



Product designation Product type designation			Power contactor B500
Contact characteristics			
Number of poles		Nr.	3
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)	А	700
	AC-1 (≤55°C)	А	550
	AC-1 (≤70°C)	A	500
	AC-3 (≤440V ≤55°C)	A	520
	AC-4 (400V)	A	240
Rated operational power AC-3 (T≤55°C)	0001/		
	230V	kW	156
	400V	kW	290
	415V	kW	306
	440V 500V	kW kW	328 367
	690V	kW	416
	1000V	kW	312
Rated operational power AC-1 (T≤40°C)	1000 V		512
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	А	650
	110V	А	320
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	650
	110V	А	550
	220V	А	450
	330V	А	
	460V	Α	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	650
	110V	A	600
	220V	A	600



11B5000048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 48VAC/DC

	0001		
	330V	A	450
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	A	650
	110V	А	600
	220V	А	600
	330V	А	600
	460V	Α	450
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	А	550
	110V	А	320
	220V	А	
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	400 V	Λ	
The max current le in DC3-DC3 with $L/R \le 15$ ms with 2 poles in series	75V	۸	FFO
		A	550
	110V	A	550
	220V	A	450
	330V	Α	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	А	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	75V	А	550
	110V	A	550
	220V	A	550
	330V		450
		A	
	460V	A	450
Short-time allowable current for 10s (IEC/EN60947-1)		А	4050
Protection fuse		_	
	gG (IEC)	A	800
	aM (IEC)	A	500
Making capacity (RMS value)		Α	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	А	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			-
	lth	W	68.6
	AC3	Ŵ	35
Tightening torque for terminals		••	~~
	min	Nm	35
	max	Nm	35
	min	lbin Ibin	25.8
	max	lbin	25.8
Tightening torque for coil terminal	<u>.</u>		
	min	Nm	1
	max	Nm	1



11B5000048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT 18VAC/DC

IE (AC3) = 520A,	AC/DC COIL,
	48VAC/DC

		min	lbin Ibin	0.74
Max number of wires	imultanaaualy aannastabla	max	lbin Nr	0.74
Max number of wires s	simultaneously connectable		Nr.	2
	AWG/Kcmil			
		max		2x 500 kcmil
Power terminal protec	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1798
Conductor section				
	AWG/kcmil conductor section			2x E00 komil
Operations		max		2x 500 kcmil
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data			-, 0.00	
	0d according to EN/ISO 13489-1			
	-	rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage	of 50/001 to optime wared of 501 to			
	of 50/60Hz coil powered at 50Hz pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us	110
	drop-out		,	
	•	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
	• · · · ·	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	of 60Hz coil powered at 60Hz	max	%Us	60
	-			
	pick-up	min	%Us	80
	-	min max	%Us %Us	80 110
	-		%Us %Us	80 110
	pick-up			
	pick-up drop-out	max	%Us	110
AC average coil consu	pick-up drop-out	max	%Us %Us	110 20
AC average coil consu	pick-up drop-out	max min max	%Us %Us %Us	110 20 60
AC average coil consu	pick-up drop-out umption at 20°C	max	%Us %Us	110 20



	of 50/60Hz coil powere				
			in-rush	VA	400
			holding	VA VA	18
Dissipation at holding :	<20°C 50H-		noiuing	W	18
DC coil operating	S20 C 50HZ			vv	10
DC rated control voltage	ge			V	48
DC operating voltage	5				
	pick-up				
			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	ontrol				
	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	Α	700
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature	l.			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3

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11B5000048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 48VAC/DC

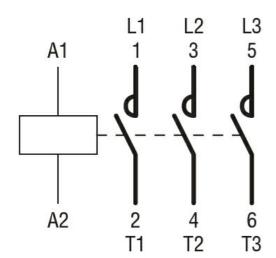
Dimensions [mm (in)] 194 (7.64") 263 (10.35") 65 (2.56") 65 (2.56" 6 --(0.24") 177.5 A 8 O G R 0 θ Θ 270 170 (6.69") 230 (9.05") 230 (9.05") Θ Θ 0 9-0120AT

> 150 (5.90")

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

-M10

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	





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 48VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			B500
Contact characteristics		N La	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			05
	min	Hz	25
IFO Conventional free circle arreat averant lith	max	Hz	400
IEC Conventional free air thermal current Ith		A	700
Operational current le	AC 4 (<40°C)	۸	700
	AC-1 (≤40°C)	A	700
	AC-1 (≤55°C)	A	550
	AC-1 (≤70°C) AC-3 (≤440V ≤55°C)	A	500 520
	AC-3 (2440V 255 C) AC-4 (400V)	A	240
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	A	240
Rated operational power AC-3 (1235 C)	230V	kW	156
	230V 400V	kW	290
	400V 415V	kW	306
	413V 440V	kW	328
	500V	kW	367
	690V	kW	416
	1000V	kW	312
Rated operational power AC-1 (T≤40°C)	10001		012
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	А	650
	110V	А	320
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	А	650
	110V	А	550
	220V	А	450
	330V	А	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600



11B5000060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 60VAC/DC

		_	
	330V	А	450
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600
	330V	А	600
	460V	A	450
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	400 v	Α	400
TEC max current le in DC5-DC5 with L/K ≤ T5ms with T poles in series		^	550
	75V	A	550
	110V	A	320
	220V	А	
	330V	А	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	А	550
	110V	А	550
	220V	A	450
	330V		
		A	
	460V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	Α	550
	110V	Α	550
	220V	А	550
	330V	А	450
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	1001	7.	
IEC max current le in DC3-DC3 with E/IC = 15ms with 4 poles in series	751/	^	550
	75V	A	550
	110V	A	550
	220V	Α	550
	330V	A	450
	460V	Α	450
Short-time allowable current for 10s (IEC/EN60947-1)		А	4050
Protection fuse			
	gG (IEC)	А	800
	aM (IEC)	A	500
Making capacity (RMS value)		A	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	А	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	lth	W	68.6
	AC3	W	35
Tightoning torque for terminole	AUS	VV	55
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
		Nm	1
	max	INIT	I



11B5000060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE 60VAC/DC

E (AC3) = 520/	A, AC/DC COIL,
	60VAC/DC

		min	Ibin	0.74
Mox number of other		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Sonductor section	AWG/Kcmil			
	Awg/Remii	max		2x 500 kcmil
Power terminal protec	tion according to IEC/EN 60529	Пах		IP00
Mechanical features				11 00
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1798
Conductor section				
	AWG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	0d 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
Rated AC voltage at 5	0/60H7		V	60
AC operating voltage	0/00112		v	00
To operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	hier of	min	%Us	80
		max	%Us	110
	drop-out	max	%Us	110
	drop-out	max	%Us %Us	110 20
	drop-out			
	drop-out of 50/60Hz coil powered at 60Hz	min	%Us	20
		min	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz	min	%Us %Us %Us	20 60 80
	of 50/60Hz coil powered at 60Hz pick-up	min max	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max	%Us %Us %Us %Us	20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80 110
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80 110 20
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80 110 20



	of 50/60Hz coil powere				
			in-rush	VA	400
			holding	VA VA	18
Dissipation at holding :	<20°C 50H-		noiding	W	18
DC coil operating	S20 C 301 12			VV	10
DC rated control voltage	A			V	60
DC operating voltage	<u>j</u> c			v	00
De operating voltage	pick-up				
	plon up		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	me	60
				ms	100
UL technical data			max	ms	100
General USE					
	Contactor				
			AC current	А	700
Short-circuit protection	n fuse, 600V				
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	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 & Protection	on				
Pollution degree					3

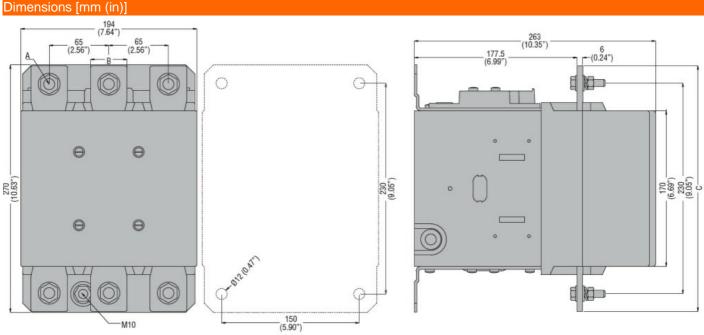
¹¹B5000060

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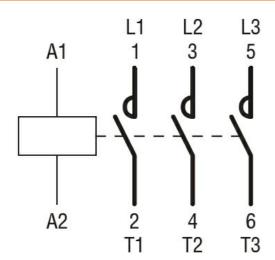
11B5000060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 60VAC/DC

(in)]



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

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	n





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 60VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation Product type designation			Power contactor B500
Contact characteristics			
Number of poles		Nr.	3
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)	А	700
	AC-1 (≤55°C)	А	550
	AC-1 (≤70°C)	А	500
	AC-3 (≤440V ≤55°C)	A	520
	AC-4 (400V)	A	240
Rated operational power AC-3 (T≤55°C)			
	230V	kW	156
	400V	kW	290
	415V	kW	306
	440V	kW	328
	500V	kW	367
	690V	kW	416
Rated operational power AC-1 (T≤40°C)	1000V	kW	312
	230V	kW	252
	230V 400V	kW	438
	400V 500V	kW	575
	690V	kW	755
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	0007		100
	75V	А	650
	110V	A	320
	220V	A	
	330V	A	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	650
	110V	А	550
	220V	А	450
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 110...125VAC/DC

	330V	А	450
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600
	330V	А	600
	460V	А	450
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	550
	110V	А	320
	220V	А	
	330V	А	
	460V	А	
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	550
	110V	А	550
	220V	А	450
	330V	А	
	460V	A	
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	75V	A	550
	110V	A	550
	220V	А	550
	330V	A	450
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	75V	A	550
	110V	A	550
	220V	A	550
	330V	A	450
Short time allowable surrent for 10s (IEC/EN60047.1)	460V	A	450 4050
Short-time allowable current for 10s (IEC/EN60947-1)		A	4050
Protection fuse		۸	900
	gG (IEC) aM (IEC)	A	800 500
Making consoity (PMS value)	aivi (IEC)	<u>A</u>	
Making capacity (RMS value)		A	5000
Breaking capacity at voltage	11011	٨	5000
	440V 500V	A	5000
	500V 690V	A	4500 4000
Resistance per pole (average value)	0907	A mΩ	0.14
Power dissipation per pole (average value)		11122	0.14
rower upsipation per pole (average value)	lth	W	68.6
	AC3	W	68.6 35
Tightening torque for terminals	AUS	vv	30
	min	Nim	35
		Nm Nm	35 35
	max min	Ibin	35 25.8
	max	Ibin	25.8 25.8
Tightening torque for coil terminal	IIIdX		23.0
	min	Nm	1
	min	Nm	1
	max	INITI	1

11B50000110



11B50000110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 110...125VAC/DC

		min	lbin Ibin	0.74
Max number of wires	simultaneously connectable	max	Nr.	0.74
Conductor section			1 11.	£
	AWG/Kcmil			
		max		2x 500 kcmil
	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
<u></u>		allowable		±30°
Fixing				Screw
Weight			g	1806
Conductor section	AMC/kemil conductor conting			
	AWG/kcmil conductor section			OV EOO komil
Operations		max		2x 500 kcmil
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data			0,000	,
	10d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
		moonamoundad		
Mirror contats accord	ling to IEC/EN 609474-4-1	moonamoarioaa		yes
Mirror contats accord EMC compatibility	ling to IEC/EN 609474-4-1	meenameariea		yes yes
	ling to IEC/EN 609474-4-1			-
EMC compatibility		montanicarioad		yes
EMC compatibility AC coil operating		min	V	yes 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz			yes
EMC compatibility AC coil operating	50/60Hz, 60Hz	min	V	yes 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min	V	yes 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	min max	V V	yes 110 125
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min max min	V V W	yes 110 125 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min max	V V	yes 110 125
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min max min max	V V %Us %Us	yes 110 125 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	min max min max min	V V %Us %Us %Us	yes 110 125 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	V V %Us %Us	yes 110 125 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min	V V %Us %Us %Us	yes 110 125 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max min	V V %Us %Us %Us	yes 110 125 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	V V %Us %Us %Us %Us	yes 110 125 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max min	V V %Us %Us %Us %Us	yes 110 125 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz 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	V V %Us %Us %Us %Us	yes 110 125 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz 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 max	V V V %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz 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 min max	V V V %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 20 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz 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 max min max	V V V %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 20 60 80 110 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 80 110 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max min max min max	V V V %Us %Us %Us %Us %Us %Us %Us	yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 20 60 80 110 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8

