



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		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)	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 kW	416
Rated operational power AC-1 (T=40°C)	1000V	KVV	312
Rated operational power AC-1 (1-40 C)	230V	kW	252
	230V 400V	kW	438
	400V 500V	kW	575
	690V	kW	755
IEC max current le in DC1 with L/R = 1ms 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 = 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 = 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

11B50000110

	330V	А	450
	460V	Α	
EC max current le in DC1 with L/R = 1ms with 4 poles in series			
	75V	А	650
	110V	А	600
	220V	А	600
	330V	A	600
	460V	A	450
EC max current le in DC3-DC5 with $L/R = 15$ ms with 1 poles in series			
	75V	A	550
	110V	A	320
	220V	A	
	330V	A	
	460V	A	
EC max current le in DC3-DC5 with $L/R = 15$ ms with 2 poles in series			
	75V	А	550
	110V	А	550
	220V	А	450
	330V	А	
	460V	Α	
EC max current le in DC3-DC5 with $L/R = 15$ ms with 3 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	А	
EC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	75V	А	550
	110V	А	550
	220V	А	550
	330V	А	450
	460V	Α	450
Short-time allowable current for 10s (IEC/EN60947-1)		Α	4050
Protection fuse			
	gG (IEC)	А	800
	aM (IEC)	Α	500
Making capacity (RMS value)		А	5000
Breaking capacity at voltage			
	440V	А	5000
	500V	А	4500
	690V	Α	4000
Resistance per pole (average value)		m?	0.14
Power dissipation per pole (average value)			
	lth	W	68.6
	AC3	W	35
Fightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Fightening torque for coil terminal			
	min	Nm	1
	max	Nm	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	Ibin Nr.	0.74
Conductor section			INI.	۷.
	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			
	<b>0</b>	rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats accord	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				yes
EMC compatibility AC coil operating		min	V	yes 110
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 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			yes 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	max	V	yes 110 125
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	maxmin	V %Us	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	max	V	yes 110 125
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 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	max min max min	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	max min max	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	max min max min	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	max min max min	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	max min max min max	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	max min max min max min	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	max min max min max min	V %Us %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	max min max min max min max	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 drop-out of 60Hz coil powered at 60Hz	max min max min max min max min	V %Us %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	max min max min max min max min max	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	max min max min max min max min max min max	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 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	max min max min max min max min max	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	max min max min max min max min max min max	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	max min max min max min max min max min max	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 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8

## of 50/60Hz coil powered at 50Hz

11B50000110



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

11B50000110

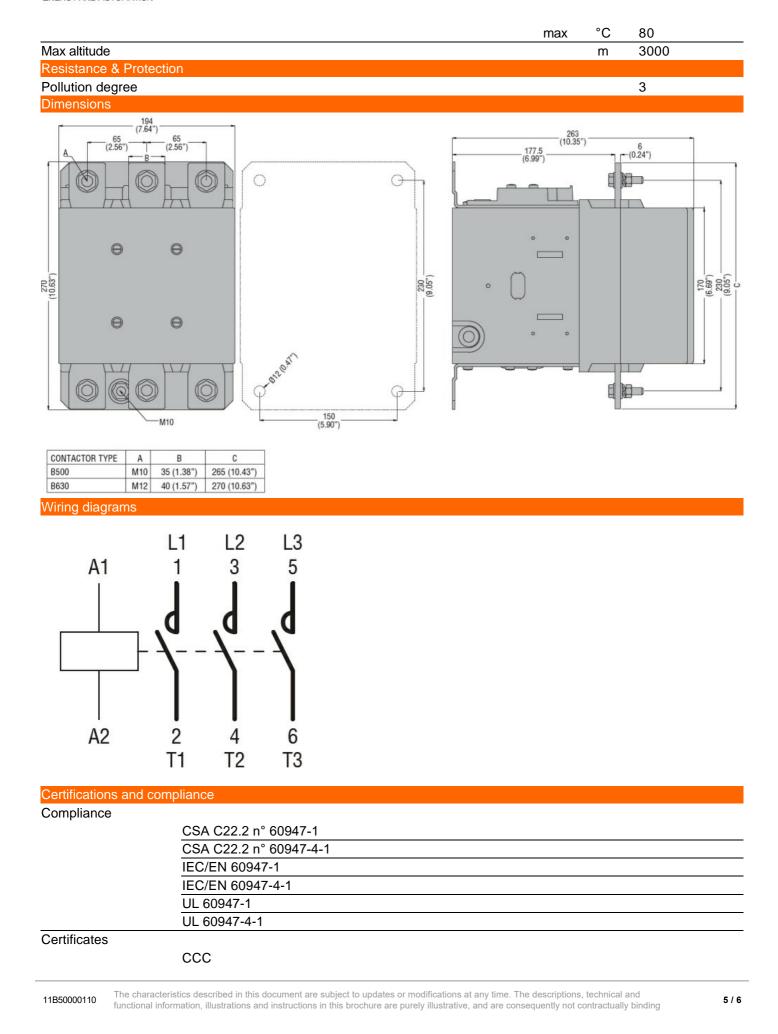
			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ad at 60Hz			
			in much	1/4	400
			in-rush	VA	400
			holding	VA	18
Dissipation at holding :	=20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	ge				
· · · · ·	5		min	V	110
				V	125
			max	V	120
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
				%Us	60
			max	7005	00
Average coil consump	tion =20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times				0,0100/11	1200
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
		oponing ito	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
		Sponing NO	min	me	60
			min	ms	
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	700
Short-circuit protection	fuse 600V				
	Standard fault				
	Stanuaru lault				4.0
			Short circuit current	kA	18
			Fuse rating	А	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature	<b>`</b>			
		•		° <b>^</b>	50
			min	°C °°	-50
			max	°C	70
	Storage temperature				
	Storage temperature		min	°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 11B50000110

11B50000110



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