



Product designation Product type designation			Power contactor B500
Contact characteristics			
Number of poles		Nr.	4
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	175
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	A	600
	220V	Α	600
	330V	Α	600
	460V	Α	450

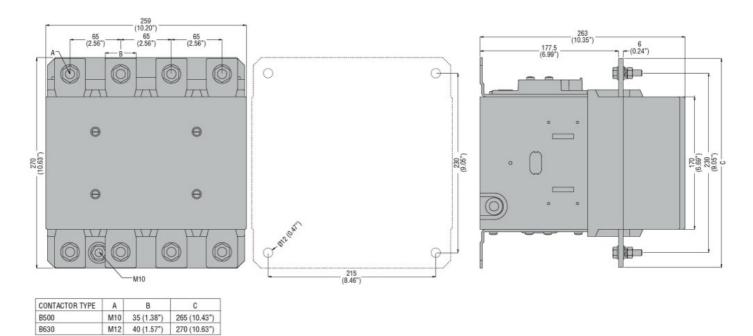
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	550
	110V	Α	320
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	75V	Α	550
	110V	Α	550
	220V	Α	450
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
The max carrone to in 200 200 mar 211 2 forms man a police in conce	75V	Α	550
	110V	A	550
	220V	A	550
	330V	A	450
	460V	A	450 
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	700 v		
TEO MAX current le in DOS-DOS with L/N 2 13ms with 4 poles in selles	75V	Λ	550
		A	
	110V	A	550
	220V	A	550
	330V	A	450
Ol and Carralle and Language (150/EN100047.4)	460V	A	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	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	Ibin	25.8
Tightening torque for coil terminal	111023		
	min	Nm	1
	min max	Nm Nm	1 1
Max number of wires simultaneously connectable	min max	Nm	1
Max number of wires simultaneously connectable  Power terminal protection according to IEC/EN 60529			2
Power terminal protection according to IEC/EN 60529		Nm	1
Power terminal protection according to IEC/EN 60529  Mechanical features		Nm	2
Power terminal protection according to IEC/EN 60529	max	Nm	1 2 IP00
Power terminal protection according to IEC/EN 60529  Mechanical features	max	Nm	1 2 IP00 Vertical plan
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position	max	Nm	1 2 IP00 Vertical plan ±30°
Power terminal protection according to IEC/EN 60529  Mechanical features	max	Nm	1 2 IP00 Vertical plan

Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats accord	ing to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 5	50/60Hz, 60Hz			
		min	V	220
		max	V	240
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/17	00
		min	%Us	20
	-f 50/0011 1 1 1 2011	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	00
		min	%Us	80
	drop out	max	%Us	110
	drop-out	min	0/116	20
		min	%Us	20
	of 60Hz coil powered at 60Hz	max	%Us	60
	pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	IIIax	/003	110
	drop-out	min	%Us	20
		max	%Us	60
AC average coil cons	umption at 20°C	Пах	7000	
5 a.c. ago oon oons	of 50/60Hz coil powered at 50Hz			
	2. 30.00.12 00.1 portorou at 00112	in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz	19	•	
	1	in-rush	VA	400
		holding	VA	18
Dissipation at holding	≤20°C 50Hz	<u> </u>	W	18
DC coil operating				
DC rated control volta	ge			
		min	V	220
		max	V	240
DC operating voltage				
_	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60

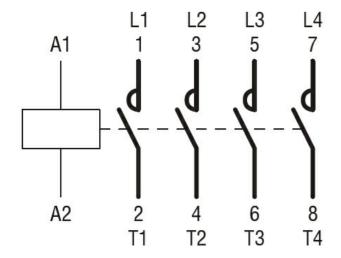




Average coil consump	ntion ≤20°C				
7.Werage oon concamp	711011 = 20 0		in-rush	W	400
			holding	W	18
Max cycles frequency			<u> </u>		
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us of	ontrol				
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
	in DC	01 1 110			
		Closing NO			440
			min	ms	110
		O	max	ms	180
		Opening NO			00
			min	ms	60 100
UL technical data			max	ms	100
General USE					
Conoral CCL	Contactor				
	Contactor		AC current	Α	700
Short-circuit protection	n fuse, 600V		710 00110111		
Criore on our protoculor	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
•	Operating temperature	е			
	· - ·		min	°C	-50
			max	°C	70
	Storage temperature				
	•		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					



#### 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 classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching