11B500400220



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

Product designation Product type designation			Power contactor B500
Contact characteristics			2000
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		А	700
Operating current			
	Operational current AC1 (≤40°C)	А	700
	Operational current AC3 (≤440V ≤55°C)	А	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/EN	60947-1)	A	4050
Protection fuse		_	
	gG (IEC)	Α	800
	aM (IEC)	A	500
Making capacity (RMS value)		A	6300
Breaking capacity at voltage	_	-	
	Breaking capacity 440V	Α	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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ENERGY AND AUTOMATION

240VAC/DC

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	simultaneously connectable		nr.	2
onductor section				
	AWG	may		2x 500 kcmil
Power terminal protec	tion according to IEC/EN 60529	max		IP00
uxiliary contact chara				IF 00
Operational current A			А	700
Operating current DC				
		110V	А	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
Neight			g	21.42
Operations				
Mechanical life			Cycles	5000000
Electrical life			Cycles Cycles	5000000 700000
Electrical life Safety related data			-	
Electrical life Safety related data	0d according to EN/ISO 13489-1	ested less d	Cycles	700000
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	Cycles	700000 700000
Electrical life Safety related data Performance level B1		rated load mechanical load	Cycles	700000 700000 5000000
Electrical life Safety related data Performance level B1 Mirror contats accordi	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1		Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Airror contats accordi EMC compatibility			Cycles	700000 700000 5000000
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating			Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz		Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1	mechanical load	Cycles Cicli Cicli	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli %Us	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli %Us %Us	700000 700000 5000000 yes yes 0.8 1.1
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli %Us	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min	Cycles Cicli Cicli %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cycles Cicli Cicli %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min	Cycles Cicli Cicli %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B1 Airror contats accordi EMC compatibility	of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding 11B500400220

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240VAC/DC

			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	e				
			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 consuptior	n ≤20°C				
C Pres			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operations				Cycles/h	1200
Operating times				0,000,00	
Average time for Us cor	ntrol				
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO	Παλ	1115	100
		Opening NO	min	~~~	60
			min	ms	
	in DO		max	ms	100
	in DC				
		Closing NO			440
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	700
			710 00110111		
Other features					
Other features Pollution degree Dimensions					3



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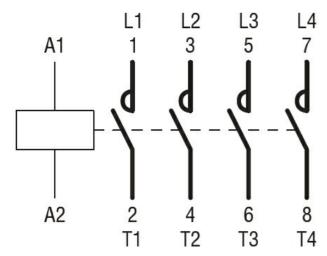
ENERGY AND AUTOMATION

240VAC/DC 259 (10.20") 65 (2.56") 263 (10.35") 65 (2.56") (2.56 177.5 6 (0.24") G Θ θ 230 170 6.69" 230 (9.05" θ θ 01204 Q 215 (8.46") -M10

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

Wiring diagrams

270



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	n

EC000066 - Power contactor, AC switching

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