



Product designation			Power contactor B500
Product type designation Contact characteristics			D000
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		K V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdx	A	700
Operational current le			700
Operational current le	AC-1 (≤40°C)	Α	700
	AC-1 (≤40 C) AC-3 (≤440V ≤55°C)	A	520
	AC-3 (3440V 333 C) AC-4 (400V)	A	175
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)		173
Nated operational power AC-3 (1200 C)	230V	kW	156
	400V	kW	290
	400 V 415 V	kW	306
	440V	kW	
			328
	500V	kW	367
	690V	kW	416
Detail an austional account AO 4 (T<40°C)	1000V	kW	312
Rated operational power AC-1 (T≤40°C)	0001/	1-147	050
	230V	kW	252
	400V	kW	438
	500V	kW	575
01 - 1 ('	690V	kW	755
Short-time allowable current for 10s (IEC/EN60947-1)		Α	4050
Protection fuse	0 (150)		222
	gG (IEC)	A	800
M. I (DMO . I)	aM (IEC)	A	500
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage		_	
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	68.6
	AC3	W	35
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8



ENERGY AND AUTOMATION

Tiebtonies torsus for a	oil to residual			
Fightening torque for c	oli terminai	min	Nm	1
		max	Nm	1
		min	lbft	0.74
		max	lbft	0.74
Max number of wires s	imultaneously connectable	max	nr.	2
	tion according to IEC/EN 60529			IP00
Mechanical features	tion decording to 120/214 00020			11 00
Operating position				
operating position		normal		vertical plan
		allowable		±30°
Fixing		allowable		Screw
Weight			g	1808
Operations			9	1000
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data			oyole3	7 00000
	Od according to EN/ISO 13489-1			
. Shormando lovoi DTC	54 4555741119 to E11/100 10-100 1	rated load	cycles	700000
		mechanical load	cycles	500000
Mirror contats according	ng to IEC/EN 609474-4-1	orianioa ioaa	0,000	yes
EMC compatibility	19 10 12 0/214 000 47 4 4 1			yes
AC coil operating				yes
Rated AC voltage at 50	0/60Hz 60Hz			
ratou / to voltago at o	0,001 12, 001 12	min	V	48
		max	V	480
AC operating voltage		max	•	100
no operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pion ap	min	%Us	80
		max	%Us	110
	drop-out	max	7000	
	a. op 00.	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz	max		
	pick-up			
	pion up	min	%Us	80
		max	%Us	110
	drop-out	······································	, , ,	
	a. op 0 a.	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
	F-2 2F	min	%Us	80
		max	%Us	110
	drop-out			-
	OF	min	%Us	20
		max	%Us	60
	at 20°C			
AC operating voltage a				
AC operating voltage a	of 50/60Hz coil powered at 50Hz			
AC operating voltage a	of 50/60Hz coil powered at 50Hz	in-rush	VA	400
AC operating voltage a	of 50/60Hz coil powered at 50Hz	in-rush holding	VA VA	400 18

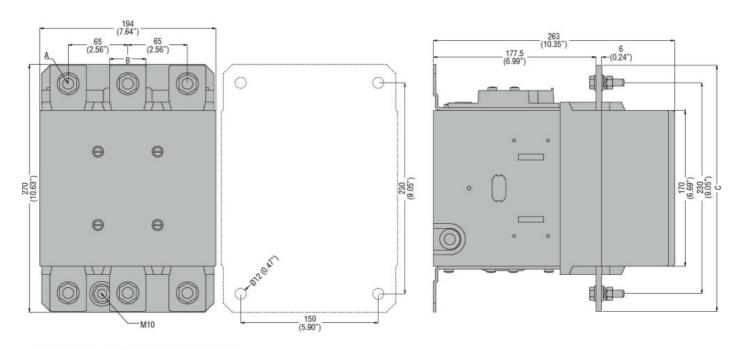


ENERGY AND AUTOMATION

			in-rush	VA	400
			holding	VA	18
Dissipation at holding	≤20°C 50Hz		<u> </u>	W	18
DC coil operating					
DC rated control voltage	je				
70 11			min	V	24
DC operating voltage	adala con				
	pick-up		min	%Us	80
			max	%Us	110
	drop-out		Παλ	/003	110
	diop-out		min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C			,,,,,	
J. J			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operations				cycles/h	1200
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	110
		0 ' 10	max	ms	180
		Opening NO			0.0
			min	ms ms	60 100
	in DC		max	ms	100
	III DC	Closing NO			
		Closing 140	min	ms	110
			max	ms	180
		Opening NO			
		, ,	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	Α	700
Ambient conditions					
Temperature					
	Operating temperature	9		°C	E0
			min	°C	-50 70
	Storage temperature		max	U	10
	Glorage lemperature		min	°C	-60
			max	°C	80
Max altitude			max	m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

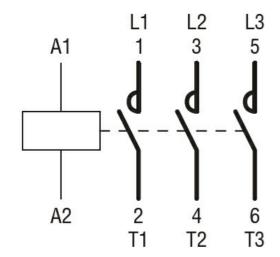


ENERGY AND AUTOMATION



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

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching