

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL,



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	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			
3 · · · · · · · · · · · · · · · · · · ·	75V	Α	650
	110V	Α	600
	220V	A	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

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL, 48VAC/DC

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			
20 max carrent to in 200 200 man 2/10 = 10 me man o poloc in conce	75V	Α	550
	110V	A	550
	220V	A	550 550
	330V	A	450
	460V	A	450
EC may autropt to in DC2 DC5 with 1/D < 15mg with 1 nalog in paris	4007	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75 1	Δ.	550
	75V	A	550
	110V	Α	550
	220V	Α	550
	330V	Α	450
	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	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)			
and and part part (and angle and)	Ith	W	68.6
	AC-3	W	35
Fightening torque for terminals	7.0 0	•••	
righterning torque for terminals	min	Nlm	35
	min max	Nm Nm	35 35
	min	lbin Ibin	25.8
Fightening torque for coil terminal	max	lbin	25.8
TOTAL CONTROL OF CONTROL ON TOTAL CONTROL OF THE CO			
ngillerining torque for con terminal		Nm	1
nghtening torque for con terminal	min		4
ngriteriing torque for con terminal	max	Nm	1
nghtering torque for con terminal	max min	lbin	0.74
	max	lbin Ibin	0.74 0.74
Max number of wires simultaneously connectable	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	2155
Conductor section				
	AWG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1		_	
		rated load	cycles	700000
		mechanical load	cycles	5000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	2/6017-		\/	40
Rated AC voltage at 5	J/6UHZ		V	48
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	•			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	arop out	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	·	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
AC average coil consu	motion at 20°C	max	%Us	60
AG average con consu	of 50/60Hz coil powered at 50Hz			
	of 50/00112 coll powered at 50Hz	in-rush	VA	400
		holding	VA VA	18
	of 50/60Hz coil powered at 60Hz	Holding	٧/٦	10
	5. 55/55/12 55/1 poworod at 50/12	in-rush	VA	400
		holding	VA	18
Dissipation at holding	≤20°C 50Hz		W	18
DC coil operating				
DC rated control voltage	ge		V	48
DC operating voltage				
. 5	pick-up			
	•			



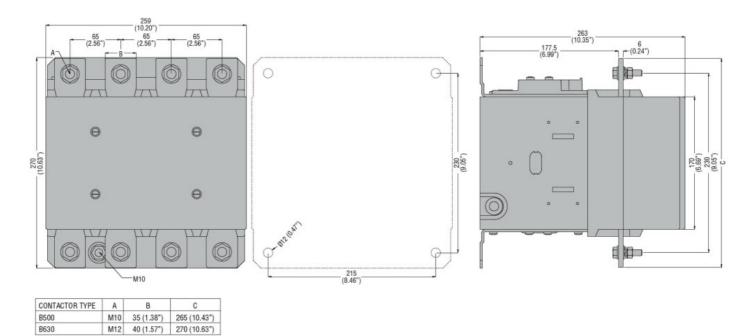


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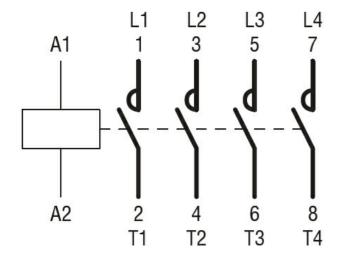
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
	in DC				
		Closing NO	_		440
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
till to all all all lates			max	ms	100
UL technical data					
General USE	•				
	Contactor		• • • • • • • • • • • • • • • • • • • •		700
<u></u>			AC current	Α	700
Short-circuit protection					
	Standard fault		Object of the second		4.0
			Short circuit current	kA	18
			Fuse rating	Α	1200
Analaine Carrotti			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature			0.0	50
			min	°C	-50
	<u> </u>		max	°C	70
	Storage temperature		,	0.0	00
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL,



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