11B6301000400440



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1000A, AC/DC COIL, 440...480VAC/DC



Product designation			
			Power contactor
Product type designation			B6301000
Contact characteristics			
Number of poles		Nr.	4
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	тал	A	1000
Operational current le		73	1000
	AC-1 (≤40°C)	А	1000
	AC-1 (≤55°C)	A	850
	AC-1 (≤70°C)	A	700
	AC-4 (400V)	A	260
Rated operational power AC-1 (T≤40°C)	70-4 (4007)	~	200
	230V	kW	350
	400V	kW	600
	400V 500V	kW	750
	690V	kW	1000
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	K V V	1000
The max current le in DCT with $L/R \leq 100$ with 1 poles in series	75V	۸	900
	110V	A	800 460
	220V	A	400
	330V	A	
	460V	A	
IFC may aurrent to in DC1 with 1/D < 1ma with 2 nation in parion	460 V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	751/	٨	000
	75V	A	800
	110V	A	800
	220V	A	700
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	751/	•	000
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	700
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	750
	460V	A	700

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series



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75V A 800 110V A 460 220V A --330V A --

IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	330V 460V 75V	A A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series		Α	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V		
		А	800
	110V	A	800
	220V	A	700
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	400 V		
EC max current le in $DC3$ - $DC3$ with $E/R \le 15$ ms with 5 poles in series	75\/	^	800
	75V	A	800
	110V	A	800
	220V	A	800
	330V	А	650
	460V	A	
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	75V	А	800
	110V	А	800
	220V	A	800
	330V	A	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		A	5600
		A	5000
Protection fuse	gG (IEC)	А	1000
Making capacity (RMS value)	<u> </u>	A	6300
Breaking capacity at voltage			
breaking capacity at voltage	440V	А	6300
	500V	A	5600
	690V	A	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	140
	AC-3	W	56
Fightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
		Ibin	40.6
Fightoning torque for coll terminal	max		40.0
Tightening torque for coil terminal			4
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2x 900 kcmil
Power terminal protection according to IEC/EN 60529	max		IP00
Mechanical features			
Operating position	normal		Vertical plan



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		allowable		±30°
Fixing				Screw
Weight			g	26
Conductor section				
AWG	G/kcmil conductor section			
		max		2x 900 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d acc	ording to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according to IE	EC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	2011			
Rated AC voltage at 50/60Hz	2, 6UHZ		. /	4.40
		min	V	440
		max	V	415
AC operating voltage				
of 50	0/60Hz coil powered at 50Hz			
	pick-up		%Us	90
		min		80
	dran aut	max	%Us	110
	drop-out	min	%Us	20
		min	%Us %Us	20 60
of 50)/60Hz coil powered at 60Hz	max	/005	00
0150	pick-up			
	ριακ-αρ	min	%Us	80
		max	%Us	110
	drop-out	Шах	/000	110
		min	%Us	20
		max	%Us	60
of 60	Hz coil powered at 60Hz	Шах	,	
	pick-up			
	L AL	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consumptior	n at 20°C			
)/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA	18
of 50)/60Hz coil powered at 60Hz			
		in-rush	VA	400
		holding	VA	18
Dissipation at holding ≤20°C	50Hz		W	18
DC coil operating				
DC rated control voltage				
		min	V	440
			V	415



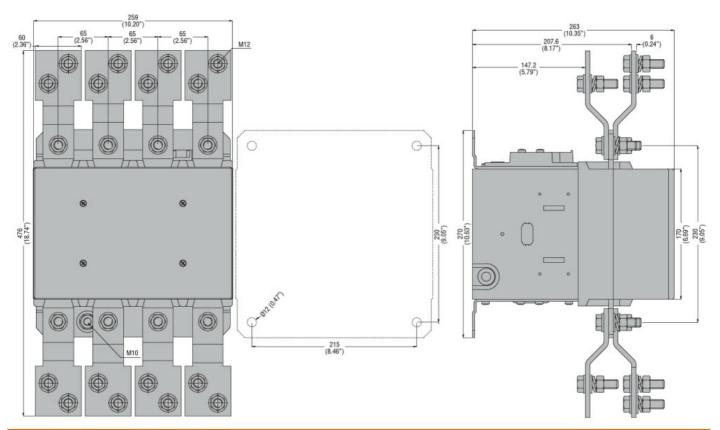
ENERGY AND AUTOMATION

pick-up min %Us 80 drop-out min %Us 20 max %Us 60 Average coil consumption ≤20°C in-rush W 400 Max cycles frequency W 18 Max cycles frequency W 100 Operating times Closing NO min ms 110 Average time for Us control in AC Closing NO min ms 180 Opening NO min ms 100 max ms 100 In DC Closing NO min ms 110 max ms 100 Ut technical data max ms 100 min ms 100 Ut technical data max ms 100 max 100 100 Ut technical data Max 1000 max						
min %Us 80 drop-out min %Us 20 max %Us 60 Average coil consumption \$20°C in-rush W 400 holding W 18 Max cycles frequency Wethanical operation cycles/h Max cycles frequency cycles/h 1200 Operating times Average time for Us control in AC cycles/h 1200 Operating NO min ms 180 Opening NO min ms 180 Opening NO min ms 100 in DC Closing NO min ms 180 Opening NO min ms 100 max ms 100 UL technical data General USE Contactor A 1000 Min ms 100 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1500 Fuse rating A 1500 <td>DC operating voltage</td> <td></td> <td></td> <td></td> <td></td> <td></td>	DC operating voltage					
max %Us 110 drop-out min %Us 20 Average coll consumption ≤20°C in-rush W 400 holding W 400 holding W 400 Max cycles frequency in-rush W 400 Max cycles frequency cycles/h 1200 Operating times cycles/h 1200 Average time for Us control in AC closing NO min ms 100 Max cycles frequency Closing NO min ms 100 max ms 100 Average time for Us control in AC Closing NO min ms 100 Max ms 100 min ms 100 Opening NO min ms 100 max 100 Ut technical data max ms 100 max 100 Short-circuit protection fuse, 600V standard fault Short circuit current KA 18 Ambient		pick-up				
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max %Us 60 Average coll consumption ≤20°C in-rush holding W 400 Max cycles frequency verage time for Us control 18 Operating times cycles h 1200 Average time for Us control in AC min ms 110 Max cycles frequency cosing NO min ms 180 Operating times Closing NO min ms 60 Max and the cosing NO min ms 180 Opening NO min ms 100 in DC Closing NO min ms 100 Max ms 180 00 max ms 100 Ut technical data min ms 60 max max 100 Short-circuit protection fuse, 600V standard fault Short circuit current A 180 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating temperature Mis fault Short circuit current <td></td> <td>drop-out</td> <td></td> <td></td> <td></td> <td></td>		drop-out				
Average coil consumption ≤20°C in-rush in-rush bolding W 400 holding Max cycles frequency 0 18 Mechanical operation cycles/h 1200 Operating times 0 1200 Average time for Us control in AC 0 In AC Closing NO min ms 110 Opening NO min ms 60 max ms 100 In DC Closing NO min ms 60 max ms 100 UL technical data 0 min ms 60 max ms 100 General USE Contactor AC current A 1000 100 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1500 Fuse class L Ambient conditions Temperature min °C -50 max< °C				min		
in-rush holding W 400 blobing Max cycles frequency w 1200 Mechanical operation cycles/h 1200 Operating times v 400 Average time for Us control in AC Closing NO min ms 110 max ms 180 Operating times 100 Operating NO min ms 100 in DC Closing NO min ms 100 Operating NO min ms 100 Ut technical data max ms 100 Ut technical data Max 100 min ms 60 max ms 100 Ut technical data Contactor A 1000 min ms 60 max ms 100 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1500 Fuse class L A 1500 E A 1500 C Temperatur				max	%Us	60
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Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min ms 110 max ms 180 Opening NO min ms 60 max ms 100 in DC Closing NO min ms 110 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 60 max ms 100 UL technical data General USE Contactor Stort-circuit protection fuse, 600V Standard fault Short-circuit protection fuse, 600V Standard fault Short-circuit protection fuse, 600V Standard fault Cortactor AC current A 1000 Fuse class L Ambient conditions Temperature Operating temperature Operating temperature Max altitude Resistance & Protection Resistance & Protection Publicitic degree Storage temperature Max altitude Resistance & Protection Puse class A 3 300						
Mechanical operation cycles/h 1200 Operating times				holding	W	18
Operating times Average time for Us control in AC Closing NO min ms 0pening NO min ms in DC Closing NO Closing NO min ms in DC Closing NO min ms fin DC Closing NO min ms max ms 0pening NO min ms fin DC min Closing NO min ms fin DC min Closing NO min max ms fin DC min Closing NO min min ms fin DC min Closing NO min min ms fin DC fin DC Contactor A Short-circuit protection fuse, 600V fin DC Standard fault Fuse rating Fuse rating A fin Dereratu	Max cycles frequency					
Average time for Us control in AC Closing NO min ms 110 Max ms 180 max ms 180 Opening NO min ms 60 max ms 100 in DC Closing NO min ms 100 ms 100 in DC Closing NO min ms 110 max ms 180 Opening NO min ms 110 max ms 180 Opening NO min ms 110 max ms 180 Opening NO min ms 100 max ms 100 UL technical data max ms 100 max ms 100 Stort circuit protection fuse, 600V standard fault Stort circuit current KA 18 Fuse rating A 1500 standard 1500 standard Temperature min °C -50 max °C 70 <	Mechanical operation				cycles/h	1200
in AC $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Operating times					
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max ms 100 in DC Closing NO min ms 110 max ms 180 max ms 180 Opening NO min ms 60 max ms 100 UL technical data max ms 100 max ms 100 UL technical data max ms 100 max ms 100 UL technical data max ms 1000 max ms 1000 Short-circuit protection fuse, 600V Standard fault KA 18 1500 ms 1500 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 1500 Euse class L Ambient conditions L Ambient conditions L Ambient conditions T			Opening NO			
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Closing NO min ms 110 max ms 180 Opening NO min ms 60 max ms 100 UL technical data ms 100 General USE contactor a 1000 Short-circuit protection fuse, 600V AC current A 1000 Short-circuit protection fuse, 600V Standard fault short circuit current kA 188 Fuse rating A 1500 standard fault				max	ms	100
$\begin{array}{ccccccccc} & & & & & & & & & & & & & & &$		in DC				
$\begin{array}{c c c c c } & max & ms & 180 \\ & min & ms & 60 \\ & max & ms & 100 \\ \hline \\ & max & ms & 100 \\ \hline \\ & max & ms & 100 \\ \hline \\ & max & ms & 100 \\ \hline \\ & max & ms & 100 \\ \hline \\ & max & ms & 100 \\ \hline \\ & & & & & & & & & & & & & & & & &$			Closing NO			
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min ms 60 max ms 100 UL technical data				max	ms	180
max ms 100 UL technical data			Opening NO			
UL technical data General USE Contactor AC current A Short-circuit protection fuse, 600V Standard fault Short circuit current kA Fuse rating A Fuse rating A fuse class L Ambient conditions L Temperature Operating temperature Max altitude min °C Max altitude m 3000				min	ms	60
General USE AC current A 1000 Short-circuit protection fuse, 600V Standard fault Short-circuit current kA 18 Fuse rating A 1500 Fuse rating A 1500 Fuse class L Ambient conditions Temperature Min °C -50 Min °C -50 min °C -50 Max altitude min °C -60 Max altitude m 3000				max	ms	100
Contactor AC current A 1000 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1500 Fuse class 1500 Fuse class L Ambient conditions E E Temperature Operating temperature Image: min °C -50 max Max altitude min °C -60 max °C 80 Max altitude m 3000 3	UL technical data					
AC current A 1000 Short-circuit protection fuse, 600V Standard fault KA 18 Short circuit current KA 18 Fuse rating A 1500 Fuse class L Ambient conditions L Temperature min °C -50 Model min °C -50 Max altitude min °C -60 Max altitude m 3000	General USE					
Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1500 Fuse class L Ambient conditions Temperature Operating temperature Operating temperature Max altitude min °C -60 max °C 70 Storage temperature Max altitude min 3000 Resistance & Protection Pollution degree 3		Contactor				
Standard fault Short circuit current KA 18 Fuse rating A 1500 Fuse class L Ambient conditions L Temperature 0 Operating temperature -50 min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3				AC current	А	1000
Standard fault Short circuit current KA 18 Fuse rating A 1500 Fuse class L Ambient conditions L Temperature 0 Operating temperature -50 min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	Short-circuit protection	fuse, 600V				
Fuse rating Fuse rating Fuse class A 1500 L Ambient conditions L L Temperature Operating temperature V -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 3						
Fuse rating Fuse rating Fuse class A 1500 L Ambient conditions L L Temperature Operating temperature V -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 3				Short circuit current	kA	18
Fuse class L Ambient conditions Temperature Image: Second Seco				Fuse rating		
Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3						
Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	Ambient conditions					
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Temperature					
min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	•	Operating temperature				
max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3				min	°C	-50
Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3						
min°C-60max°C80Max altitudem3000Resistance & ProtectionPollution degree3		Storage temperature			-	
max°C80Max altitudem3000Resistance & ProtectionPollution degree3				min	С°	-60
Max altitude m 3000 Resistance & Protection Pollution degree 3						
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Pollution degree 3		n				
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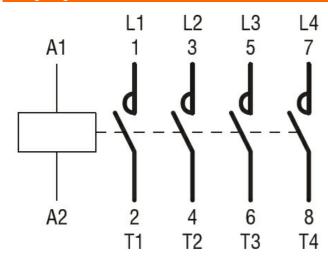
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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1000A, AC/DC COIL, 440...480VAC/DC



Wiring diagrams



Certifications and compliance

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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	

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ETIM 8.0

EC000066 -Power contactor, AC switching