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Product designation			Power contactor B310
Product type designation Contact characteristics			D310
Number of poles		Nr.	4
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		Α	450
Operational current le			
	AC-1 (≤40°C)	A	450
	AC-1 (≤55°C)	Α	370
	AC-1 (≤70°C)	A	300
	AC-3 (≤440V ≤55°C)	A	320
	AC-4 (400V)	A	150
Rated operational power AC-1 (T≤40°C)	000)/	1.3.47	450
	230V 400V	kW	158
		kW	270
	500V 690V	kW kW	350 488
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	ĸvv	400
	75V	А	375
	110V	A	195
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	А	375
	110V	А	350
	220V	А	300
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	А	375
	110V	А	350
	220V	Α	350
	330V	Α	300
	460V	Α	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	Α	375
	110V	A	350
	220V	A	350
	330V	A	350
	460V	A	300

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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	А	310
	110V	A	170
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	Α	310
	110V	Α	290
	220V	Α	230
	330V	А	
	460V	А	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	100 1	73	
IEC max current le in DC3-DC5 with E/K = 15ms with 5 poles in series		٨	240
	75V	A	310
	110V	А	310
	220V	А	290
	330V	Α	230
	460V	А	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	А	310
	110V	A	310
	220V		
		A	310
	330V	A	230
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)		Α	2900
Protection fuse			
	gG (IEC)	А	500
	aM (IEC)	А	400
Making capacity (RMS value)	. ,	А	3150
Breaking capacity at voltage			0.00
Dreaking oupdoity at voltage	440V	А	3000
	500V	A	2700
	690V	A	2520
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	lth	W	40.5
	AC3	W	20
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin Ibin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			_
AWG/Kcmil			0.0/0
	max		2x 3/0
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			



Operating position

Operating position	normal		Vertical plan
Fixing	allowable		±30° Screw
Weight		g	1114
Conductor section		9	1117
AWG/kcmil conductor section			
	max		2x 3/0
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	700000
Safety related data		,	
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	1000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	220
	max	V	240
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up	min	%Us	80
	max	%Us	110
drop-out	max	/003	110
alop-out	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz	max		
pick-up			
From ob	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA	10
	_ v		
of 50/60Hz coil powered at 60Hz	<u>_</u>		
of 50/60Hz coil powered at 60Hz	in-rush	VA	300
of 50/60Hz coil powered at 60Hz Dissipation at holding ≤20°C 50Hz		VA VA W	300 10 10

DC rated control voltage



11B310400220 CONTACTEUR 4P 450A AC1 AVEC BOBINE AC/DC 220...240V

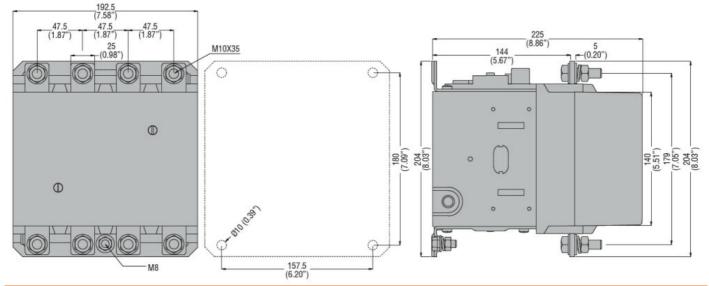
nax V 240 DC operating voltage pick-up min %Us 80 drop-out min %Us 80 drop-out min %Us 60 Nverage coll consumption <20°C in-rush W 300 Max cycles frequency w 10 300 Asc cycles frequency max ms 80 Verage time for Us control in AC Closing NO min ms 80 Max max ms 30 max ms 30 Tin DC Closing NO min ms <th></th> <th></th> <th></th> <th>min</th> <th>V</th> <th>220</th>				min	V	220
pick-up min %Us 80 drop-out min %Us 80 werage coll consumption ≤20°C in-rush W 300 holding W 300 holding W 300 Max cycles frequency u u 300 holding W 300 Verage time for Us control in AC Closing NO min ms 80 Verage time for Us control in AC Closing NO min ms 80 min DC Closing NO min ms 80 max ms 75 in DC Closing NO min ms 80 max ms 75 Lt technical data min ms 80 max ms 75 Lt technical performance min ms 30 max ms 30 max for three-phase AC motor 200/208V HP 100 200/208V HP 25 460/480V HP						
pick-up min %Us 80 drop-out min %Us 80 werage coll consumption ≤20°C in-rush W 300 holding W 300 holding W 300 Max cycles frequency u u 300 holding W 300 Verage time for Us control in AC Closing NO min ms 80 Verage time for Us control in AC Closing NO min ms 80 min DC Closing NO min ms 80 max ms 75 in DC Closing NO min ms 80 max ms 75 Lt technical data min ms 80 max ms 75 Lt technical performance min ms 30 max ms 30 max for three-phase AC motor 200/208V HP 100 200/208V HP 25 460/480V HP	DC operating voltage					
max %/Us 110 drop-out min %/Us 20 max %/Us 60 Avverage coil consumption ≤20°C in-rush MV 300 Max cycles frequency W 10 Max cycles frequency W 10 Max cycles frequency W 2400 Operating time for Us control In AC 2400 In AC Closing NO min ms 80 Max cycles frequency Max ms 120 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 120 Ut technical data max ms 120 max ms 120 Full-load current (FLA) for three-phase AC motor at 800V A 301 301 fielded mechanical performance for three-ph		pick-up				
drop-out min %Us 20 max %Us 60 Vverage coll consumption ≤20°C in-rush W 300 Max cycles frequency in-rush W 300 Mechanical operation cycles/h 2400 Operating times verage time for Us control in AC In AC Closing NO min ms 80 Mexax ms 120 min ms 80 Opening NO min ms 80 max ms 120 In DC Closing NO min ms 80 max ms 120 Opening NO min ms 80 max ms 120 UL technical data min ms 80 max ms 75 UL technical data min ms 30 max ms 75 UL technical data min ms 30 1 1 100 220/203/V HP 100				min	%Us	80
min %Us 20 max %Us 60 Average coil consumption \$20°C in-rush holding W 300 Max cycles frequency w 10 Max cycles frequency cycles/h 2400 Mechanical operation cycles/h 2400 Operating times werage time for Us control in AC min ms 80 Max ms 120 max ms 120 Opening NO min ms 30 max ms 120 Utechnical data technical data technical data technical data				max	%Us	110
max %/s/s 60 Nverage coil consumption \$20°C in-rush holding W 300 Aax cycles frequency W 300 Mechanical operation cycles/h 2400 Pperfating times V 300 Werage time for Us control in AC V V Closing NO min ms 80 max ms 120 max ms 120 Opening NO min ms 30 max ms 120 Ut technical data v at 480V A 301 at 600V A 289 fielded mechanical performance for three-phase AC motor 220/208V HP 100 220/208V HP 125 460/40V <t< td=""><td></td><td>drop-out</td><td></td><td></td><td></td><td></td></t<>		drop-out				
Average coil consumption ≤20°C in-rush W 300 holding W 300 holding W 300 holding W 10 Verage time for Us control in AC closing NO min ms 80 max ms 120 Opening NO min ms 80 max ms 120 max ms 120 Opening NO min ms 80 max ms 120 max ms 120 Opening NO min ms 80 max ms 120 max ms 120 Opening NO min ms 80 max ms 120 max ms 120 Opening NO min ms 80 max ms 120 max ms 120 Opening NO min ms 80 max ms 120 max ms 120 Opening NO min ms 80 max ms 75 max ms 120 U technical data restart restart restart Full-load current (FLA) for three-phase AC motor at 480V A 301 at 600V A 289 /fielded mechanical performance for three-phase AC motor 200/208V HP 100 220/230V HP 125 460/480V HP 250 575/600V HP 300 General USE Contactor A 50 Standard fault Short circuit protection fuse, 600V Fuse class KA 18 800 Fuse class 800 Fuse class L Arbient conditions Fuse class L KA 18 Fuse class 800 Fuse class				min		
in-rush holding W 300 holding Max cycles frequency expected frequency 2400 Operating times cycles/h 2400 Verage time for Us control in AC Closing NO min ms 80 Opening NO min ms 80 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 80 max ms 120 Ut technical data max ms 120 max ms 30 Full-load current (FLA) for three-phase AC motor at 600V A 289 20/203V HP 100 220/203V HP 120 460/480V HP 250 575/600V				max	%Us	60