of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 110...125VAC/DC

in-rush VA 400

11B50000110

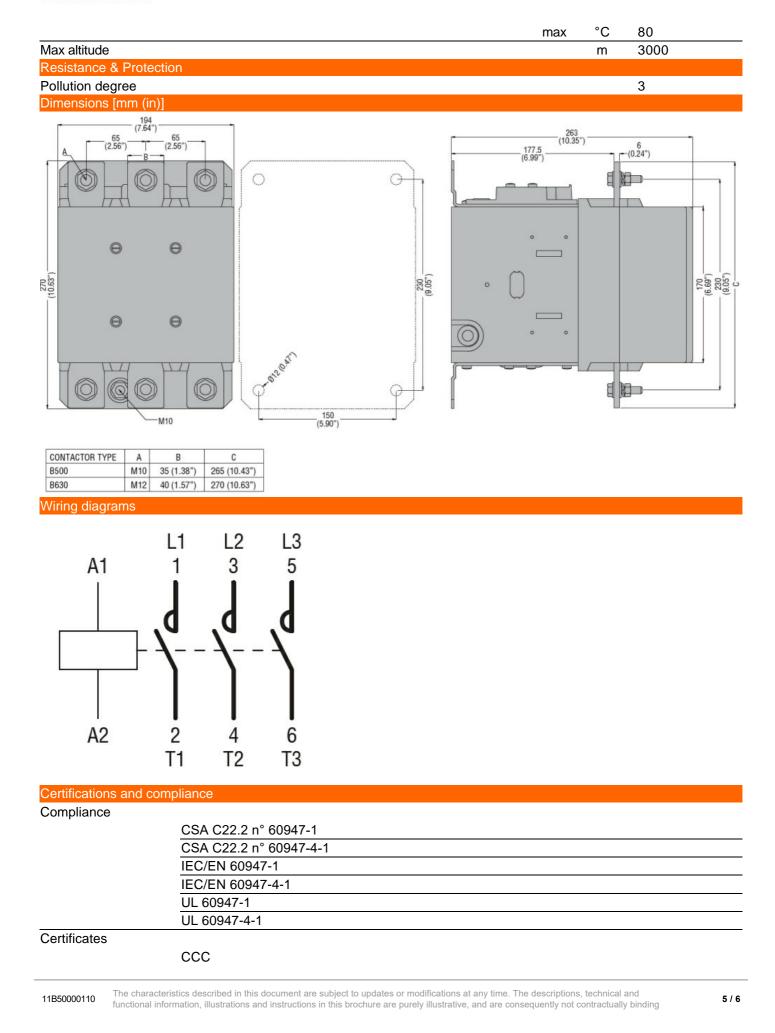
			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ad at 60Hz			
			in much	\ /A	100
			in-rush	VA	400
			holding	VA	18
Dissipation at holding :	≤20°C 50Hz			W	18
DC coil operating					
	20				
DC rated control voltage	Je		_		
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
	pick-up			0/11	
			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 avalas frequeses				vv	
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co	ontrol				
	in AC				
	ITAC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
		oponingito	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
		0	min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	700
Short-circuit protection	fuse 600V				
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
				°C	70
			max	U	10
	Storage temperature				
			min	°C	-60

11B50000110

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



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 110...125VAC/DC





	cULus	
	EAC	
ETIM classification		

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			B500
Contact characteristics			
Number of poles		Nr.	3
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		А	700
Operational current le			
	AC-1 (≤40°C)	А	700
	AC-1 (≤55°C)	А	550
	AC-1 (≤70°C)	А	500
	AC-3 (≤440V ≤55°C)	А	520
	AC-4 (400V)	А	240
Rated operational power AC-3 (T≤55°C)			
	230V	kW	156
	400V	kW	290
	415V	kW	306
	440V	kW	328
	500V	kW	367
	690V	kW	416
	1000V	kW	312
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 $L/R \le 1$ ms with 1 poles in series			
	75V	А	650
	110V	A	320
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	Α	650
	110V	Α	550
	220V	Α	450
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		-	
	75V	A	650
	110V	Α	600
	220V	A	600



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

	330V	А	450
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600
	330V	А	600
	460V	А	450
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	550
	110V	А	320
	220V	А	
	330V	А	
	460V	А	
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	550
	110V	A	550
	220V	A	450
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	400 v	A	
E = 0 max current le in $E = 0.000$ with $E = 10$ ms with 5 poles in series	75V	А	550
	110V	A	550 550
	220V	A	550 550
	330V	A	450
	460V	A	450
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	400 V	A	
The current is in DC3-DC5 with $L/R \le 15$ ins with 4 poles in series	75V	۸	550
	75V 110V	A	550
	220V	A	550
	220V 330V	A A	550 450
	460V		
Short time allowable aureant for 100 (IEC/EN60047.1)	400 V	<u>A</u>	450
Short-time allowable current for 10s (IEC/EN60947-1)		A	4050
Protection fuse			
	gG (IEC)	A	800
	aM (IEC)	<u>A</u>	500
Making capacity (RMS value)		A	5000
Breaking capacity at voltage		-	
	440V	A	5000
	500V	A	4500
	690V	A	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	lth	W	68.6
	AC3	W	35
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



11B50000220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL,

220...240VAC/DC

		min	lbin Ibin	0.74
Max number of wires	simultaneously connectable	max	lbin Nr.	0.74
Conductor section			INI.	۷
	AWG/Kcmil			
		max		2x 500 kcmil
Power terminal protect	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing			~	Screw
Weight Conductor section			g	1808
	AWG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
	ling to IEC/EN 609474-4-1			yes
EMC compatibility	ling to IEC/EN 609474-4-1			yes yes
EMC compatibility AC coil operating				-
EMC compatibility AC coil operating		min	V	yes
EMC compatibility AC coil operating		min max	V V	-
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz			yes 220
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz			yes 220
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz			yes 220
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz		V %Us	yes 220 240 80
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max	V	yes 220 240
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	yes 220 240 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes 220 240 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	yes 220 240 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes 220 240 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us	yes 220 240 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us	yes 220 240 80 110 20 60 80
EMC compatibility	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	V %Us %Us %Us %Us	yes 220 240 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us	yes 220 240 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	V %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min	V %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60 80 80
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60 80 80

of 50/60Hz coil powered at 50Hz



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

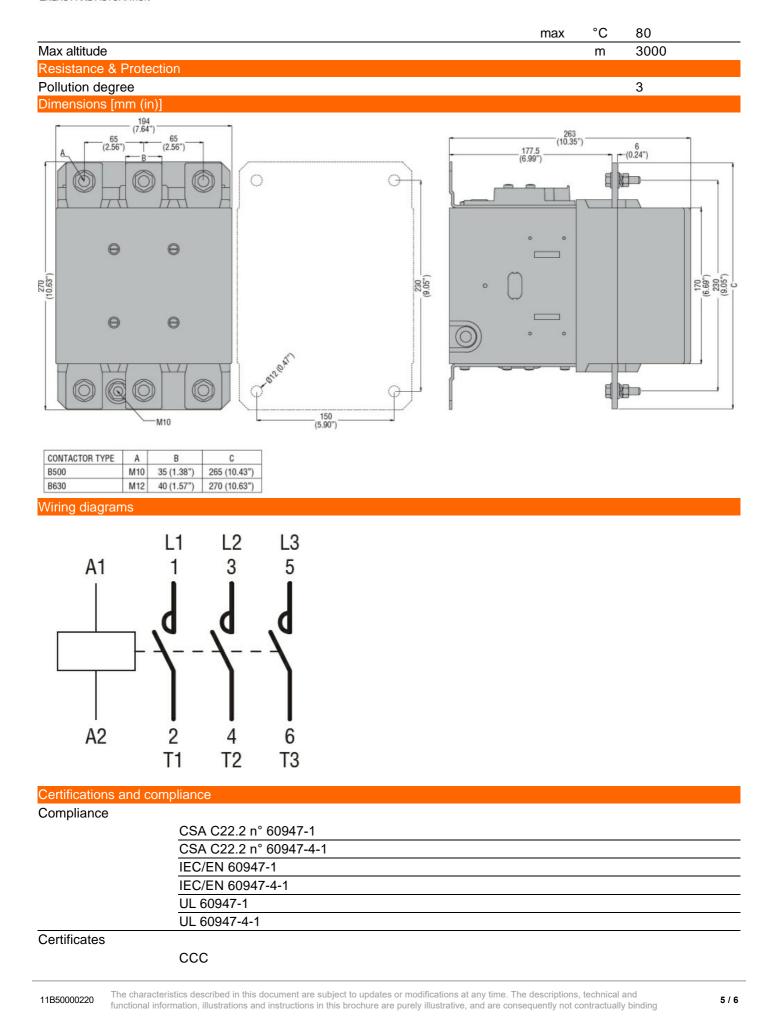
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in-rush VA 400 nolding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 Dissipation at holding ≤20°C 50Hz W 18 DC coil operating DC rated control voltage min V 220 DC operating voltage min V 240 DC operating voltage min %US 80	Dissipation at holding ≤2 DC coil operating DC rated control voltage DC operating voltage	20°C 50Hz pick-up	ed at 60Hz	holding in-rush holding min	VA VA VA W	18 400 18 18 220
holding VA 18 of 50/60Hz coil powered at 60Hz in-rush VA 400 holding 20°C 50Hz W 18 DC coll operating W 220° 700 DC rated control voltage min V 220 max V 240 DC DC operating voltage min %Us 80 max %Us 80 110 drop-out min %Us 80 Average coll consumption ≤20°C max %Us 80 Average coll consumption ≤20°C in-rush W 400 holding W 18 20 Average time for Us control max %Us 80 Max cycles frequency we are sold frequency max ms 180 Mechanical operation cycles/h 1200 max ms 180 Opening NO min ms 180 max ms 180 Opening NO min<	Dissipation at holding ≤2 DC coil operating DC rated control voltage DC operating voltage	20°C 50Hz pick-up	ed at 60Hz	holding in-rush holding min	VA VA VA W	18 400 18 18 220
of 50/60Hz coil powered at 60Hz in-rush holding VA 400 holding Dissipation at holding ≤20°C 50Hz W 18 DC coll operating min V 220 max DC rated control voltage min V 220 max DC operating voltage min %US 80 max drop-out min %US 20 max drop-out min %US 20 max Average coil consumption ≤20°C in-rush holding W 400 holding Max cycles frequency cycles/h 1200 Operating futnes cycles/h 1200 Average time for Us control in AC Closing NO min ms DC closing NO min ms 180 max ms Opening NO min ms 60 max ms 100 UL technical data contactor A 700 max ms 100 UL technical data contactor A 700 Short circuit current KA 18 General	Dissipation at holding ≤2 DC coil operating DC rated control voltage DC operating voltage	20°C 50Hz pick-up	ed at 60Hz	in-rush holding min	VA VA W	400 18 18 220
in-rush holding VA 400 kolding 400 kolding Dissipation at holding ≤20°C 50Hz W 18 DC rated control voltage min V 220 max DC operating voltage min V 220 max pick-up min %US 80 max drop-out min %US 20 max drop-out min %US 60 Average coil consumption ≤20°C in-rush holding W 18 Mechanical operation cycles/n 1200 Opering Itimes v 18 Average time for Us control in AC Closing NO min ms 110 Qpening NO min ms 110 max ms 180 Opening NO min ms 100 max ms 100 Ut etchnical data contactor Closing NO min ms 100 U Closing NO min ms 100 max ms 100 Ut etchnical data	Dissipation at holding ≤2 DC coil operating DC rated control voltage DC operating voltage	20°C 50Hz pick-up		holding	VA W V	18 18 220
holding VA 18 Dissipation at holding ≤20°C 50Hz W 18 DC coli operating min V 220 DC rated control voltage min V 220 DC operating voltage min V 220 DC operating voltage min %US 80 max %US 80 max %US 80 drop-out min %US 20 max %US 60 Average coil consumption ≤20°C in-rush W 400 holding W 400 Max cycles frequency max ms 110 max ms 1200 Operating times cycles/h 1200 min ms 180 Operating NO min ms 100 max ms 180 Operating NO min ms 100 max ms 180 Operating NO min ms 100 max ms 100	DC coil operating DC rated control voltage DC operating voltage	pick-up		holding	VA W V	18 18 220
Dissipation at holding ≤20°C 50Hz W 18 DC coll operating DC rated control voltage pick-up pick-up min %US 80 max %US 110 drop-out min %US 20 max %US 60 Average coil consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency Mechanical operation Closing NO min ms 110 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 110 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 60 max ms 100 UL technical data General USE Contactor Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1200 Fuse class L	DC coil operating DC rated control voltage DC operating voltage	pick-up		min	W V	18 220
DC coll operating min V 220 max V 240 DC operating voltage pick-up min %Us 80	DC coil operating DC rated control voltage DC operating voltage	pick-up			V	220
DC rated control voltage min V 220 max V 240 DC operating voltage pick-up pick-up min %Us 80 max %Us 10 drop-out drop-out min %Us 20 max %Us 60 Average coil consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency Max cycles frequency Closing NO min ms 110 max ms 180 Opening NO min ms 110 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 60 max ms 100 Min ms 60 max ms 100 Min ms 60 max ms 100 Min ms 60 max ms 100 Min max 10 Min ms 100 Min ms 10 Min max 10 Min Min Min Min Min Min Min Min Min Min	DC rated control voltage DC operating voltage	pick-up				
min V 220 (Nax V 240 DC operating voltage pick-up min %Us 80 max %Us 110 drop-out min %Us 60 30 Average coil consumption \$20°C in-rush W 400 Max cycles frequency w 400 Max cycles frequency w 400 Average time for Us control in AC cycles/h 1200 Opening NO min ms 110 Max cycles frequency w 400 100 Average time for Us control in AC Closing NO min ms 110 Max Closing NO min ms 60 max ms 100 Opening NO min ms 60 max ms 100 U technical data max ms 100 max ms 100 U technical data max ms 100 max ms 100 max max	DC operating voltage	pick-up				
max V 240 DC operating voltage pick-up pick-up min %Us 80 drop-out min %Us 20 drop-out min %Us 20 Average coil consumption ≤20°C in-rush W 400 Average coil consumption ≤20°C in-rush W 400 Max cycles frequency W 1200 0 Max cycles frequency cycles/h 1200 0 Operating times cycles/h 1200 0 Average time for Us control in AC cycles/h 1200 Opening NO min ms 110 in DC Closing NO min ms 100 in DC Contactor <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
DC operating voltage pick-up drop-out drop-out min %Us 80 max %Us 110 min %Us 20 max %Us 60 Average coil consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency Mechanical operation 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 UL technical data General USE Contactor Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions				max	V	240
pick-up min %Us 80 drop-out min %Us 80 max %Us 60 Average coil consumption ≤20°C in-rush W 400 Max cycles frequency w 18 Max cycles frequency cycles/h 1200 Operating times cycles/h 1200 Average time for Us control in AC min ms 110 Max Opening NO min ms 110 max ms 100 max ms 180 Opening NO min ms 60 max ms 100 Ut technical data						
min %Us 80 drop-out min %Us 110 drop-out min %Us 20 Average coil consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency cycles/h 1200 Operating times cycles/h 1200 Average time for Us control in AC closing NO min ms 180 Mechanical operation cycles/h 1200 0 <t< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>	-					
max %Us 110 drop-out min %Us 20 max %Us 60 Average coil consumption ≤20°C in-rush W 400 holding W 400 holding W 18 Max cycles frequency W 18 max 700 Operating times Closing NO min ms 110 Average time for Us control in AC Closing NO min ms 100 in DC Closing NO min ms 100 max ms 110 Max Closing NO min ms 60 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 60 max ms 100 Ut technical data max ms 100 max ms 100 Ut technical data max ms 100 max		drop-out			0/11	
