



Product designation			Power contactor B310
Product type designation Contact characteristics			D310
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	450
Operational current le			
	AC-1 (≤40°C)	А	450
	AC-1 (≤55°C)	А	370
	AC-1 (≤70°C)	А	300
	AC-3 (≤440V ≤55°C)	А	320
	AC-4 (400V)	А	150
Rated operational power AC-3 (T≤55°C)			
	230V	kW	100
	400V	kW	170
	415V	kW	188
	440V	kW	200
	500V	kW	213
	690V	kW	256
	1000V	kW	180
Rated operational power AC-1 (T≤40°C)			
	230V	kW	158
	400V	kW	270
	500V	kW	350
	690V	kW	488
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	А	375
	110V	A	195
	220V	А	
	330V	А	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	A	375
	110V	A	350
	220V	A	300
	330V	A	
IEC may aurrent to in DC1 with 1/D < 1ms with 2 males in series	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		۸	275
	75V 110V	A	375
	110V	A	350 350
	220V	A	350

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 380...415VAC/DC

11B31000380

	330V	А	300
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	375
	110V	А	350
	220V	А	350
	330V	А	350
	460V	А	300
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	75V	А	310
	110V	А	170
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	310
	110V	A	290
	220V	A	230
	330V	A	
	460V	A	
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	4007		
	75V	А	310
	110V	A	310
	220V	A	290
	330V	A	230
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	4007		
	75V	А	310
	110V	A	310
	220V	A	310
	330V	A	230
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A	2900
Protection fuse		Λ	2300
	gG (IEC)	А	500
	aM (IEC)	A	400
Making capacity (RMS value)		A	3150
Breaking capacity at voltage		A	3150
Dreaking capacity at voltage	440V	۸	3000
	440V 500V	A A	2700
	690V		2520
Desistance per pole (overege velue)	090 V	A	
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)	14		10 F
	lth	W	40.5
	AC-3	W	20
Tightening torque for terminals			. -
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1

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		min	lbin Ibin	0.74
Max number of wires	simultaneously connectable	max	lbin Nr.	0.74
Conductor section			111.	۷.
	AWG/Kcmil			
		max		2x 3/0
Power terminal prote	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	9530
Conductor section				
	AWG/kcmil conductor section			
		max		2x 3/0
Operations			·	
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data	10d appording to EN/ISO 12480 1			
r enormance level B	10d according to EN/ISO 13489-1	rated load	ovelee	700000
			cycles	1000000
		machanical load		
Mirror contats accord	ling to IEC/EN 609474-4-1	mechanical load	cycles	
	ling to IEC/EN 609474-4-1	mechanical load	cycles	yes
EMC compatibility	ling to IEC/EN 609474-4-1	mechanical load	Cycles	
EMC compatibility AC coil operating		mechanical load	cycles	yes
EMC compatibility		mechanical load	V	yes yes
EMC compatibility AC coil operating				yes
EMC compatibility AC coil operating	50/60Hz, 60Hz	min	V	yes yes 380
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz	min	V	yes yes 380
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz	min	V	yes yes 380
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min	V	yes yes 380
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min max	V V	yes yes 380 415
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min max min max	V V %Us %Us	yes yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min max min max min	V V %Us %Us %Us	yes yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	V V %Us %Us	yes yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min	V V %Us %Us %Us	yes yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max min max	V V %Us %Us %Us %Us	yes yes 380 415 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max min	V V %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	V V %Us %Us %Us %Us	yes yes 380 415 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max min max	V V VUs %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	V V VUs %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max	V V VUs %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	V V VUs %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min max min max	V V VUs %Us %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110 20 60 80 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max min max	V V VUs %Us %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes yes 380 415 80 110 20 60 80 110 20 60 80 80

of 50/60Hz coil powered at 50Hz

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11B31000380 380...415VAC/DC

			in-rush	VA	300
		warad at 60! !-	holding	VA	10
	of 50/60Hz coil pov	wered at 60Hz	in-rush	VA	300
			holding	VA VA	300 10
Dissipation at holding ≤	<20°C 50Hz		noiding	W	10
DC coil operating	-20 0 00112			vv	10
DC rated control voltag	ie				
)-		min	V	380
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
• ··			max	%Us	60
Average coil consumpt	tion ≤20°C		. .		000
			in-rush	W	300
Max cycles frequency			holding	W	10
Max cycles frequency Mechanical operation				cycles/h	2400
Operating times				cycles/fi	2400
Average time for Us co	ontrol				
tronago anto for de de	in AC				
		Closing NO			
		0	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	min	ms	30
			max	ms	75
JL technical data					. •
Full-load current (FLA)	for three-phase AC	motor			
· · · ·			at 480V	А	301
			at 600V	А	289
Yielded mechanical pe	rformance				
	for three-phase AC	C motor			
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
0			575/600V	HP	300
General USE	Operate				
	Contactor			۸	450
Chart aireuit masta st'	fuee 6001/		AC current	A	450
Short-circuit protection					
	Standard fault		Short circuit current	ĿΛ	10
			Short circuit current	kA	18

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 11B31000380



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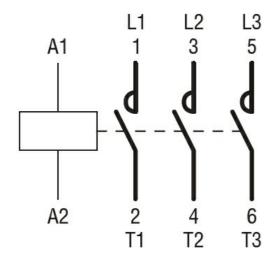
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800 Fuse rating А Fuse class L Ambient conditions Temperature Operating temperature min °C -50 °C 70 max Storage temperature °C -60 min °C max 80 Max altitude 3000 m Resistance & Protection Pollution degree 3 Dimensions 145 (5.71" 47.5 47.5 225 (8.86") 25 -(0.98'') 5 -(0.20") M10X35 144 O (\mathbf{a}) 0 0 180 (7.09") 204 (8.03") 140 5.51") 179 (7.05") 20.4 0 010 00001000 370 AMA -110 (4.33") M8 τυ •5 • 0 1_25 (0.98") MIO 166.1 47.5 (6.54") (1.87

Wiring diagrams

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Certifications and compliance

e er an ea a en e	
Compliance	
	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
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching