

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 380...415VAC/DC



Product designation Product type designation			Power contactor B500
Contact characteristics			Б300
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
operational moquency	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)	- (/		
	230V	kW	156
	400V	kW	290
	415V	kW	306
	440V	kW	328
	500V	kW	367
	690V	kW	416
	1000V	kW	312
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



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	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
	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	100 V	- , ,	
The max current to in 600-600 with ETC = 10m3 with 2 poics in school	75V	Α	550
	110V	A	550
	220V	A	450
	330V	A	
IFO are a compart to in DO2 DO5 with 1/D < 45 are with 2 and a imposition	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75)		
	75V	Α	550
	110V	Α	550
	220V	Α	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			
g cap accept of	440V	Α	5000
	500V	Α	4500
	690V	Α	4000
Resistance per pole (average value)	3001	mΩ	0.14
Power dissipation per pole (average value)		11132	<u> </u>
i ovioi dissipation poi poio (average value)	Ith	W	68.6
	AC-3	W	35
Tightoning torque for terminals	AU-3	٧٧	JJ
Tightening torque for terminals		Nime	25
	min	Nm Non	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



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		min	lbin	0.74
		max	Ibin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 500 kcmil
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1850
Conductor section			· <u> </u>	
	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			
	-	rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
· ·		min	V	380
		max	V	415
AC operating voltage				
. 5 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	r	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	F. 2.4	min	%Us	80
		max	%Us	110
	drop-out	······································	, , , ,	- • •
	arop out	min	%Us	20
		max	%Us	60
		шах	,003	
	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz pick-up	min	%l le	80
	·	min may	%Us %Us	80
	pick-up	min max	%Us %Us	80 110
	·	max	%Us	110
	pick-up			

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



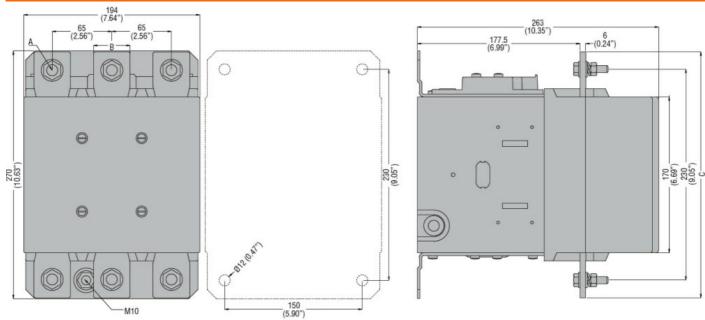
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			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	400
			holding	VA	18
Dissipation at holding	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	ge				000
			min	V	380
DC an arating valtage			max	V	415
DC operating voltage	mials				
	pick-up		min	0/116	0.0
			min	%Us %Us	80
	drop out		max	%08	110
	drop-out		min	%Us	20
			min max	%Us %Us	60
Average coil consump	tion <20°C		IIIdX	/005	00
Average con consump	uon ⊇20 U		in-rush	W	400
			holding	W	18
Max cycles frequency			noiding	V V	10
Mechanical operation				cycles/h	1200
Operating times				Cycles/11	1200
Average time for Us co	ontrol				
Average unic for 05 oc	in AC				
	117.0	Closing NO			
		Cicomig ive	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	100
UL technical data					
General USE					
	Contactor			_	
01 1 1 1 1 1 1 1 1			AC current	Α	700
Short-circuit protection					
	Standard fault		Object also be a second	1. 4	4.0
			Short circuit current	kA ^	18
			Fuse rating	Α	1200
Ambient conditions			Fuse class		L
Temperature	Operating temperature				
	Operating temperature	;	min	°C	-50
				°C	-50 70
	Storage temperature		max	<u> </u>	10
	otorage temperature		min	°C	-60
			111111		

ENERGY AND AUTOMATION

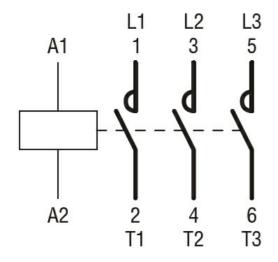
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CONTACTOR TYPE	A	В	С
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

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

CCC



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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching