



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)	Α	700
	AC-1 (≤55°C)	Α	550
	AC-1 (≤70°C)	Α	500
	AC-3 (≤440V ≤55°C)	Α	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
	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 ≤ 1ms with 1 poles in series			
	75V	Α	650
	110V	Α	320
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	650
	110V	Α	550
	220V	Α	450
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	650
	110V	Α	600
	220V	Α	600



	330V	Α	450
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	650
	110V	Α	600
	220V	Α	600
	330V	Α	600
	460V	Α	450
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	75V	Α	550
	110V	Α	320
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	100 V	- , ,	
The max current to in 600-600 with ETC = 10m3 with 2 poics in school	75V	Α	550
	110V	A	550
	220V	A	450
	330V	A	
IFO are a compart to in DO2 DO5 with 1/D < 45 are with 2 and a imposition	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75)		
	75V	Α	550
	110V	Α	550
	220V	Α	550
	330V	Α	450
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	550
	110V	Α	550
	220V	Α	550
	330V	Α	450
	460V	Α	450
Short-time allowable current for 10s (IEC/EN60947-1)		Α	4050
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	Α	500
Making capacity (RMS value)	, ,	Α	5000
Breaking capacity at voltage			
g cap accept of	440V	Α	5000
	500V	Α	4500
	690V	Α	4000
Resistance per pole (average value)	3001	mΩ	0.14
Power dissipation per pole (average value)		11132	<u> </u>
i ovioi dissipation poi poio (average value)	Ith	W	68.6
	AC-3	W	35
Tightoning torque for terminals	AU-3	٧٧	JJ
Tightening torque for terminals	!	Nime	25
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
<del></del>	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 500 kcmil
	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1808
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
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				
LIVIC Compatibility				yes
AC coil operating				yes
	50/60Hz, 60Hz			yes
AC coil operating	50/60Hz, 60Hz	min	V	yes 220
AC coil operating	50/60Hz, 60Hz	min max	V V	
AC coil operating	50/60Hz, 60Hz			220
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz			220
AC coil operating Rated AC voltage at 5				220
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz			220
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max	V	220 240
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max min	V %Us	220 240 80
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min	V %Us	220 240 80
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max	V %Us %Us	220 240 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	220 240 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min	V %Us %Us %Us	220 240 80 110 20
AC coil operating Rated AC voltage at 5	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	220 240 80 110 20
AC coil operating Rated AC voltage at 5	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	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	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	%Us %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	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	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	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 min max	%Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20
AC coil operating Rated AC voltage at 5	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 min max	%Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20
AC coil operating Rated AC voltage at 5	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 min max	%Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20
AC coil operating Rated AC voltage at 5	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	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 60
AC coil operating Rated AC voltage at 5	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	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 60
AC coil operating Rated AC voltage at 5	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	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

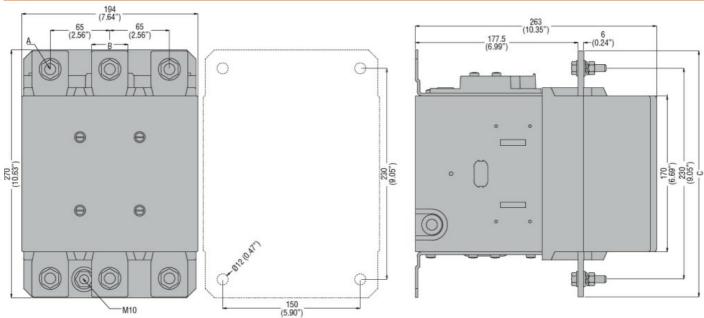


			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	400
			holding	VA	18
Dissipation at holding :	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	ge				
			min	V	220
			max	V	240
DC operating voltage					
3 3 3 3 3	pick-up				
	F		min	%Us	80
			max	%Us	110
	drop-out			7000	
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C		mux	,,,,,	_ <del>- •</del>
, wordyo oon oonsump			in-rush	W	400
			holding	W	18
Max cycles frequency			noiding	V V	10
Mechanical operation				cycles/h	1200
Operating times				Cycles/11	1200
-	ntrol				
Average time for Us co					
	in AC	Ola aira a NO			
		Closing NO			440
			min	ms	110
		0	max	ms	180
		Opening NO			00
			min	ms	60
			max	ms	100
	in DC	0			
		Closing NO			440
			min	ms	110
			max	ms	180
		Opening NO	_		00
			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	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature	<b>;</b>			
			min	°C	-50
			max	°C	70
	Storage temperature				
	- ·		min	°C	-60

**ENERGY AND AUTOMATION** 

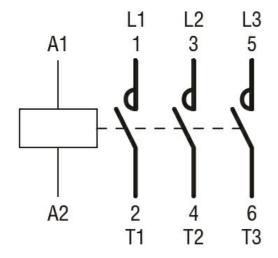
### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, 220...240VAC/DC

	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



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



#### 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