drop-out min %Us 20 max %Us 60 Average coil consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency W 18 Max cycles frequency W 100 Operation cycles/h 1200 Operating times W 10 Average time for Us control in AC State Closing NO min ms 110 min< DC		drop-out				
min %Us %Us 20 max Average coil consumption ≤20°C in-rush holding W 400 holding Max cycles frequency w 18 Machanical operation cycles/h 1200 Operating times v 1200 Average time for Us control in AC min ms 110 max Opening NO min ms 180 Opening NO min ms 100 in DC Closing NO min ms 100 in DC Closing NO min ms 110 Max ms 180 0 0 0 UL technical data max ms 100 0		drop-out		max	%Us	110
max %/Us 60 Average coll consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency w 1200 Operating times cycles/h 1200 Average time for Us control in AC min ms 110 Max max ms 180 Opening NO min ms 60 max ms 180 max Opening NO min ms 100 in DC Closing NO min ms 100 Max ms 100 max ms 100 Ut technical data max ms 100 max ms 100 Ut technical data max ms 100 max ms 100 Ut technical data max ms 100 max ms 100 Ut technical data max ms 100 max ms 100 Ston	Average coil consumptic					
Average coil consumption ≤20°C in-rush W 400 holding W 18 Max cycles frequency Mechanical operation 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 180 Opening NO min ms 60 max ms 180 Opening NO Min ms 60 max ms 100 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Anbient conditions	Average coil consumptic					
in-rush W 400 holding W 18 Max cycles frequency Mechanical operation 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 Closing NO min ms 110 max ms 180 Opening NO min ms 110 max ms 180 Opening NO min ms 110 max ms 180 Opening NO min ms 100 UL technical data General USE contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Schort circuit current kA 18 Fuse rating A 1200 Fuse class L	Average coil consumptic			max	%Us	60
holding W 18 Max cycles frequency Mechanical operation 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 180 Opening NO min ms 60 max ms 180 UL technical data General USE Contactor Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1200 EVENDED Charter Fuse rating A 1200		on ≤20°C				
Max cycles frequency Mechanical operation 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 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Anbient conditions						
Mechanical operation cycles/h 1200 Operating times				holding	W	18
Operating times Average time for Us control in AC Closing NO min ms Max ms Opening NO min ms min ms Max ms Closing NO min Max ms General USE Contactor Accurrent A Short-circuit protection fuse, 600V						
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 180 Opening NO UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1200 Fuse class L					cycles/h	1200
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 180 Opening NO UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1200 Fuse class L	Operating times					
Closing NO min ms 10 max ms 180 Opening NO min ms 60 max ms 100 in DC Closing NO min ms 110 max ms 110 max ms 180 Opening NO UL technical data General USE Contactor Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current Fuse rating A 1200 Fuse class L Arbient conditions Temperature	Average time for Us cont	trol				
min ms 110 max ms 180 Min ms 60 max ms 100 in DC Closing NO Min ms 110 max ms 180 Opening NO Min ms 110 max ms 180 Opening NO Min ms 60 max ms 100 UL technical data General USE Contactor Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions	i	in AC				
Maxms180minms60maxms100in DCClosing NOminClosing NOminmsMaxms110maxms180Opening NOminmsUL technical dataminmsGeneral USEminmsContactorAC currentAShort-circuit protection fuse, 600V Standard faultShort circuit current Fuse rating A1200 Fuse classAmbient conditionsL			Closing NO			
Opening NO min ms 60 max ms 100 in DC Closing NO min ms 110 Max ms 110 max ms 180 Opening NO min ms 60 max ms 180 Opening NO min ms 60 max ms 100 UL technical data min ms 60 max ms 100 UL technical data min ms 60 max ms 100 UL technical data min ms 60 max ms 100 UL technical data min ms 60 max ms 100 UL technical data min ms 60 max ms 100 Short-circuit protection fuse, 600V min short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions ms L Min Temperature ms L Min				min	ms	110
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 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions				max	ms	180
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 min ms 60 Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions L L Ambient conditions L			Opening NO			
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 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature				min	ms	60
Closing NO min ms 110 max ms 180 Opening NO min ms 60 max ms 100 UL technical data General USE Contactor Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions				max	ms	100
min ms 110 max ms 180 Opening NO Min ms 60 max ms 100 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions	i	in DC				
Max ms 180 Min ms 60 max ms 100 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature			Closing NO			
Opening NO min ms 60 max ms 100 UL technical data General USE Kontactor Kontactor Short-circuit protection fuse, 600V AC current A 700 Short-circuit protection fuse, 600V Standard fault KA 18 Fuse rating A 1200 Fuse class L Ambient conditions KA 1200 Fuse class L			-	min	ms	110
min ms 60 max ms 100 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions				max	ms	180
min ms 60 max ms 100 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions			Opening NO			
max ms 100 UL technical data General USE Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature			1 0	min	ms	60
UL technical data General USE Contactor <u>AC current</u> <u>A</u> 700 Short-circuit protection fuse, 600V Standard fault Short circuit current <u>KA</u> 18 Fuse rating <u>A</u> 1200 Fuse class <u>L</u> <u>Ambient conditions</u>						
General USE Contactor <u>AC current</u> <u>A</u> 700 Short-circuit protection fuse, 600V Standard fault Short circuit current <u>kA</u> 18 Fuse rating <u>A</u> 1200 Fuse class <u>L</u> <u>Ambient conditions</u>	UL technical data					
Contactor AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating Fuse class A 1200 Ambient conditions L						
AC current A 700 Short-circuit protection fuse, 600V Standard fault Short circuit current KA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature		Contactor				
Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature				AC current	А	700
Standard fault Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature	Short-circuit protection fu	use, 600V			-	
Short circuit current kA 18 Fuse rating A 1200 Fuse class L Ambient conditions Temperature	-					
Fuse rating A 1200 Fuse class L Ambient conditions Temperature	·			Short circuit current	kA	18
Fuse class L Ambient conditions Temperature						
Ambient conditions Temperature				_	-	
Temperature	Ambient conditions					
	-	Operating temperature				
min °C -50	, i i i i i i i i i i i i i i i i i i i			min	°C	-50
max °C 70 Storage temperature	-	Storago tomporatura		max	U	10
	÷					
min °C -60		g			°C	60

