

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



Product designation			Power contactor
Product type designation  Contact characteristics			B500
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated insulation voltage of IEC/EN  Rated impulse withstand voltage Uimp		kV	8
Operational frequency		K V	0
Operational frequency	min	Hz	25
	min	⊓∠ Hz	400
IEC Conventional free air thermal current Ith	max	<u>П</u> 2	700
		A	700
Operational current le	AC 1 (<10°C)	۸	700
	AC-1 (≤40°C)	A	700
	AC-1 (≤55°C)	A	550
	AC-1 (≤70°C)	A	500
	AC-3 (≤440V ≤55°C)	A	520
	AC-4 (400V)	Α	240
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	A	600
	330V	A	600
	460V	A	450
	700 V	$\overline{\Lambda}$	100



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EC 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	
EC 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	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
	75V	Α	550
	110V	A	
			550
	220V	A	550
	330V	A	450
F0	460V	Α	
EC 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			
	440V	Α	5000
	500V	Α	4500
	690V	Α	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
ower dissipation per pere (average value)	Ith	W	68.6
	AC-3	W	35
Fightening torque for terminals	7.0 0	• • • • • • • • • • • • • • • • • • • •	
nghiening torque for terminals	min	Nlm	25
	min	Nm Nm	35 35
	max	Nm	
	min	lbin	25.8
California a farmo farmo il farmo (se l	max	lbin	25.8
Fightening torque for coil terminal			
	min	Nm	1
			1
	max	Nm	
		lbin	0.74
	max	lbin Ibin	0.74 0.74
	max min	lbin	0.74
Max number of wires simultaneously connectable	max min	lbin Ibin	0.74 0.74
Max number of wires simultaneously connectable	max min	lbin Ibin	0.74 0.74
Max number of wires simultaneously connectable Conductor section	max min	lbin Ibin	0.74 0.74



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

#### Operating position

Operating position		_		
		normal		Vertical plan
<u>.</u>		allowable		±30°
Fixing				Screw
Weight			g	2175
Conductor section				
	AWG/kcmil conductor section			0. 500
Our - m-t' - m -		max		2x 500 kcmil
Operations				5000000
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data	Lanca Cara ta EN/IOO 40400 4			
Performance level B100	d according to EN/ISO 13489-1			700000
		rated load	cycles	700000
Mr	IEO/EN 000474 4 4	mechanical load	cycles	5000000
Mirror contats according	) to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	(COLI- COLI-			
Rated AC voltage at 50/	0UTZ, 0UTZ	•	17	200
		min	V	380
AC aparation		max	V	415
AC operating voltage	-f-50/0011			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/116	00
		min	%Us	80
	drop out	max	%Us	110
	drop-out	min	0/116	20
		min	%Us %Us	20 60
	of EO/COLLT and powered at COLLT	max	7005	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		min	%Us	110
	drop out	max	7008	110
	drop-out	min	%Us	20
		min	%Us %Us	60
	of 60Hz coil powered at 60Hz	max	/0US	00
	pick-up			
	ριοκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	IIIAX	/003	110
	αιορ-οαι	min	%Us	20
		max	%Us	60
AC average coil consum	antion at 20°C	IIIAX	/003	
•	of 50/60Hz coil powered at 50Hz			
	or object iz con powered at our iz	in-rush	VA	400
		holding	VA VA	18
	of 50/60Hz coil powered at 60Hz	Holding	v./\	10
	or 30/001 12 con powered at our 12	in-rush	VA	400
		holding	VA	18
Dissipation at holding ≤2	20°C 50H-7	Holding	W	18
Dissipation at noiding ≤₂ DC coil operating	20 O 30HZ		VV	10

DC rated control voltage

11B500400380





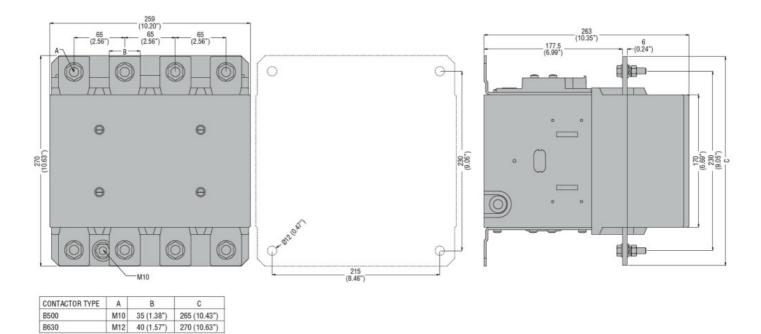
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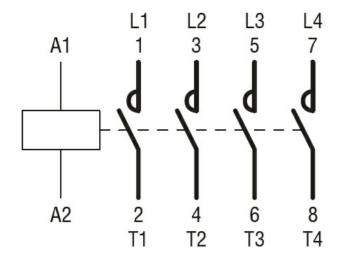
			min	V	380
			max	V	415
DC operating voltage					
, ,	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			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			0.0
			min	ms	60
III. to obnical data			max	ms	100
UL technical data General USE					
General USE	Contactor				
	Contactor		AC current	Α	700
Short circuit protection	tuco 600\/		AC current	A	700
Short-circuit protection	Standard fault				
	Glariuaiù fauit		Short circuit current	kA	18
			Fuse rating	KA A	1200
			Fuse class	$\wedge$	L
Ambient conditions			1 USC 010SS		
Temperature					
· Simporataro	Operating temperature				
	Sporading temperature		min	°C	-50
			max	°C	70
	Storage temperature		Пах		· •
	2.2.2.33 101111010101010		min	°C	-60
			max	°C	80
Max altitude			max	m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

**ENERGY AND AUTOMATION** 

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#### 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