



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)	Α	700
	AC-1 (≤55°C)	Α	550
	AC-1 (≤70°C)	Α	500
	AC-3 (≤440V ≤55°C)	Α	520
	AC-4 (400V)	Α	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



	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 suitent 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	Ibin	0.74
Max number of wires s	imultaneously connectable	THOX	Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 500 kcmil
Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1850
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	Od 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
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	380
		max	V	415
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	•	0/11-	00
		min	%Us	20
	. ( 50/0011	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	*	0/11-	9.0
		min	%Us	80
			0/11~	110
	dran aut	max	%Us	
	drop-out			
	drop-out	min	%Us	20
	of 60Hz coil powered at 60Hz	min	%Us	20
		min max	%Us %Us	20 60
	of 60Hz coil powered at 60Hz	min max min	%Us %Us %Us	20 60 80
	of 60Hz coil powered at 60Hz pick-up	min max	%Us %Us	20 60
	of 60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	20 60 80 110
	of 60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
AC average coil consu	of 60Hz coil powered at 60Hz pick-up drop-out	min max min max	%Us %Us %Us %Us	20 60 80 110
AC average coil consu	of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
AC average coil consu	of 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
AC average coil consu	of 60Hz coil powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20



			مام رس من	1/4	400
			in-rush holding	VA VA	400 18
Dissipation at holding ≤	≤20°C 50Hz		noiding	W	18
DC coil operating					. 0
DC rated control voltage	је				
			min	V	380
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
	dram and		max	%Us	110
	drop-out		min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C		Пах	7000	
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC	01 : 110			
		Closing NO			440
			min	ms ms	110 180
		Opening NO	max	ms	160
		Opening 140	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
UL technical data			max	ms	100
Rated operational volta	age AC (III.)			V	600
General USE	190 / 10 (UL)			v	
	Contactor				
			AC current	Α	700
Short-circuit protection	fuse, 600V				
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1200
A male i and a second it is			Fuse class		L
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature		min	°C	-50
			max	°C	70
	Storage temperature		max		· •
			min	°C	-60
			max	°C	80
Max altitude				m	3000
·					

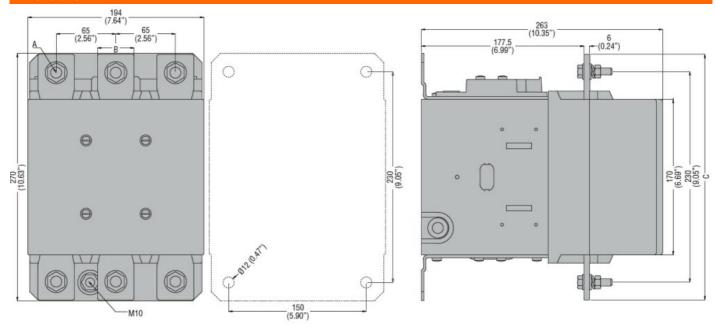
**ENERGY AND AUTOMATION** 

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

### Resistance & Protection

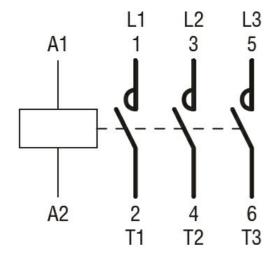
Pollution degree 3

### **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

cULus

EAC





ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching