ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 380... 415VAC/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 min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	450
Operating current			
	Operational current AC1 (≤40°C)	Α	450
	Operational current AC3 (≤440V ≤55°C)	Α	320
	Operational current AC4 (400V)	Α	110
Rated operational power AC1 (T≤40°C)			
	230V	kW	158
	400V	kW	270
	500V	kW	350
	690V	kW	488
Rated operational power AC3 (T≤55°C)			
	230V	kW	100
	400V	kW	170
	415V	kW	188
	440V	kW	200
	500V	kW	213
	690V	kW	256
	1000V	kW	180
Short-time allowable current for 10s (IEC/EN60	947-1)	Α	2900
Protection fuse			
	gG (IEC)	Α	500
	aM (IEC)	Α	400
Making capacity (RMS value)		Α	3150
Breaking capacity at voltage			
	Breaking capacity 440V	Α	3000
	Breaking capacity 500V	Α	2700
	Breaking capacity 690V	Α	2520
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	40.5
	AC3	W	20
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbft	25.8
	max	lbft	25.8



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	San Harris and Carlotte			
	imultaneously connectable		nr.	2
Conductor section	ANNO			
	AWG	200 04		2x 3/0
Dower terminal protect	tion appording to IEC/EN 60530	max		IP00
Auxiliary contact chara	tion according to IEC/EN 60529			IPUU
Operational current AC			А	450
Operating current DC1				430
Operating current DC1	3	110V	Α	Screw
Ambient conditions		1100		Screw
Temperature				
Tomporatoro	Operating temperature			
	oporating 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	9.53
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
ENAC	ng to IEC/EN 609474-4-1			yes
EMC compatibility	ng to IEC/EN 609474-4-1			
AC coil operating	ng to IEC/EN 609474-4-1			yes
				yes
AC coil operating	of 50/60Hz coil powered at 50Hz			yes
AC coil operating				yes yes
AC coil operating	of 50/60Hz coil powered at 50Hz	min	%Us	yes yes 0.8
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	min max		yes yes
AC coil operating	of 50/60Hz coil powered at 50Hz	max	%Us %Us	yes yes 0.8 1.1
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	yes yes 0.8 1.1
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	yes yes 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 %Us	yes yes 0.8 1.1
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	yes yes 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 %Us	yes yes 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 %Us	yes yes 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	yes yes 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	yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2
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	yes yes 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	yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2
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	yes yes 0.8 1.1 0.2 0.6 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 in-rush	%Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2
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 max	%Us %Us %Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6 300

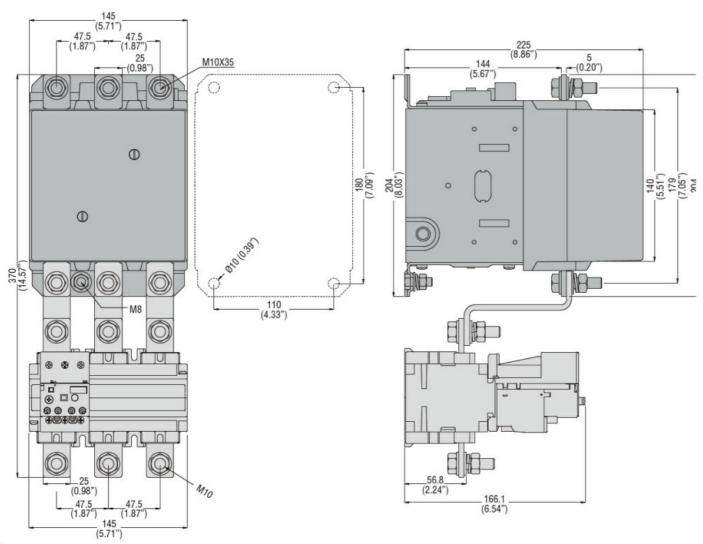
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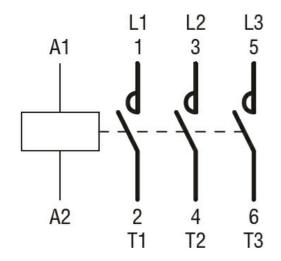
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	je				
DO			min	V	24
DC operating voltage	pick-up				
	ріск-ир		min	%Us	0.8
			max	%Us	1.10
	drop-out				
	•		min	%Us	0.2
			max	%Us	0.60
Average coil consuption	n ≤20°C				
			in-rush	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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415VAC/DC

UL 60947-4-1		
CCC		
cULus		

ETIM 6 classification

Compliance

EC000066 - Power contactor, AC switching

EAC