

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 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			-
-1	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-1 (T≤40°C)	710 4 (4001)		
rated operational power 7.6 T (T=40 G)	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	090 V	K V V	733
ILC max current le in DCT with L/N 3 mis with 1 poles in series	75V	۸	650
	110V	A	320
	220V	A	320
		A	
	330V	A	
IFO	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	75\/	۸	050
	75V	A	650
	110V	A	550
	220V	A	450
	330V	A	
150	460V	A	
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	Α	600
	220V	Α	600
	330V	Α	600
	460V	Α	450



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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



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Operating position

Operating position	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	2175
Operations			
Mechanical life		cycles	5000000
Electrical life		cycles	700000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	5000000
Mirror contats according to IEC/EN 609474-4-1			Yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	380
	max	V	415
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
, pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz		,,,,,	
pick-up			
p.s «p	min	%Us	80
	max	%Us	110
drop-out		,,,,,	
a.op out	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz		,,,,,	
pick-up			
pion up	min	%Us	80
	max	%Us	110
drop-out	παλ	/0 0 3	. 10
αιορ-ουι	min	%Us	20
	max	%Us	60
C average coil consumption at 20°C	Παλ	/UU3	30
·			
of 50/60Hz coil powered at 50Hz	in-rush	VA	400
		VA VA	400 18
of FO/COLL= asil navigred at COLL=	holding	VA	10
of 50/60Hz coil powered at 60Hz	:	\/^	400
	in-rush	VA	400
N. 1. (1	holding	VA	18
Dissipation at holding ≤20°C 50Hz		W	18
OC coil operating			
OC rated control voltage			
	min	V	380
		V	415



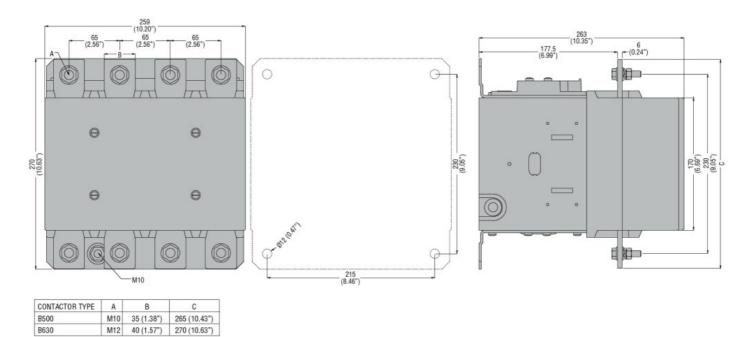


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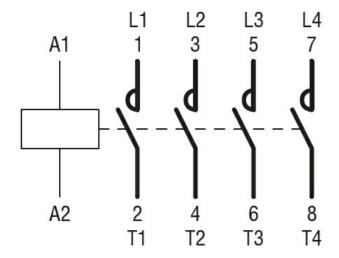
	pick-up				
	ріск-ир		min	%Us	80
			max	%Us	110
	drop-out		Παλ	/003	110
	urop-out		min	%Us	20
				%Us	60
Average coil consumpt	ion <20°C		max	/005	00
Average con consumpt	1011 320 C		in-rush	W	400
				W	18
Max cycles frequency			holding	VV	10
				ovoloo/b	1200
Mechanical operation				cycles/h	1200
Operating times	ntual				
Average time for Us co					
	in AC	Obstant NO			
		Closing NO			440
			min	ms	110
		0	max	ms	180
		Opening NO			00
			min	ms	60
	. 50		max	ms	100
	in DC				
		Closing NO	_		
			min	ms	110
			max	ms	180
		Opening NO	_		
			min	ms	60
			max	ms	100
UL technical data	10 (11)				000
Rated operational volta	ge AC (UL)			V	600
General USE					
	Contactor				
			AC current	A	700
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
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