

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION 220...240VDC



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		Α	700
Operational current le			
	AC-1 (≤40°C)	Α	700
	AC-1 (≤55°C)	Α	550
	AC-1 (≤70°C)	Α	500
	AC-3 (≤440V ≤55°C)	Α	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 ≤ 1ms with 1 poles in series			
	75V	Α	650
	110V	Α	320
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	650
	110V	Α	550
	220V	Α	450
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	650
	110V	Α	600
	220V	Α	600
	330V	Α	450
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	650
	110V	Α	600
	220V	Α	600

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	330V	Α	600
	460V	Α	450
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	550
	110V	Α	320
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	550
	110V	Α	550
	220V	Α	450
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
TEC Max current le in DC3-DC3 with E/N = 13/115 with 3 poles in series	75V	۸	550
	75 V 110 V	A	550 550
		A	550 550
	220V	A	550
	330V	A	450
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	550
	110V	Α	550
	220V	Α	550
	330V	Α	450
	460V	Α	450
Short-time allowable current for 10s (IEC/EN60947-1)		Α	4050
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	5000
Breaking capacity at voltage			
	440V	Α	5000
	500V	Α	4500
	690V	Α	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)		11132	0.14
Tower dissipation per pole (average value)	Ith	W	68.6
	AC-3	W	35
Tightoning targue for tarminals	AC-3	VV	30
Tightening torque for terminals	:-	Nima	25
	min	Nm Næ	35
	max	Nm	35
	min	lbin	25.8
	max	Ibin	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

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and 11B500L00220C220 functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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Power terminal protection according to IEC/EN 60529 IP00 Mechanical features Operating position Vertical plan normal allowable ±30° Fixing Screw Weight 1856 g Conductor section AWG/kcmil conductor section 2x 500 kcmil max Operations Mechanical life 5000000 cycles Electrical life 700000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 700000 cycles mechanical load 5000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes **EMC** compatibility yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz ٧ 220 min max ٧ 240 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us min 80 %Us 110 max drop-out %Us 20 min %Us 60 max of 50/60Hz coil powered at 60Hz pick-up %Us min 80 max %Us 110 drop-out %Us 20 min %Us 60 max of 60Hz coil powered at 60Hz pick-up %Us 80 min max %Us 110 drop-out min %Us 20 %Us 60 max AC average coil consumption at 20°C of 50/60Hz 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

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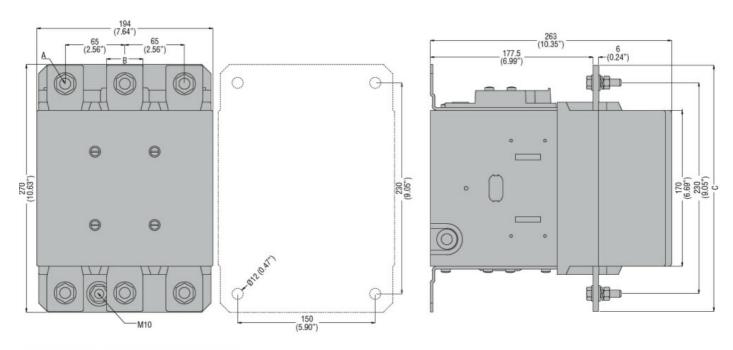
DC coil operating					
DC rated control voltag	ie				
	, -		min	V	220
			max	V	240
DC operating voltage			<u>``</u>		-
1 0 0	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	ion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC	Olaska NO			
		Closing NO			440
			min	ms	110
		Opening NO	max	ms	180
		Opening NO	min	me	60
			max	ms ms	100
	in DC		IIIdx	1113	100
	III DO	Closing NO			
		Olosing NO	min	ms	110
			max	ms	180
		Opening NO			
		1 3	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	Α	700
Short-circuit protection				-	
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1200
A self-territoria della			Fuse class		L
Ambient conditions					
Temperature	Operation town				
	Operating temperature		wa!.a	°C	50
			min	°C	-50 70
	Storage temperature		max	<u> </u>	<i>i</i> U
	Storage temperature		min	°C	-60
			max	°C	80
Max altitude			IIIdX		3000
Resistance & Protection	n			111	
Pollution degree					3
Dimensions					-

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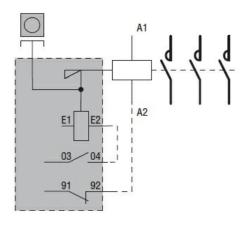
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CONTACTOR TYPE	A	В	C
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

Wiring diagrams



Certifications and compliance

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

ETIM 8.0

EC000066 -Power contactor, AC switching