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 11B50000220



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





11B50000220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 220...240VAC/DC

CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product type designation B500 Contact characteristics
Number of polesNr.3Rated insulation voltage Ui IEC/ENV1000Rated inpulse withstand voltage UimpkV8Operational frequencyminHz25maxHz400IEC Conventional free air thermal current lthA700Operational current leAC-1 (≤40°C)A700AC-1 (≤55°C)A550AC-1 (≤55°C)AAcc-1 (≤70°C)A500AC-4 (400V)ARated operational power AC-3 (T≤55°C)230VkW156400VkW290415VkW415VkW328500VkW500VkW367690VkW4161000VkW328500V500VkW4161000VkW100VkW575690VkW100VkW575690VkW100VkW575690VkW100VkW320220VA220VA-75VA650110VA320220VA-220V
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 lth A 700 Operational current le AC-1 (≤40°C) A 700 Operational current le AC-1 (≤55°C) A 550 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 367 690V kW 312 367 690V kW 312 367 690V kW 312 367 690V kW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V 416 1000V kW 312 360V kW 575
Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 700 Operational current le AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤57°C) A 500 AC-1 (≤57°C) A 520 AC-3 (≤4400V 555°C) A 520 AC-3 (≤4400V 555°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 367 690V kW 312 312 312 312 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 325 690V kW 416 1000V kW 325 500V kW 575 <tr< td=""></tr<>
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 700 Operational current le A 700 AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 328 500V kW 367 690V kW 316 1000V kW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 312 38 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
max Hz 400 IEC Conventional free air thermal current Ith A 700 Operational current le AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤55°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 367 690V kW 312 312 312 312 312 Rated operational power AC-1 (T≤40°C) 230V kW 438 500V kW 438 500V kW 438 500V kW 438 500V kW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A - 220V A -
IEC Conventional free air thermal current lthA700Operational current leAC-1 (≤40°C)A700AC-1 (≤55°C)A550AC-3 (≤440V ≤55°C)A520AC-4 (400V)A240Rated operational power AC-3 (T≤55°C)230VkW156400VkW290415VkW306440VkW328500VkW4161000VkW312Rated operational power AC-1 (T≤40°C)230VkW230VkW438500VkW438500VkW438500VkW755IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series75VA75VA650110VA320220VA
Operational current le AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 367 690V kW 367 690V kW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 416 1000V kW 438 500V kW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A 220V A
AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) XW 156 400V KW 290 415V KW 306 440V KW 328 500V KW 367 690V KW 312 Rated operational power AC-1 (T≤40°C) 230V KW 230V KW 438 500V KW 438 500V KW 438 500V KW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A ~-
AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) XW 156 400V KW 156 400V KW 290 415V KW 306 440V KW 328 500V KW 367 690V KW 416 1000V KW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 252 400V kW 438 500V kW 438 500V kW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A
AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) XW 156 400V KW 156 400V KW 290 415V KW 306 440V KW 328 500V KW 367 690V KW 416 1000V KW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 252 400V kW 438 500V kW 438 500V kW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A
AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 328 500V kW 367 690V kW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 438 500V kW 575 690V kW 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A
AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240 Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 367 690V kW 367 690V kW 416 1000V kW 312 312 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 252 400V kW 575 690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A
AC-4 (400V) A 240 Rated operational power AC-3 (T<55°C)
Rated operational power AC-3 (T≤55°C) 230V kW 156 400V kW 290 415V kW 306 440V kW 328 500V kW 367 690V kW 416 1000V kW 312 Rated operational power AC-1 (T≤40°C) 230V kW 252 400V kW 438 500V kW 575 690V kW 575 690V 690V 575 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c c c c c c c c } \hline 1000V & kW & 312 \\ \hline Rated operational power AC-1 (T \le 40 ^{\circ}C) & & & & & & & \\ \hline 230V & kW & 252 & & & \\ 400V & kW & 438 & & & \\ 500V & kW & 575 & & \\ \hline 690V & kW & 755 & & \\ \hline IEC max current le in DC1 with L/R \le 1 \text{ms with 1 poles in series} & & & & & \\ \hline IEC max current le in DC1 with L/R \le 1 \text{ms with 1 poles in series} & & & & & \\ \hline 75V & A & 650 & & & \\ 110V & A & 320 & & & \\ 220V & A & & & & & \\ \hline \end{array}$
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 $75V$ A 650 $110V$ A 320 $220V$ A
$\begin{array}{cccc} 230 V & kW & 252 \\ 400 V & kW & 438 \\ 500 V & kW & 575 \\ 690 V & kW & 755 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{cccc} 75 V & A & 650 \\ 110 V & A & 320 \\ 220 V & A & \end{array}$
$ \begin{array}{c cccc} 400 V & kW & 438 \\ 500 V & kW & 575 \\ \hline 690 V & kW & 755 \\ \hline \end{tabular} \\ \hline tabul$
690V kW 755 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 650 110V A 320 220V A
IEC max current le in DC1 with L/R < 1ms with 1 poles in series75VA650110VA320220VA
75V A 650 110V A 320 220V A
110V A 320 220V A
220V A
330V A
460V A
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series
75V A 650
110V A 550
220V A 450
330V A
460V A
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series
75V A 650
110V A 600
220V A 600



