THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 520A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH 110...125VAC

**ENERGY AND AUTOMATION** 



Product designation Product type designation			Power contactor B500
Contact characteristics			2000
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
Sporational modulonoy	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	700
Operational current le		- , ,	7 0 0
Operational current to	AC-1 (≤40°C)	Α	700
	AC-1 (≤55°C)	A	550
	,		
	AC-1 (≤70°C)	A	500
	AC-3 (≤440V ≤55°C)	A	520
D. I. I. I. A.O.O. (T. 15500.)	AC-4 (400V)	Α	240
Rated operational power AC-3 (T≤55°C)			
	400V	kW	290
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			
120 max carrent le in 201 mai 2/11 me mai 2 poise in conce	75V	Α	650
	110V	Α	550
	220V	A	450
	330V	_	430
	460V	A	<b></b>
IFC may augreent to in DC1 with L/D < 1 may with 2 nates in parise	400 V	Α	_ <del>-</del>
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	75)/	Δ.	050
	75V	A	650
	110V	Α	600
	220V	Α	600
	330V	Α	450
	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	650
	110V	Α	600
	220V	Α	600

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**ENERGY AND AUTOMATION** 

110...125VAC

	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			
	75V	Α	550
	110V	Α	550
	220V	Α	450
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
· ·	75V	Α	550
	110V	Α	550
	220V	Α	550
	330V	Α	450
	460V	Α	
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	A	450
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A	4050
Protection fuse			+000
Trottodion ruso	gG (IEC)	Α	800
	aM (IEC)	A	500
Making capacity (RMS value)	aivi (IEO)	A	5000
Breaking capacity at voltage			0000
breaking capacity at voltage	440V	Α	5000
	500V	A	4500
	690V	A	4000
Resistance per pole (average value)	030 V	mΩ	0.14
Power dissipation per pole (average value)		11122	0.14
Power dissipation per pole (average value)	Ith	۱۸/	60.6
	Ith AC-3	W	68.6
Tightoning tour of fautomainale	AC-3	VV	35
Tightening torque for terminals		N I.a.:	25
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
This was a few all for the	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 simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			

2x 500 kcmil

max



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**ENERGY AND AUTOMATION** 

110...125VAC

	ion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1830
Conductor section				
	AWG/kcmil conductor section			
		max		2x 500 kcmil
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
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility	-			yes
AC coil operating				yee
Rated AC voltage at 50	0/60Hz. 60Hz			
ratou / to voltago at ot	3,001 12, 001 12	min	V	110
		max	V	125
AC operating voltage		max	v	120
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		min		
	drap out	max	%Us	110
	drop-out		0/116	20
		min	%Us	20
	(50/0011 11 1 1 0011	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			
	of 50/60Hz coil powered at 60Hz	in-rush	VA	400
	of 50/60Hz coil powered at 60Hz	in-rush holding	VA VA	400 18

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**ENERGY AND AUTOMATION** 

110...125VAC

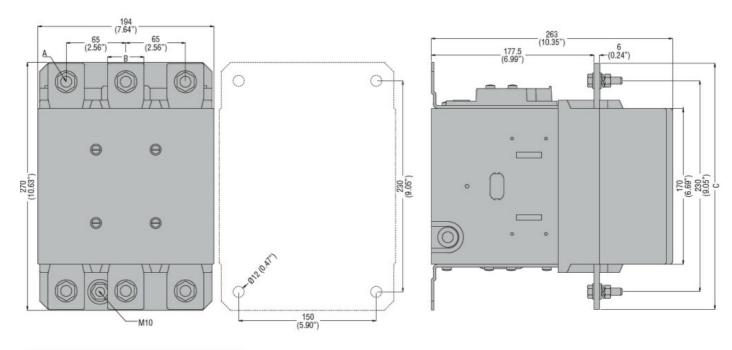
DC coil operating					
DC rated control voltag	e				
			min	V	110
			max	V	125
DC operating voltage					
- c cp craiming raining c	pick-up				
	F		min	%Us	80
			max	%Us	110
	drop-out				
	5. 5p 5 5.		min	%Us	20
			max	%Us	60
Average coil consumpt	ion ≤20°C		<u></u>		
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times				-, 2.20/11	
Average time for Us co	ntrol				
	in AC				
		Closing NO			
		5.55ig 1.10	min	ms	110
			max	ms	180
		Opening NO	max	5	. • •
		oponing No	min	ms	60
			max	ms	100
	in DC		тах	1110	100
	III DO	Closing NO			
		Clooming 110	min	ms	110
			max	ms	180
		Opening NO	тах	1110	100
		oponing No	min	ms	60
			max	ms	100
UL technical data			THOS.	1110	100
General USE					
	Contactor				
			AC current	Α	700
Short-circuit protection	fuse. 600V				
and an oak protootion	Standard fault				
			Short circuit current	kA	18
			Fuse rating	A	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
	1		min	°C	-50
			max	°C	70
	Storage temperature			<del>-</del>	-
	- 121 1.01 10 1.1p 01 01 01 01		min	°C	-60
			max	°C	80
Max altitude			max	 m	3000
Resistance & Protectio	n				
Pollution degree					3
Dimensions					
- Interiorio					



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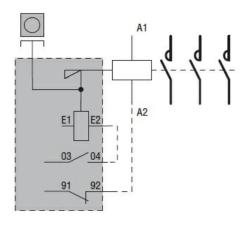
ENERGY AND AUTOMATION

110...125VAC



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

cULus

#### ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching