11B310400220



electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 220... 240VAC/DC



Product designation			Power contactor
Product type designation			B310
Contact characteristics			
Number of poles		nr.	4
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)	А	450
	Operational current AC3 (≤440V ≤55°C)	А	320
	Operational current AC4 (400V)	A	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 A	180
Short-time allowable current for 10s (IEC/EN60947-1)			2900
Protection fuse			
	gG (IEC)	A	500
	aM (IEC)	A	400
Making capacity (RMS value)		A	3150
Breaking capacity at voltage			
	Breaking capacity 440V	Α	3000
	Breaking capacity 500V	A	2700
	Breaking capacity 690V	A	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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240VAC/DC

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nax number of wires s	simultaneously connectable		nr.	2
conductor section	· · · · · ·			
	AWG			
		max		2x 3/0
	tion according to IEC/EN 60529			IP00
uxiliary contact chara				
Operational current AC			А	450
Operating current DC1	13			
		110V	А	Screw
mbient conditions				
emperature				
	Operating temperature		°.	
		min	°C °C	-50
	Storogo tomporativa	max	°C	70
	Storage temperature		°C	60
		min	°C ℃	-60 80
/lax altitude		max		3000
Derating position			m	3000
sperating position		normal		Vertical plan
		allowable		Vertical plan ±30°
Nounting		allowable		Screw
Veight			g	11.14
Operations			Э	
lechanical life				10000000
			CVCIES	
			Cycles Cycles	
Electrical life			Cycles	700000
Electrical life Safety related data	0d according to EN/ISO 13489-1		-	
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	-	
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load mechanical load	Cycles	700000
Electrical life Safety related data Performance level B10	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1		Cycles	700000 700000
Electrical life Safety related data Performance level B10 Airror contats accordin			Cycles	700000 700000 10000000
Electrical life Bafety related data Performance level B10 Airror contats accordin EMC compatibility			Cycles	700000 700000 10000000 yes
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating			Cycles	700000 700000 10000000 yes
Electrical life Safety related data Performance level B10 Airror contats accordin EMC compatibility AC coil operating			Cycles	700000 700000 10000000 yes
Electrical life Safety related data Performance level B10 Airror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1		Cycles	700000 700000 10000000 yes
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz		Cycles	700000 700000 10000000 yes
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli	700000 700000 10000000 yes yes
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli %Us %Us	700000 700000 10000000 yes yes 0.8 1.1
Electrical life Safety related data Performance level B10 Airror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B10	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	Cycles Cicli Cicli %Us %Us	700000 700000 10000000 yes yes 0.8 1.1
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min	Cycles Cicli Cicli %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordin MC compatibility IC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordin MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Airror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Electrical life Safety related data Performance level B10 Airror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating C operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Airror contats accordin MC compatibility C coil operating C operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding 11B310400220

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ENERGY AND AUTOMATION

240VAC/DC

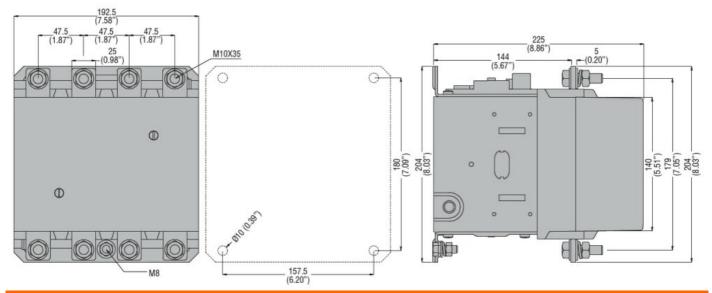
		in-rush	VA	300
		holding	VA	10
Dissipation at holding :	≤20°C 50Hz		W	10
DC coil operating				-
DC rated control voltage	10			
	je		V	0.4
<u> </u>		min	V	24
DC operating voltage				
	pick-up			
		min	%Us	0.8
		max	%Us	1.10
	drop-out			
		min	%Us	0.2
		max	%Us	0.60
Average coil consuptio	n <20°C	max	/000	0.00
Average con consuplic	1 320 6	in week	14/	200
		in-rush	W	300
		holding	W	10
Max cycles frequency				
Mechanical operations			Cycles/h	2400
Operating times				
Average time for Us co	ontrol			
C C	in AC			
	Closing NO			
		min	ms	80
		max	ms	120
	Opening NO			
		min	ms	30
		max	ms	75
	in DC			
	Closing NO			
		min	ms	80
		max	ms	120
	Opening NO			
	oponing ite	min	ms	30
			ms	75
LIL technical data		max	1115	75
UL technical data	for three shares AQ such			
Full-load current (FLA)	for three-phase AC motor			
		at 480V	A	301
		at 600V	А	289
Yielded mechanical pe	rformance			
	for three-phase AC motor			
		at 200/208V	hp	100
		at 220/230V	hp	125
		at 460/480V	hp	250
		at 575/600V	hp	300
		at 575/000V	пр	500
General USE				
	Contactor			
		AC current	А	450
Other features				
Pollution degree				3
Dimensions				



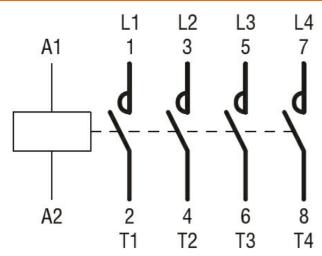
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ENERGY AND AUTOMATION

240VAC/DC



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
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classification	

EC000066 - Power contactor, AC switching