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 380...415VAC/DC

	330V	А	450
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600
	330V	А	600
	460V	А	450
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	А	550
	110V	А	320
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	550
	110V	А	550
	220V	А	450
	330V	А	
	460V	А	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	А	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	А	450
Short-time allowable current for 10s (IEC/EN60947-1)		А	4050
Protection fuse			
	gG (IEC)	А	800
	aM (IEC)	А	500
Making capacity (RMS value)		А	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	А	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	68.6
	AC3	W	35
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



11B50000380 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 380...415VAC/DC

		min	lbin Ibin	0.74
Max number of wires	simultanoously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INI.	۷
	AWG/Kcmil			
		max		2x 500 kcmil
Power terminal protect	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1850
Conductor section				
	AWG/kcmil conductor section			
Oporationa		max		2x 500 kcmil
Operations Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data			0,000	100000
	10d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contate accord	ing to IEC/EN 609474-4-1		•	yes
minul contais accord				
				yes
EMC compatibility AC coil operating				
EMC compatibility				
EMC compatibility AC coil operating		min	V	yes 380
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	min max	V V	yes
EMC compatibility AC coil operating	50/60Hz, 60Hz			yes 380
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			yes 380
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	max	V	yes 380 415
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	maxmin	V %Us	yes 380 415 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max	V	yes 380 415
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us	yes 380 415 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us	yes 380 415 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	V %Us %Us %Us %Us	yes 380 415 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	V %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 80 80 80 80 80 80 80 80 8
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 80 80 80 80 80 80 80 80 8

of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 380...415VAC/DC

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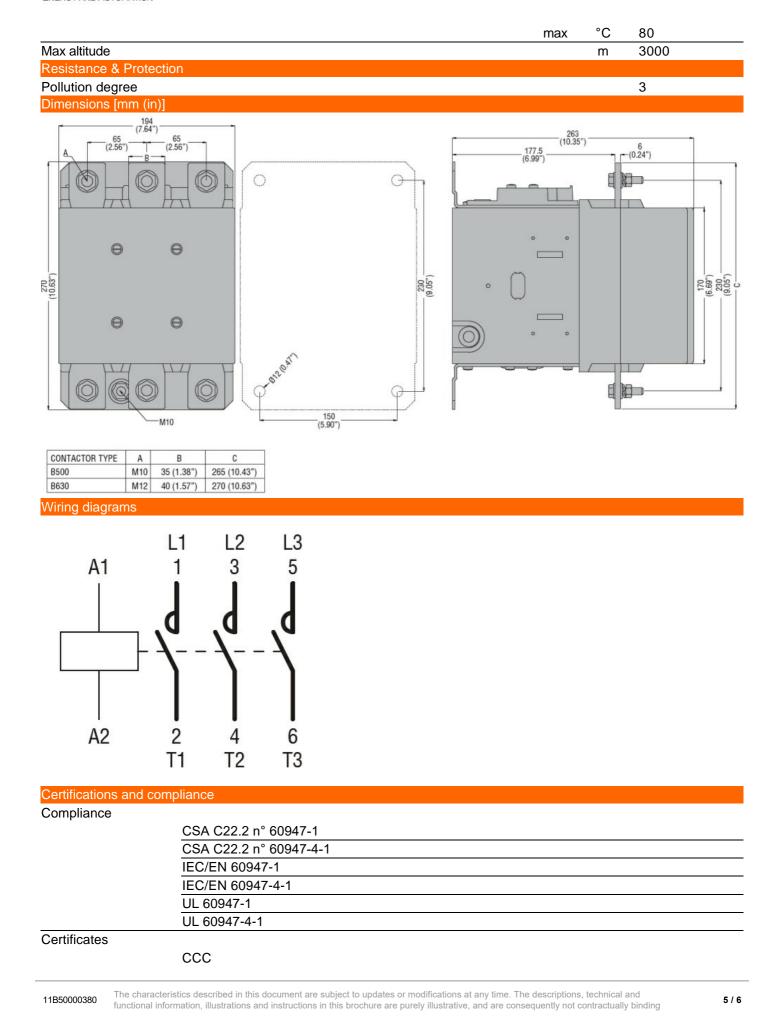
					400
			in-rush holding	VA VA	400 18
	of 50/60Hz coil power	red at 60Hz	noiding	VA	10
			in-rush	VA	400
			holding	VA	18
Dissipation at holding	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	je				
			min	V	380
			max	V	415
DC operating voltage					
	pick-up		min	%Us	80
			min max	%Us %Us	80 110
	drop-out		max	/003	110
			min	%Us	20
			max	%Us	60
Average coil consumpt	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			
			min	ms	110
			max	ms	180
		Opening NO	min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	700
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1200
Ambient conditions			Fuse class		L
Temperature					
isinpolataro	Operating temperatur	e			
	Speciality composition	-	min	°C	-50
			max	°Č	70
	Storage temperature				
	-		min	°C	-60

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 380...415VAC/DC





CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation			Power contactor
Product type designation			B500
Contact characteristics			
Number of poles		Nr.	3
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		A	700
Operational current le			
	AC-1 (≤40°C)	A	700
	AC-1 (≤55°C)	A	550
	AC-1 (≤70°C)	A	500
	AC-3 (≤440V ≤55°C)	A	520
$\mathbf{D}_{\mathbf{r}}$	AC-4 (400V)	A	240
Rated operational power AC-3 (T≤55°C)	2201/		450
	230V 400V	kW	156
	400V 415V	kW	290
	415V 440V	kW kW	306 328
	440V 500V	kW	367
	690V	kW	416
	1000V	kW	312
Rated operational power AC-1 (T≤40°C)	10001		512
	230V	kW	252
	400V	kW	438
	500V	kW	575
	690V	kW	755
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
· · · · · · · · · · · · · · · · · · ·	75V	А	650
	110V	A	320
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	А	650
	110V	А	550
	220V	А	450
	330V	А	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 440...480VAC/DC

