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

ENERGY AND AUTOMATION



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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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...240VAC

	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	A	550
	220V	A	450
	330V	A	
	460V	A	
IEC may current to in DC2 DC5 with L/B < 15mg with 2 notes in corios	400 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75\/	۸	550
	75V	A	550
	110V	A	550
	220V	A	550
	330V	Α	450
	460V	A	
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			
2. Cartaing capacity at voltage	440V	Α	5000
	500V	A	4500
	690V	A	4000
Posistance per pole (average value)	030 V	mΩ	0.14
Resistance per pole (average value)		11177	0.14
Power dissipation per pole (average value)	141-	147	00.0
	Ith	W	68.6
	AC-3	W	35
Tightening torque for terminals			
	min	Nm	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	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2x 500 kcmil
	max		_x 000 x0mm

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

Power terminal protection according to IEC/EN 60529 IP00 Mechanical features Operating position Vertical plan normal allowable ±30° Fixing Screw Weight 1850 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

11B500L00220220

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ENERGY AND AUTOMATION

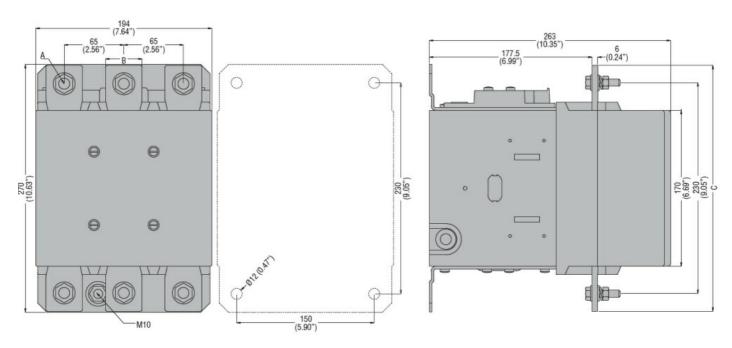
DC coil operating DC rated control voltage V 220 min ٧ 240 max DC operating voltage pick-up %Us min 80 %Us 110 max drop-out %Us 20 min max %Us 60 Average coil consumption ≤20°C 400 in-rush W holding W 18 Max cycles frequency Mechanical operation cycles/h 1200 Operating times Average time for Us control in AC Closing NO 110 ms min ms 180 max Opening NO 60 min ms 100 max ms in DC Closing NO 110 min ms max ms 180 Opening NO 60 min ms 100 max ms UL technical data General USE Contactor AC current Α 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kΑ 18 Fuse rating 1200 Α Fuse class Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min °C 80 max Max altitude 3000 m Resistance & Protection Pollution degree 3 **Dimensions**

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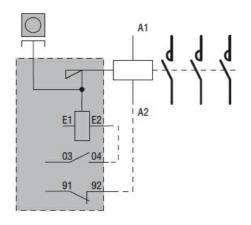
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ENERGY AND AUTOMATION 220...240VAC



CONTACTOR TYPE	A	В	С
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