



Product designation Product type designation			Power contactor B310
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	450
Operational current le		_	
	AC-1 (≤40°C)	A	450
	AC-1 (≤55°C)	A	370
	AC-1 (≤70°C)	A	300
	AC-3 (≤440V ≤55°C)	A	320
Deted energianal nerver AC 2 (T <e5°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>150</td></e5°c)<>	AC-4 (400V)	A	150
Rated operational power AC-3 (T≤55°C)	2201/	1.1.1/	100
	230V 400V	kW kW	100 170
	400V 415V	кvv kW	188
	413V 440V	kW	200
	440V 500V	kW	213
	690V	kW	256
	1000V	kW	180
Rated operational power AC-1 (T≤40°C)	10001		100
	230V	kW	158
	400V	kW	270
	500V	kW	350
	690V	kW	488
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	А	375
	110V	А	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	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	7-11		075
	75V	A	375
	110V	A	350
	220V	A	350

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 110...125VAC/DC

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	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			INI.	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	9650
Conductor section				
	AWG/kcmil conductor section			0.4.0/0
Operations		max		2x 3/0
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data			0,000	
	10d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	10000000
Mirror contate accord	ling to IEC/EN 609474-4-1			yes
winter contais accord	J			
EMC compatibility	<u> </u>			yes
EMC compatibility	<u> </u>			yes
EMC compatibility AC coil operating				
EMC compatibility AC coil operating		min	V	110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz	min max	V V	
EMC compatibility AC coil operating	50/60Hz, 60Hz			110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz	max	V	110 125
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min	V %Us	110 125 80
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max	V	110 125
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	110 125 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	110 125 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	max min max	V %Us %Us	110 125 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	110 125 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	max min max min	V %Us %Us %Us	110 125 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	max min max min max	V %Us %Us %Us %Us	110 125 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	max min max min max min max	V %Us %Us %Us %Us %Us	110 125 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	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	110 125 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	max min max min max min max	V %Us %Us %Us %Us %Us	110 125 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	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	110 125 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	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	110 125 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	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	110 125 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	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	110 125 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	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us	110 125 80 110 20 60 80 110 20 60 80 110 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 pick-up	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	110 125 80 110 20 60 80 110 20 60 80 80

of 50/60Hz coil powered at 50Hz

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110...125VAC/ in-rush VA 300 holding VA 10

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			noiding	٧A	10
	of 50/60Hz coil p	powered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissinction at holding			Tiolding	W	10
Dissipation at holding	SZU C 50HZ			VV	10
DC coil operating					
DC rated control voltage	ge				
			min	V	110
			max	V	125
DC operating voltage					
Do operating voltage	niek un				
	pick-up			0/11	
			min	%Us	80
			max	%Us	110
	drop-out				
	-		min	%Us	20
			max	%Us	60
Average seil consump	tion <20°C		Пах	/000	00
Average coil consump	u0H ≥20 C			147	000
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times				.,	
Average time for Us co	ontrol				
Average line for 05 c					
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
		1 5	min	ms	30
			max	ms	75
	in DO		Шал	1115	75
	in DC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
					75
III toobaical data			max	ms	1.0
UL technical data					
Full-load current (FLA)) for three-phase A	C motor			
			at 480V	Α	301
			at 600V	А	289
Yielded mechanical pe	erformance				
	for three-phase	AC motor			
	ior unce-priase		200/2021	ЦР	100
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	300
General USE					
	Contactor				
	Contactor			^	450
<u></u>			AC current	Α	450
Short-circuit protectior					
	Standard fault				
			Short circuit current	kA	18

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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

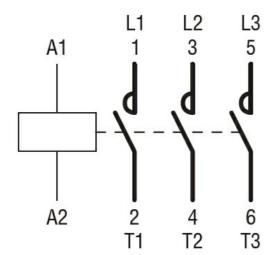


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Ambient conditions Temperature Operating temperature Storage temperature	Fuse rating Fuse class min max	A °C °C °C °C	800 L -50 70 -60 80	
Max altitude		m	3000	
Resistance & Protection			0	
Pollution degree Dimensions			3	
$Withg diagrams \\ \begin{array}{c} & & & & & & & & & & & & & & & & & & &$			5_20")	140 (5.51") 179 (7.05")

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Certifications and compliance

e er an ea a en er 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