

Contact characteristics           Number of poles         Nr. 4           Rated insulation voltage Ui IEC/EN         V 1000           Rated insulation voltage Uimp         kV 8           Operational frequency         min Hz 25 max Hz 400           IEC Conventional free air thermal current lth         A 700           Operational current le         AC-1 (≤40°C) A 550           AC-1 (≤55°C) A 550         A 550           AC-1 (≤70°C) A 500         A 520           AC-3 (≤440V ≤55°C) A 520         A 520           AC-4 (400V) A 240         A 240           Rated operational power AC-1 (T≤40°C)         230V kW 252           400V kW 438         500V kW 575           690V kW 755         690V kW 755           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         75V A 650           110V A 320         220V A - 330V A - 460V A - 340V A 550           110V A 550         A 550           220V A - 330V A - 460V A - 340V A 550         A 650           110V A
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         A         700           Operational current Ie         AC-1 (≤40°C)         A         700           AC-1 (≤55°C)         A         550         AC-1 (≤70°C)         A         500           AC-3 (≤440V ≤55°C)         A         520         AC-4 (400V)         A         240           Rated operational power AC-1 (T≤40°C)         230V         kW         252         400V         kW         438           500V         kW         252         400V         kW         575         690V         kW         755           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         75V         A         650         110V         A         320         220V         A          460V         A          450         330V         A          450         330V         A          460V         A          460V         A          460V
Rated impulse withstand voltage Uimp   Rated impulse Acrossing Value of the properties of the properti
Departional frequency   min   Hz   25 max   Hz   400
IEC Conventional free air thermal current Ith         A         700           Operational current Ie         AC-1 (≤40°C) A 700           AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 240           Rated operational power AC-1 (T≤40°C)         230V kW 252 400V kW 438 500V kW 575 600V kW 575 600V kW 755           IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series         75V A 650 110V A 320 220V A - 330V A - 460V A - 750 110V A 550 220V A - 330V A - 460V A - 320 220V A - 330V A - 460V A - 320 220V A - 330V A - 460V A - 320V A 550 220V A 4 550 330V A - 450 330V A - 450 330V A - 460V A - 330V A - 340V A - 34
EC Conventional free air thermal current Ith
Conventional free air thermal current lth
AC-1 (≤40°C)
AC-1 (≤40°C) A 700 AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 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 A 650 110V A 320 220V A 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 650 110V A 320 220V A 330V A 460V A  110V A 550 220V A 450 330V A 460V A 550 220V A 450 330V A 460V A 460V A 460V A
AC-1 (≤55°C) A 550 AC-1 (≤70°C) A 500 AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 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 A 650 110V A 320 220V A 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 650 110V A 320 220V A 460V A 460V A 550 220V A 450 330V A 460V A 460V A
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AC-3 (≤440V ≤55°C) A 520 AC-4 (400V) A 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 A 650 110V A 320 220V A 460V A 1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 650 110V A 320 220V A 460V A 460V A 460V A 550 220V A 450 330V A 4 460V A 460V A 460V A 460V A
AC-4 (400V)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   75V
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series   75V   A   650   110V   A   550   220V   A   450   330V   A     460V   A
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 650 110V A 550 220V A 450 330V A 460V A
75V A 650 110V A 550 220V A 450 330V A 460V A
110V A 550 220V A 450 330V A 460V A
220V A 450 330V A 460V A
330V A 460V A
460V A
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series
75V A 650
110V A 600
220V A 600
330V A 450
460V A
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series
75V A 650
110V A 600
220V A 600
330V A 600
460V A 450
700V A 700

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	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
•	75V	Α	550
	110V	Α	550
	220V	A	450
	330V	Α	
	460V	A	
EC may current to in DC2 DC5 with L/B < 15mg with 2 nates in carios	400 V		
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75)/	Δ.	550
	75V	A	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	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)	a (120)	A	5000
Breaking capacity at voltage		, ,	
reaking capacity at voltage	440V	Α	5000
	500V	A	4500
		_	
No. 2 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	690V	Α	4000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	68.6
	AC-3	W	35
ightening 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
	111111		1
		Nm	
	max	Nm Ibin	
	max min	lbin	0.74
	max	Ibin Ibin	0.74 0.74
Max number of wires simultaneously connectable	max min	lbin	0.74
Max number of wires simultaneously connectable Conductor section	max min	Ibin Ibin	0.74 0.74
Max number of wires simultaneously connectable	max min max	Ibin Ibin	0.74 0.74 2
Max number of wires simultaneously connectable Conductor section	max min	Ibin Ibin	0.74 0.74



#### Operating position

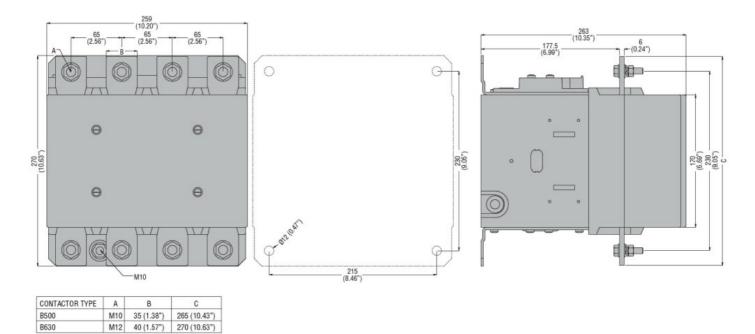
Operating position		_		
		normal		Vertical plan
<del>-</del> • •		allowable		±30°
ixing				Screw
Weight			g	2091
Conductor section				
	AWG/kcmil conductor section			0. 500
Ou - n - ti - n -		max		2x 500 kcmil
Operations			av al a a	5000000
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data	0d according to FN/ISO 12490 1			
Performance level B II	0d according to EN/ISO 13489-1	لممما لمملمة	avalaa.	700000
		rated load	cycles	700000
Mirror contato cocardi		mechanical load	cycles	5000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility  AC coil operating				yes
Rated AC voltage at 5	0/60Hz 60Hz			
Nated AC Voltage at 5	0/001 12, 001 12	min	V	110
		max	V	125
AC operating voltage		IIIax	V	123
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out	παλ	7003	110
	arop out	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	p.s sp	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	•		_	
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	400
				4.0
Dissipation at holding		holding	VA W	18 18

DC rated control voltage

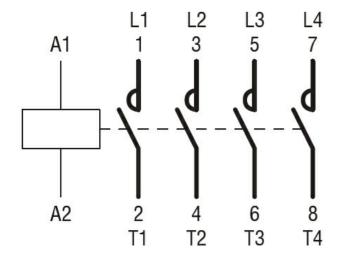




			min	V	110
_			max	V	125
DC operating voltage					
	pick-up			0/11	0.0
			min	%Us	80
	drop-out		max	%Us	110
	drop-out		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co					
	in AC	o No			
		Closing NO	*.	, ~	110
			min	ms	110
		Opening NO	max	ms	180
		Opening NO	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
		-	min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
III. ta abuda al data			max	ms	100
UL technical data General USE					
General USE	Contactor				
	Contactor		AC current	Α	700
Short-circuit protection	tuse, 600V		7.0 ourient		700
2 S S Protostion	Standard fault				
	•		Short circuit current	kA	18
			Fuse rating	Α	1200
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
	Otomone to many and a		max	°C	70
	Storage temperature		م:'مين	°C	60
			min	°C	-60 80
Max altitude			max	m	3000
Resistance & Protection	on			111	3000
Pollution degree	<del>,</del>				3
Dimensions					



#### 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