

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 24VAC/DC



Product designation		Power contactor
Product type designation		B310
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency		
Operational frequency m		25
Operational frequency ma		400
Conventional free air thermal current Ith	A	450
Operating current		
Operational current AC1 (≤40°C	•	450
Operational current AC3 (≤440V ≤55°C	•	320
Operational current AC4 (400\	<u>()</u> A	110
Rated operational power AC1 (T≤40°C)		
230		158
400		270
500		350
690	V kW	488
Rated operational power AC3 (T≤55°C)		
230		100
400		170
415		188
440		200
500		213
690		256
1000		180
Short-time allowable current for 10s (IEC/EN60947-1)	Α	2900
Protection fuse		
gG (IEC	•	500
aM (IEC	,	400
Making capacity (RMS value)	Α	3150
Breaking capacity at voltage		
Breaking capacity 440		3000
Breaking capacity 500		2700
Breaking capacity 690		2520
Resistance per pole (average value)	mΩ	0.2
Power dissipation per pole (average value)		
Power dissipation pole (average value) li		40.5
AC	3 W	20
Tightening torque for terminals		
m		35
ma		35
m		25.8
ma	x lbft	25.8



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	imultaneously connectable		nr.	2
Conductor section	A1A/O			
	AWG			0 0/0
		max		2x 3/0
	tion according to IEC/EN 60529			IP00
Auxiliary contact chara				
Operational current AC			Α	450
Operating current DC1	3			_
		110V	Α	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw
Weight			g	9.69
Operations				
Mechanical life			Cycles	10000000
Electrical life			Cycles	700000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	Cicli	700000
		mechanical load	Cicli	10000000
Mirror contats according				
EMC compatibility	19 10 IEC/EN 609474-4-1			yes
	ig to IEC/EN 609474-4-1			yes
	ig to IEC/EIN 609474-4-1			yes
AC coil operating	ig to IEC/EIN 609474-4-1			
AC coil operating				
AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz			
AC coil operating		min	%Us	yes
AC coil operating	of 50/60Hz coil powered at 50Hz	min max	%Us %Us	yes 0.8
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	min max	%Us %Us	yes
AC coil operating	of 50/60Hz coil powered at 50Hz	max	%Us	0.8 1.1
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us	0.8 1.1 0.2
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us	0.8 1.1
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	0.8 1.1 0.2
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	0.8 1.1 0.2 0.6
AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	0.8 1.1 0.2 0.6

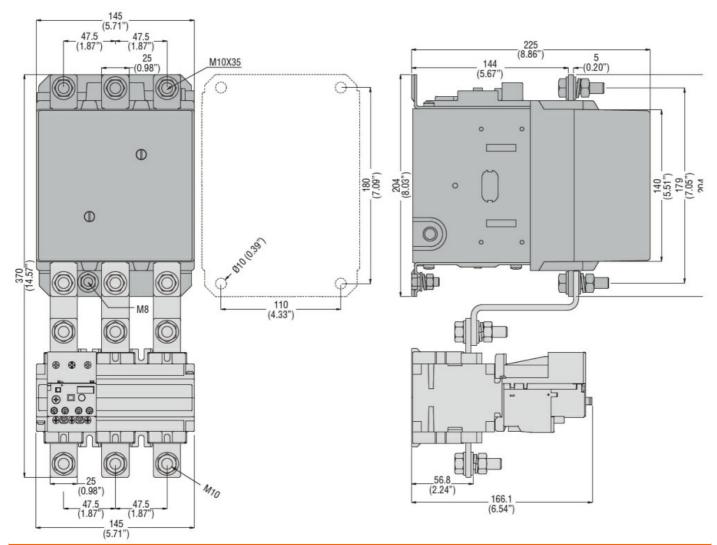


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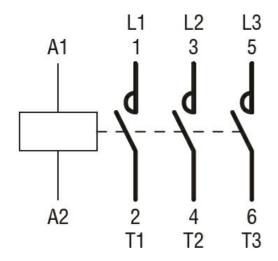
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	je				
DO			min	V	24
DC operating voltage	pick-up				
	ріск-ир		min	%Us	0.8
			max	%Us	1.10
	drop-out				
	·		min	%Us	0.2
			max	%Us	0.60
Average coil consuption	n ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency				Cycles/b	2400
Mechanical operations Operating times				Cycles/h	1 2400
Average time for Us co	ontrol				
7 Wordgo anno for Go oc	in AC				
	-	Closing NO			
		Ŭ	min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
			max	ms	75
	in DC	01 1 110			
		Closing NO			0.0
			min	ms	80
		Opening NO	max	ms	120
		Opening NO	min	ms	30
			max	ms	75
UL technical data			THE STATE OF THE S		. 0
Full-load current (FLA)	for three-phase	AC motor			
			at 480V	Α	301
			at 600V	Α	289
Yielded mechanical pe					
	for three-phase	AC motor			
			at 200/208V	hp	100
			at 220/230V	hp	125
			at 460/480V	hp	250
General USE			at 575/600V	hp	300
Jeneral USL	Contactor				
	Jonadol		AC current	Α	450
Other features			, to ouriont		
Pollution degree					3
Dimensions					

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Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1



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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL,

	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
	EAC	

ETIM 6 classification

EC000066 - Power contactor, AC switching