holding W 10 Max cycles frequency 2400 Advectanical operation cycles/h 2400 Deparating times	Average coil consump	otion ≤20°C				
Max cycles frequency yotes/h 2400 Average time for Us control in AC Closing NO min ms 80 Average time for Us control in AC Closing NO min ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 80 max ms 120 Opening NO max ms 120 max ms 120 Opening NO max ms 120 max ms 120 Utechnical data max ms 120 max ms 120 Utechnical data max ms 301 at 600V A 289 fielded mechanical performance for three-phase AC motor 200/208V HP 100 220/230V HP 125 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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min ms 30 max ms 75 JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 301 at 600V A 289 (fielded mechanical performance for three-phase AC motor 200/208V HP 100 220/230V HP 100 220/230V HP 125 460/480V HP 250 575/600V HP 300 General USE Contactor AC current A 450 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions Femperature Operating temperature Min °C -50 max °C 70				max	ms	120
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JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 301 at 600V A 289 //ielded mechanical performance for three-phase AC motor 200/208V HP 100 220/230V HP 125 460/480V HP 250 575/600V HP 300 General USE Contactor AC current A 450 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 800 Fuse class L Ambient conditions Femperature Operating temperature $min \ ^{\circ}C \ -50$						
Full-load current (FLA) for three-phase AC motor at 480V A 301 at 600V A 289 /ielded mechanical performance for three-phase AC motor 200/208V HP 100 220/203V HP 100 220/208V HP 125 460/480V HP 250 575/600V HP 300 General USE Contactor AC current A 450 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 800 Euse class L Ambient conditions L Short circuit current KA 18 Femperature Operating temperature L Short circuit current KA 18 Modernerature Short circuit current KA 18 Short circuit current KA 18 Fuse class L Short circuit current KA 18 Short circuit current KA 18 Fuse class L Short circuit current KA 18 Short circuit current Short circuit current Short ci	II. to dealer to be to			max	ms	75
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rielded mechanical performance for three-phase AC motor 200/208V HP 100 220/230V HP 125 460/480V HP 250 575/600V HP 300 General USE Contactor Contactor AC current A 450 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions Femperature Operating temperature $\underbrace{ \begin{tabular}{lllllllllllllllllllllllllllllllllll$						
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460/480V HP 250 575/600V HP 300 General USE Contactor AC current A 450 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 800 Euse class L Ambient conditions L Short circuit current KA 18 Femperature Operating temperature Min °C -50 min °C 70 70 °C 70						
Seneral USE Contactor AC current A 450 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Short circuit current kA 18 800 800 Fuse rating A 800 Euse class L Ambient conditions Coperating temperature min °C -50 max °C 70 70						
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Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions V Temperature V Operating temperature min °C min °C 70	Short-circuit protectior	n fuse, 600V				
Fuse rating A 800 Fuse class L Ambient conditions						
Fuse class L Ambient conditions				Short circuit current	kA	18
Ambient conditions Temperature Operating temperature min °C -50 max °C 70				-	А	
Femperature Operating temperature max °C 70				Fuse class		L
Operating temperature min °C -50 max °C 70	Ambient conditions					
min °C -50 max °C 70	Femperature					
max °C 70		Operating temperat	ture			
		Storage temperatur		max	°C	/0



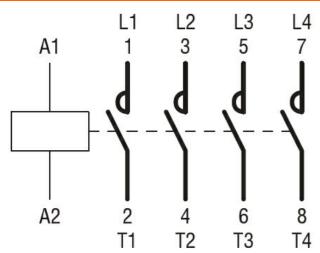
11B310400220 CONTACTEUR 4P 450A AC1 AVEC BOBINE AC/DC 220...240V

CONTACTEOR 4P 450A ACT AVEC BOBINE AC/DC 220...240V

Max altitudem3000Resistance & Protection3		min max	°C °C	-60 80
Resistance & Protection 3 Pollution degree 3	Max altitude	IIIdX	-	
				3
	Dimensions [mm (in)]			



Wiring diagrams



Certifications and compliance

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 classificatio	bn



ETIM 8.0

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EC000066 -Power contactor, AC switching