	330V	А	450
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
·	75V	А	650
	110V	А	600
	220V	А	600
	330V	А	600
	460V	A	450
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	550
	110V	A	320
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	400 V	Λ	
$EC \text{ max current le in DC3-DC3 with E/C \ge 15 \text{ ms with } 2 \text{ poles in series}$	75V	۸	550
		A	
	110V 220V	A	550 450
		A	450
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	751/		
	75V	A	550
	110V	A	550
	220V	A	550
	330V	A	450
	460V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	75V	A	550
	110V	A	550
	220V	А	550
	330V	А	450
	460V	A	450
Short-time allowable current for 10s (IEC/EN60947-1)		Α	4050
Protection fuse			
	gG (IEC)	А	800
	aM (IEC)	А	500
Making capacity (RMS value)		А	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	А	4000
Resistance per pole (average value)			0.14
		mΩ	0.14
		mΩ	0.14
	Ith		
	lth AC3	W	68.6
Power dissipation per pole (average value)	lth AC3		
Power dissipation per pole (average value)	AC3	W W	68.6 35
Power dissipation per pole (average value)	AC3 min	W W	68.6 35 35
Power dissipation per pole (average value)	AC3 min max	W W Nm Nm	68.6 35 35 35 35
Power dissipation per pole (average value)	AC3 min max min	W W Nm Nm Ibin	68.6 35 35 35 35 25.8
Power dissipation per pole (average value) Tightening torque for terminals	AC3 min max	W W Nm Nm	68.6 35 35 35 35
Power dissipation per pole (average value) Tightening torque for terminals	AC3 min max min max	W W Nm Ibin Ibin	68.6 35 35 35 25.8 25.8
Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	AC3 min max min	W W Nm Nm Ibin	68.6 35 35 35 35 25.8



11B50000440 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 440...480VAC/DC

		min	lbin Ibin	0.74
Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	Simulaneously connectable		INI.	۷
	AWG/Kcmil			
		max		2x 500 kcmil
Power terminal protect	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1834
Conductor section				
	AWG/kcmil conductor section			0 5001 "
Oporationa		max		2x 500 kcmil
Operations Mechanical life			oveloc	5000000
Electrical life			cycles cycles	700000
Safety related data			Cycles	100000
· · ·	10d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
			0,0.00	
Mirror contats accord	ling to IEC/EN 609474-4-1			ves
	ling to IEC/EN 609474-4-1			yes yes
EMC compatibility	ling to IEC/EN 609474-4-1			yes yes
				-
EMC compatibility AC coil operating		min	V	-
EMC compatibility AC coil operating		min max	V V	yes
EMC compatibility AC coil operating	50/60Hz, 60Hz			yes 440
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			yes 440
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz		V	yes 440 415
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	maxmin	V %Us	yes 440 415 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max	V	yes 440 415
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	yes 440 415 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes 440 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	yes 440 415 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes 440 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us	yes 440 415 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us	yes 440 415 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	V %Us %Us %Us %Us	yes 440 415 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min max	V %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110 20 60 80 80 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 440 415 80 110 20 60 80 110 20 60 80 80 80

of 50/60Hz coil powered at 50Hz



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 440...480VAC/DC

11B50000440

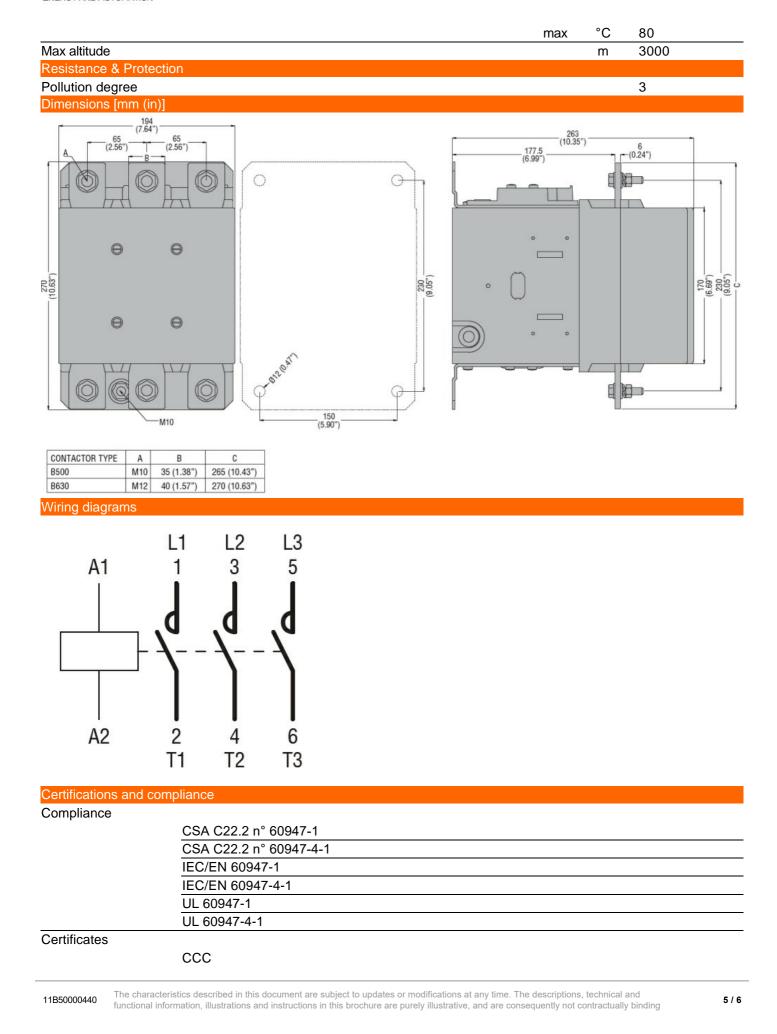
			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powe	and at COUT	noiding	v/ (10
					400
			in-rush	VA	400
			holding	VA	18
Dissipation at holding	j ≤20°C 50Hz			W	18
DC coil operating					
DC rated control volta	ane				
	uge -			V	440
			min	V	440
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	dram aut		Шах	/003	110
	drop-out			0/11	
			min	%Us	20
			max	%Us	60
Average coil consum	ption ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency				vv	
				en vel = - //	1000
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us of	control				
	in AC				
		Closing NO			
		0	min	ms	110
			max	ms	180
			Шал	1115	100
		Opening NO			
			min	ms	60
			max	ms	100
	in DC				
		Closing NO			
		č	min	ms	110
			max	ms	180
		Opening NO	IIIdX	113	100
		Opening NO			00
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	700
Short-circuit protectio	~ 600				,
Short-circuit protectio					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1200
			Fuse class		L
Ambient conditions					
Temperature					
remperature	On one time to the set of				
i emperatore	Operating temperatu	re			
	Operating temperatu	re	min	°C	-50
	Operating temperatu	re	min max	°C °C	-50 70
Temperature					
	Operating temperatu				

11B50000440

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