## 11B500L00380380



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 380...415VAC/DC, MECHANICAL LATCH 380...415VAC



Product designation			Power contactor
Product type designation			B500
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		А	700
Operational current le			
	AC-1 (≤40°C)	A	700
	AC-1 (≤55°C)	A	550
	AC-1 (≤70°C)	A	500
	AC-3 (≤440V ≤55°C)	A	520
	AC-4 (400V)	Α	240
Rated operational power AC-3 (T≤55°C)			
	400V	kW	290
Rated operational power AC-1 (T≤40°C)			
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	A	650
	110V	A	320
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			050
	75V	A	650
	110V	A	550
	220V	A	450
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		٨	050
	75V	A	650
	110V 220V	A	600
	220V 330V	A	600 450
	460V	A A	
IEC may current le in DC1 with $L/P < 1$ me with 4 poles in series	400 V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		۸	650
	75V 110V	A	650 600
	110V	A	600 600
	220V	A	600



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380...415VAC

	330V	А	600
	460V	A	450
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	75V	А	550
	110V	А	320
	220V	А	
	330V	А	
	460V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	75V	A	550
	110V	А	550
	220V	A	450
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	A	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	А	450
Short-time allowable current for 10s (IEC/EN60947-1)		А	4050
Protection fuse			
	gG (IEC)	А	800
	aM (IEC)	A	500
Making capacity (RMS value)		А	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	Α	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	lth	W	68.6
	AC-3	W	35
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	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			
			0 500 1

<sup>11</sup>B500L00380380 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

2x 500 kcmil

max



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ENERGY AND AUTOMATION

380...415VAC

	ection according to IEC/EN 60529			IP00
lechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1880
Conductor section				
	AWG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	500000
Electrical life			cycles	700000
Safety related data				
Performance level E	310d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
	rding to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at	t 50/60Hz, 60Hz		, <i>.</i>	
		min	V	380
	-	max	V	415
AC operating voltag				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
	duese suit	max	%Us	110
	drop-out		0/110	20
		min	%Us %Us	20
	of EQ/COLUZ and powered at COLUZ	max	%US	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		min		
	dran out	max	%Us	110
	drop-out	min	%Us	20
		min max	%Us %Us	20 60
	of 60Hz coil powered at 60Hz	IIIdX	/005	00
	pick-up			
	μιαν-αμ	min	%Us	80
		max	%Us	110
	drop-out	Παλ	/003	
		min	%Us	20
		max	%Us	60
AC average coil cor	nsumption at 20°C	max	,000	
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA VA	18
	of 50/60Hz coil powered at 60Hz	noiding	٧٨	10
		in-rush	VA	400
		11-1051	vA	-00
		holding	VA	18





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ENERGY AND AUTOMATION

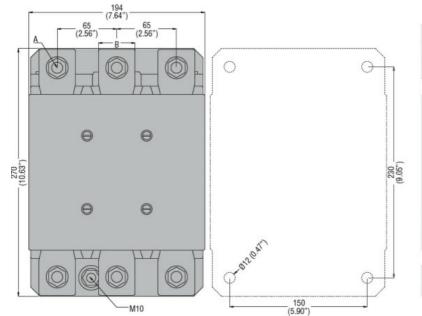
380...415VAC

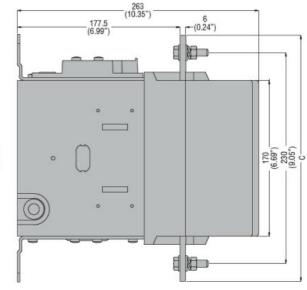
DC coil operating					
DC rated control voltag	je				
			min	V	380
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC				
		Closing NO			110
			min	ms	110
			max	ms	180
		Opening NO	min	me	60
				ms	100
	in DC		max	ms	100
	III DC	Closing NO			
			min	ms	110
			max	ms	180
		Opening NO	Παλ	1115	100
		opening No	min	ms	60
			max	ms	100
UL technical data			Пах	into	100
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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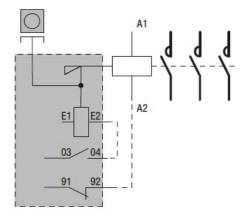
ENERGY AND AUTOMATION





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

## Wiring diagrams



## Certifications and compliance

Complian	ce
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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		
	cULus	
ETIM classification		
		EC000066 -

## **ETIM 8.0**

EC000066 -Power contactor, AC switching