THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 220... 240VAC/DC



Product designation		Power contactor
Product type designation		B500
Contact characteristics		
Number of poles	nr.	3
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	Α	700
Operating current		
Operational current AC1 (≤40°C)	Α	700
Operational current AC3 (≤440V ≤55°C)	Α	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/EN60947-1)	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		6300
Breaking capacity 500V	Α	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



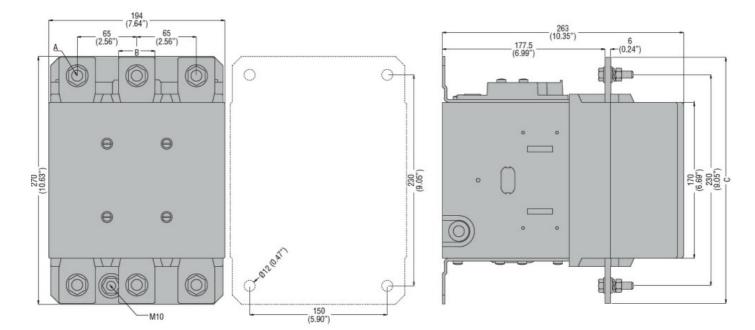
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nax number of wires s	imultaneously connectable		nr.	2
Conductor section	,			
	AWG			
		max		2x 500 kcmil
Power terminal protect	ion according to IEC/EN 60529			IP00
Auxiliary contact charac	cteristics			
Operational current AC			Α	700
Operating current DC1	3			
		110V	Α	Screw
mbient conditions				
emperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
# 169 I		max	°C	80
Max altitude			m	3000
perating position				\/auti==1 =1 = :
		normal		Vertical plan
Acustin a		allowable		±30°
Mounting				Screw
Veight Operations			g	18.08
Mechanical life			Cycles	5000000
Electrical life			Cycles Cycles	700000
Safety related data			Cycles	700000
	od according to EN/ISO 13489-1			
onomianos level Bre	a doctraining to Environ to too t	rated load	Cicli	700000
			Cicli	5000000
		mechanical load	CACII	
/lirror contats accordin	ng to IEC/EN 609474-4-1	mechanical load	Cicii	
	ng to IEC/EN 609474-4-1	mechanical load	Cicii	yes
MC compatibility	ng to IEC/EN 609474-4-1	mechanical load	Cicii	
MC compatibility C coil operating	ng to IEC/EN 609474-4-1	mechanical load	Cicii	yes
MC compatibility C coil operating		mechanical load	Cicii	yes
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz	mechanical load	Cicii	yes
MC compatibility C coil operating		mechanical load	%Us	yes
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz			yes yes
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz	min	%Us	yes yes 0.8
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up	min	%Us %Us %Us	yes yes 0.8 1.1
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	min max	%Us %Us	yes yes 0.8 1.1
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us	yes yes 0.8 1.1
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	%Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max	%Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min	%Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating C operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	%Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating C operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min	%Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6
MC compatibility C coil operating C operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Mirror contats according MC compatibility C coil operating C operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min	%Us %Us %Us %Us %Us	yes yes 0.8 1.1 0.2 0.6

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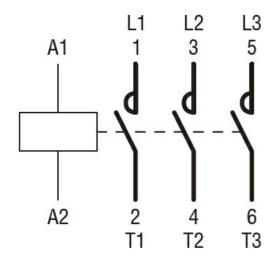
			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltag	je				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
			min	%Us	0.2
			max	%Us	0.60
Average coil consuptio	n ≤20°C				400
			in-rush	W	400
			holding	W	18
Max cycles frequency				0 1 "	1000
Mechanical operations				Cycles/h	1200
Operating times	e (e e l				
Average time for Us co					
	in AC	Obstanto NO			
		Closing NO			440
			min	ms	110
		Opening NO	max	ms	180
		Opening NO	min	m .o	60
			min	ms ms	100
	in DC		max	ms	100
	III DC	Closing NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO	max	1113	100
		Opening 140	min	ms	60
			max	ms	100
UL technical data			·····	0	. 50
General USE					
	Contactor				
	00.114010.		AC current	Α	700
Other features					
Pollution degree					3
Dimensions					

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CONTACTOR TYPE	A	В	С
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