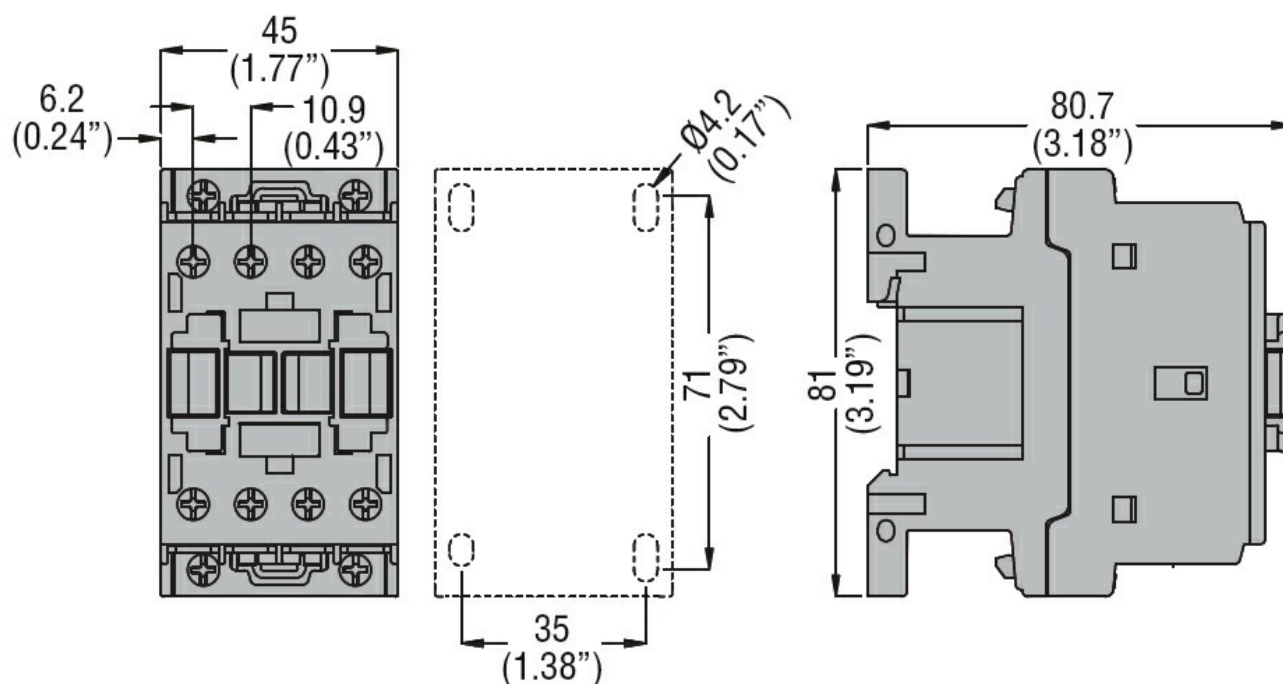
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Contact characteristics

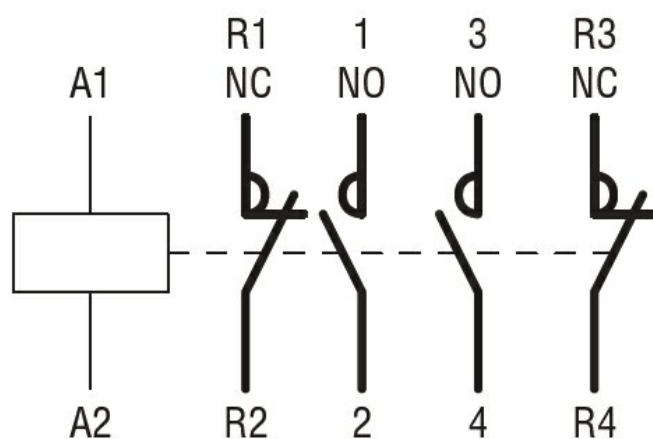
Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I_{th}	A	32
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 32
	AC-1 ($\leq 55^\circ\text{C}$)	A 26
	AC-1 ($\leq 70^\circ\text{C}$)	A 23
	AC-3 ($\leq 440\text{V } \leq 55^\circ\text{C}$)	A 18
	AC-4 (400V)	A 8.5
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW 12
	400V	kW 21
	500V	kW 26
	690V	kW 36
Short-time allowable current for 10s (IEC/EN60947-1)	A	200
Protection fuse	gG (IEC)	A 32
	aM (IEC)	A 20
Making capacity (RMS value)	A	180
Breaking capacity at voltage	440V	A 144
	500V	A 120
	690V	A 94
Resistance per pole (average value)	m Ω	2.5
Power dissipation per pole (average value)	I_{th}	W 2.6
	AC-3	W 0.8
Tightening torque for terminals	min	Nm 1.5
	max	Nm 1.8
	min	lbin 1.1
	max	lbin 1.5
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	10
Flexible w/o lug conductor section			
		min	mm ² 1
		max	mm ² 6
Flexible c/w lug conductor section			
		min	mm ² 1
		max	mm ² 4
Flexible with insulated spade lug conductor section			
		min	mm ² 1
		max	mm ² 4
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	360
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
		rated load	cycles 1600000
		mechanical load	cycles 20000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	230
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 holding	VA VA	75 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 U_s control in AC				
	Closing NO	min max	ms ms	8 24
	Opening NO	min max	ms ms	10 20
	Closing NC	min max	ms ms	14 28
	Opening NC	min max	ms ms	7 18
UL technical data				
Rated operational voltage AC (UL)			V	600
Full-load current (FLA) for three-phase AC motor		at 480V at 600V	A A	14 17
Yielded mechanical performance				
	for single-phase AC motor	110/120V 230V	HP HP	1 3
	for three-phase AC motor	200/208V 220/230V 460/480V 575/600V	HP HP HP HP	5 5 10 15
General USE				
	Contactor	AC current	A	32
Ambient conditions				
Temperature				
	Operating temperature	min max	$^{\circ}\text{C}$ $^{\circ}\text{C}$	-50 70
	Storage temperature	min max	$^{\circ}\text{C}$ $^{\circ}\text{C}$	-60 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