



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)		
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	A	650
110V	A	320
220V	A	
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	۸	050
75V	A	650
110V	A	550
220V	A	450
330V	A	
IFC may current to in DC4 with L/D < 1 mg with 2 notes in carios	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	^	050
75V	A	650
110V	A	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
	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 suitent 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	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	Ibin	0.74
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 500 kcmil
Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1806
Conductor section				
	AWG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	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 50	0/60Hz, 60Hz			
		min	V	110
AC operating voltage		max	V	125
		max	V	125
	of 50/60Hz coil powered at 50Hz	max	V	125
	of 50/60Hz coil powered at 50Hz pick-up	max	V	125
	•	max min	V %Us	80
	•			
	•	min	%Us %Us	80 110
	pick-up	min	%Us %Us %Us	80 110 20
	pick-up	min max	%Us %Us	80 110
	pick-up	min max min	%Us %Us %Us	80 110 20
	pick-up drop-out	min max min max	%Us %Us %Us %Us	80 110 20 60
	pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us %Us	80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up	min max min max	%Us %Us %Us %Us	80 110 20 60
	pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

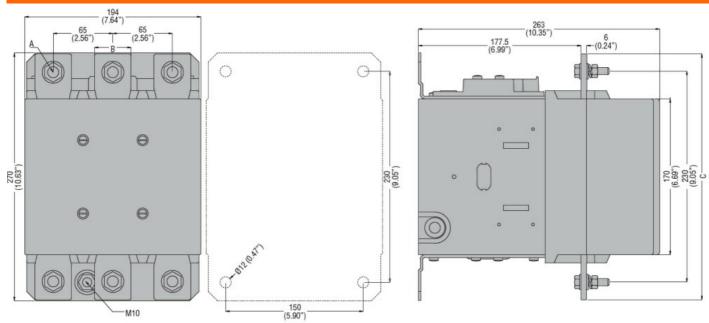


			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
	01 00/001 12 0011 powere	54 4t 001 12	in-rush	VA	400
			holding	VA	18
Dissipation at holding	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	ge .				
			min	V	110
			max	V	125
			IIIdX	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	5.0p 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
-				Cycles/II	1200
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
		-	min	ms	110
			max	ms	180
		Opening NO	max	1110	100
		Opening NO			00
			min	ms	60
			max	ms	100
	in DC				
		Closing NO			
		-	min	ms	110
			max	ms	180
		Opening NO	max	1110	100
		Opening NO	-: :	,	00
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	Α	700
Short-circuit protection	fuse 600\/		7.0 ourion	, · ·	
Short-circuit protection					
	Standard fault		•		
			Short circuit current	kA	18
			Fuse rating	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
i emperature	On a wating to see a see to see				
	Operating temperature	;			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			111111		

ENERGY AND AUTOMATION

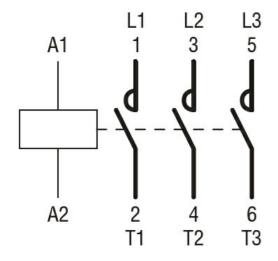
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 110...125VAC/DC





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



11B50000110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 110...125VAC/DC

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching