11B500400220

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 700A, AC/DC COIL, 220… 240VAC/DC

Product designation			Power contactor
Product type designation			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		A	700
Operating current			
	Operational current AC1 (≤40°C)	A	700
	Operational current AC3 (≤440V ≤55°C)	A	520
	Operational current AC4 (400V)	A	175
Rated operational power AC1 (T≤40°C)			
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
Rated operational power AC3A (T≤55°C)			
	Rated operational power AC3 (T≤55°C) 230V	kW	156
	Rated operational power AC3 (T≤55°C) 400V	kW	290
	Rated operational power AC3 (T≤55°C) 415V	kW	306
	Rated operational power AC3 (T≤55°C) 440V	kW	328
	Rated operational power AC3 (T≤55°C) 500V	kW	367
	Rated operational power AC3 (T≤55°C) 690V	kW	416
	Rated operational power AC3 (T≤55°C) 1000V	kW	312
Short-time allowable current for 10s (IEC/EN60947-1)		A	4050
Protection fuse			
	gG (IEC)	A	800
	aM (IEC)	A	500
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	Breaking capacity 440V	A	6300
	Breaking capacity 500V	A	5600
	Breaking capacity 690V	A	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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max number of wires simultaneously connectable			nr.	2
Conductor section				
	AWG			
		max		2x 500 kcmil
Power terminal protection according to IEC/EN 60529				IP00
Auxiliary contact characteristics				
Operational current AC1 (≤40°C)			A	700
Operating current DC13				
		110V	A	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw
Weight			g	21.42
Operations				
Mechanical life			Cycles	5000000
Electrical life			Cycles	700000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	Cicli	700000
		mechanical load	Cicli	5000000
Mirror contats according to IEC/EN 609474-4-1				yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.6
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.6
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			

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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 voltage					
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
			min	%Us	0.2
			max	%Us	0.60
Average coil consuption ≤20°C					
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operations				Cycles/h	1200
Operating times					
Average time for Us control					
	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			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	A	700
Other features					
Pollution degree					3
Dimensions					

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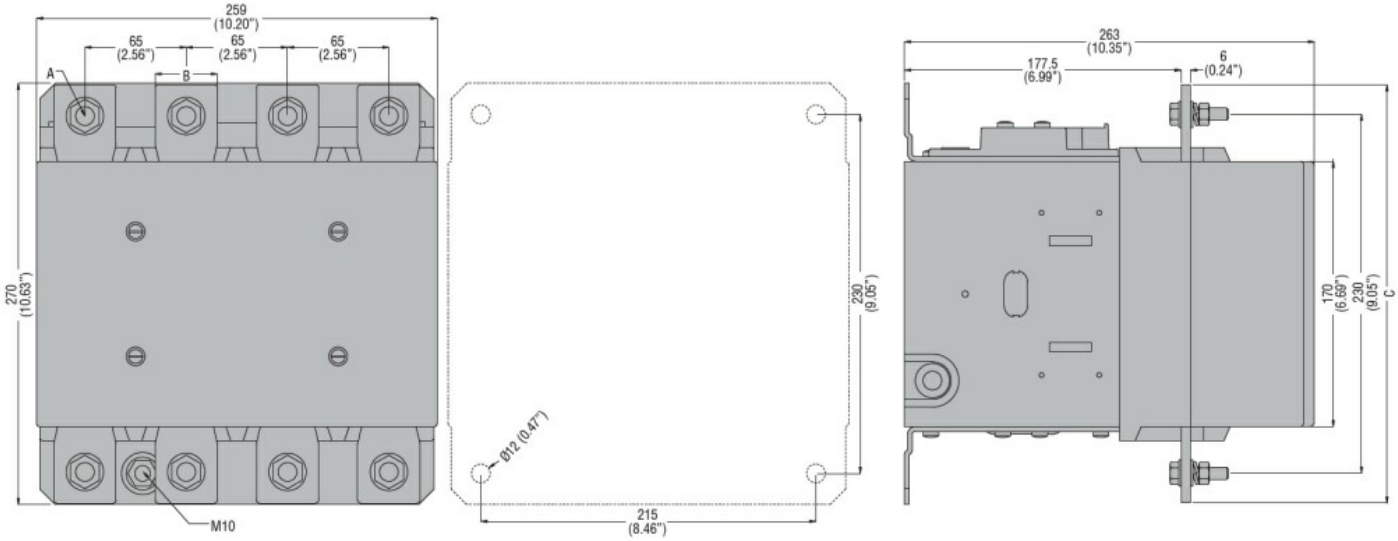
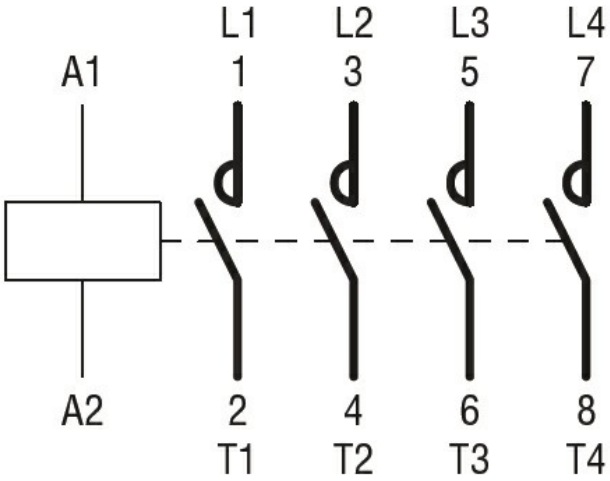


CONTACTOR TYPE	A	B	C
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

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

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