**ENERGY AND AUTOMATION** 

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL, 380... 415VAC/DC



Product designation Product type designation			Power contactor B500
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	700
Operating current			
	Operational current AC1 (≤40°C)	Α	700
	Operational current AC3 (≤440V ≤55°C)	Α	520
	Operational current AC4 (400V)	Α	175
Rated operational power AC1 (T≤40°C)			
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
Rated operational power AC3 (T≤55°C)			
	230V	kW	156
	400V	kW	290
	415V	kW	306
	440V	kW	328
	500V	kW	367
	690V	kW	416
	1000V	kW	312
Short-time allowable current for 10s (IEC/EN60947-1)			4050
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	Breaking capacity 440V	Α	6300
	Breaking capacity 500V	Α	5600
	Breaking capacity 690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	68.6
	AC3	W	35
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbft	25.8
	max	lbft	25.8

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ultaneously connectable			
·		nr.	2
AWG			0 5001 "
	max		2x 500 kcmil
n according to IEC/EN 60529			IP00
		•	700
(≤40°C)		Α	700
	4.401.4		
	110V	А	Screw
Operating temperature		0.0	50
			-50
	max	°C	70
storage temperature		0.0	00
			-60
	max		80
		m	3000
	normal		Vertical plan
	allowable		±30°
			Screw
		g	21.75
		Cycles	5000000
		Cycles	700000
according to EN/ISO 13489-1			
	rated load	Cicli	700000
	mechanical load	Cicli	5000000
to IEC/EN 609474-4-1			yes
			yes
of 50/60Hz coil powered at 50Hz			
pick-up			
·			0.8
	min	%Us	0.0
	min max	%Us %Us	1.1
drop-out			
drop-out			
drop-out	max	%Us	1.1
•	max min	%Us %Us	1.1
drop-out of 50/60Hz coil powered at 60Hz pick-up	max min	%Us %Us	1.1
of 50/60Hz coil powered at 60Hz	max min	%Us %Us	1.1
of 50/60Hz coil powered at 60Hz	max min max	%Us %Us %Us	1.1 0.2 0.6
of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	1.1 0.2 0.6
of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	1.1 0.2 0.6
of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up	max min max  min max  min max  min	%Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max  min max  min max  min	%Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1 0.2 0.6
of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max  min max  min max  min	%Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
	Departing temperature  Storage temperature  according to EN/ISO 13489-1  to IEC/EN 609474-4-1  of 50/60Hz coil powered at 50Hz	according to EN/ISO 13489-1  according to EN/ISO 13489-1  rated load mechanical load  to IEC/EN 609474-4-1	eristics (≤40°C) A  110V A  Departing temperature  min °C max °C  Storage temperature  min °C max °C  max °C  max °C  max °C  g  Cycles  Cycles  Cycles  according to EN/ISO 13489-1  rated load mechanical load Cicli mechanical load Cicli to IEC/EN 609474-4-1

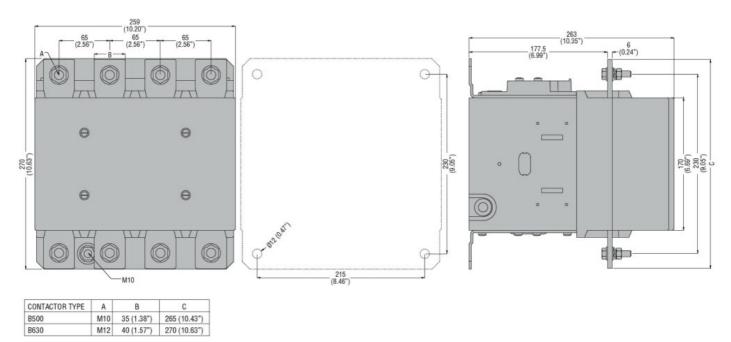
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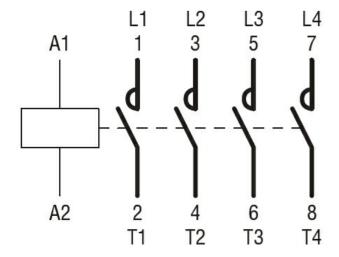
			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	≦20°C 50Hz			W	18
DC coil operating					
DC rated control voltag	je				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
	<del></del>		max	%Us	1.10
	drop-out			0/11	
			min	%Us	0.2
A	- 40000		max	%Us	0.60
Average coil consuptio	n ≤20°C		ta a st	147	400
			in-rush	W	400
May avalag fraguesia			holding	W	18
Max cycles frequency				Cyaloo/b	1200
Mechanical operations Operating times				Cycles/h	1200
Average time for Us co	entrol				
Average time for US Co	in AC				
	III AC	Closing NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO	παλ	1113	100
		Opening NO	min	ms	60
			max	ms	100
	in DC				
	20	Closing NO			
		J	min	ms	110
			max	ms	180
		Opening NO			
		, ,	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	Α	700
Other features					
Pollution degree					3
Dimensions					

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## Wiring diagrams



## Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

## ETIM 6 classification

EC000066 - Power contactor, AC switching