## 11B5004L00220220



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VAC



Product designation			Power contactor
Product type designation			B500
Contact characteristics		Ν.	4
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			05
	min	Hz	25
IEC Conventional free air thermal current Ith	max	Hz A	400 700
Operational current le		A	700
Operational current le	AC-1 (≤40°C)	А	700
	AC-1 (≤55°C)	A	550
	AC-1 (≤55°C) AC-1 (≤70°C)	A	500
	AC-3 (≤440V ≤55°C)	A	520
	AC-4 (400V)	A	240
Rated operational power AC-1 (T≤40°C)	/ (C + (100 V)		2.0
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	А	650
	110V	А	320
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	Α	650
	110V	А	550
	220V	А	450
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		-	
	75V	A	650
	110V	A	600
	220V	A	600
	330V	A	450
IFC may autrent to in DC1 with L/D < 1mg with 4 notes in pariog	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	75\/	^	650
	75V 110V	A A	650 600
	220V	A A	600 600
	220V 330V	A	600
	460V	A	450
	400 V	~	



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ENERGY AND AUTOMATION

220...240VAC

IFC may automate to in DC2 DC5 with 1/D < 45 may with 4 malas in assiss			
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series	75V	А	550
	110V	A	320
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	75V	A	550
	110V	A	550
	220V	А	450
	330V	А	
	460V	Α	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	A	450
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	1001	7.	
	75V	А	550
	110V	A	550 550
	220V	A	550
	330V	A	450
	460V	A	450
Short-time allowable current for 10s (IEC/EN60947-1)		А	4050
Protection fuse			
	gG (IEC)	А	800
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	А	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			-
	lth	W	68.6
	AC-3	Ŵ	35
Tightening torque for terminals	700	**	
	min	Nim	35
	min	Nm Nm	
	max	Nm	35
	min	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			
	max		2x 500 kcmil
Power terminal protection according to IEC/EN 60529	max		IP00



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ENERGY AND AUTOMATION

Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	2140
Conductor section				
	AWG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
	0d according to EN/ISO 13489-1			
	C C	rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		- ,	yes
EMC compatibility	<u> </u>			yes
AC coil operating				•
Rated AC voltage at 5	0/60Hz. 60Hz			
inter to tonago at o		min	V	220
		max	v	240
AC operating voltage		Пах	v	210
to operating venage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pick up	min	%Us	80
		max	%Us	110
	drop-out	Шал	/003	110
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz	Шал	/003	00
	pick-up			
	pick-up	min	%Us	80
			%Us	110
	drop out	max	/005	110
	drop-out	min	%Us	20
		min	%Us %Us	20 60
	of 60Hz coil powered at 60Hz	max	/005	00
	·			
	pick-up	min	%Us	80
		min		
	dran aut	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	umption at 20°C	max	%Us	60
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	••	1/4	400
		in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			100
		in-rush	VA	400
				4.0
Dissipation at holding		holding	VA W	18 18

DC rated control voltage

220...240VAC

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			min	V	220
			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO	min	-	60
			min	ms	100
	in DC		max	ms	100
	IN DC	Closing NO			
			min	ms	110
			max	ms	180
		Opening NO	Παλ	1113	100
		opening No	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	700
Short-circuit protection	fuse, 600V				
·	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectic	n				
Pollution degree					3
Dimensions					



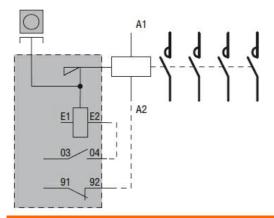
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ENERGY AND AUTOMATION

259 (10.20") 65 (2.56") 263 65 6 (0.24") (6.99\*) Θ Θ 270 230 170 6.69 230 (9.05 θ θ Q 215 M10

CONTACTOR TYPE A В С B500 M10 35 (1.38") 265 (10.43\*) B630 M12 270 (10.63\*) 40 (1.57")

## Wiring diagrams



## Certifications and compliance

## Compliance

CSA C22.2 n° 60947-4-1		
IEC/EN 60947-1		
IEC/EN 60947-4-1		
UL 60947-1		
UL 60947-4-1		

Certificates

cULus

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching

220...240VAC