



Product designation			Power contactor
Product type designation			B500
Contact characteristics		Nr.	4
Number of poles		V	
Rated insulation voltage Ui IEC/EN			1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
1500	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-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			
poiss in our	75V	Α	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			
indication in the introduction with the introduction with a poles in series	75V	۸	650
	110V	A A	600
	220V		
		A	600
	330V	A	450
150	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



EC 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	A	
EC 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	
EC 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	
EC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	75V	Α	550
	110V	Α	550
	220V	A	550
	330V	Α	450
	460V	A	450
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A	4050
Protection fuse			4030
- Tote Citoff Tuse	aC (IEC)	۸	900
	gG (IEC)	A	800
Making consoits (DMC yelse)	aM (IEC)	A	500
Making capacity (RMS value)		Α	5000
Breaking capacity at voltage		_	
	440V	Α	5000
	500V	Α	4500
	690V	Α	4000
Resistance per pole (average value)		m?	0.14
Power dissipation per pole (average value)			
	Ith	W	68.6
	AC3	W	35
Fightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8
ightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable	Παλ	Nr.	2
Conductor section		INI.	
AWG/Kcmil			
AVVG/NCIIII			2x 500 kcmil
			ZX SULLKOMII
Power terminal protection according to IEC/EN 60529	max		IP00



Operating position

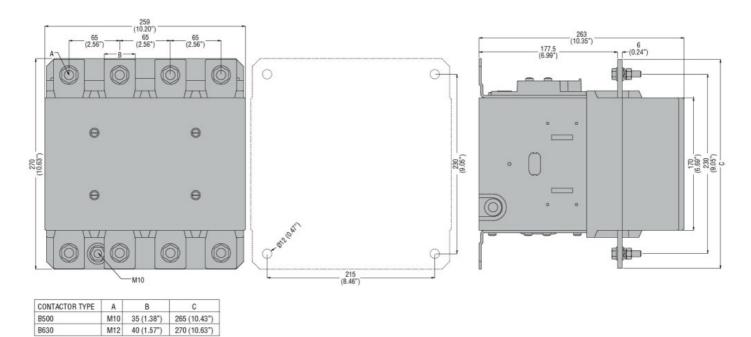
Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	2163
Conductor section				
A	WG/kcmil conductor section			
		max		2x 500 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d a	according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according t	o IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60	OHz, 60Hz			
		min	V	440
		max	V	415
AC operating voltage				
of	f 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	•	0/11-	00
		min	%Us	20
	FEO/GOLIZ anil novvored at GOLIZ	max	%Us	60
OI	f 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us	110
	dron-out	IIIax	/008	110
	drop-out	min	%Us	20
		max	%Us	60
	f 60Hz coil powered at 60Hz	IIIAX	/003	
Oi	pick-up			
	Proit up	min	%Us	80
		max	%Us	110
	drop-out	max		•
	3.5p 33.	min	%Us	20
		max	%Us	60
AC average coil consump	tion at 20°C			
	f 50/60Hz coil powered at 50Hz			
•	•	in-rush	VA	400
		holding	VA	18
Of	f 50/60Hz coil powered at 60Hz	9		
•	•	in-rush	VA	400
		holding	VA	18
Dissipation at holding =20	°C 50Hz		W	18
DC coil operating				

DC rated control voltage

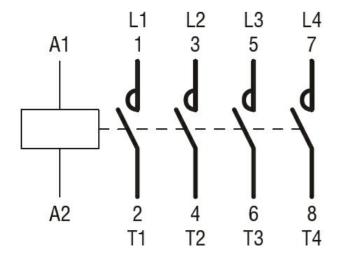




			min	V	440
			max	V	415
DC operating voltage				<u>-</u>	
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
_			max	%Us	60
Average coil consump	tion =20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency				//	1000
Mechanical operation				cycles/h	1200
Operating times	ontrol				
Average time for Us co	in AC				
	шло	Closing NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO			
		3 -	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
III. tacksical data			max	ms	100
UL technical data General USE					
General USE	Contactor				
	Contactor		AC current	Α	700
Short-circuit protection	fuse 600V		710 00110111	- , ,	700
z s odit protocion	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
Manuality 1:			max	°C	80
Max altitude				m	3000
Resistance & Protection	ווע				3
Pollution degree Dimensions					ა



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