



Product designation			Power contactor
Product type designation Contact characteristics			B630
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ΚV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	800
Operational current le		- / \	000
Operational outlient to	AC-1 (≤40°C)	Α	800
	AC-1 (≤55°C)	Α	640
	AC-1 (≤70°C)	Α	540
	AC-3 (≤440V ≤55°C)	Α	630
	AC-4 (400V)	Α	260
Rated operational power AC-3 (T≤55°C)	(,		
	230V	kW	198
	400V	kW	355
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
	1000V	kW	368
Rated operational power AC-1 (T≤40°C)			
	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800



	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
•	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
120 max current to in 200-200 with E/N = 10m3 with 2 poics in series	75V	Α	800
	110V	A	800
	220V	A	700
	330V	A	
IFO was a summer to be DO2 DO5 with 1/D < 45 was with 2 walls in a suite	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	751	•	000
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
-	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)	,	Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)	3001	mΩ	0.14
Power dissipation per pole (average value)		.1134	
i onei dissipation per pole (average value)	Ith	W	90
	AC3	W	56
Tightoning targue for terminals	AUS	v v	JU
Tightening torque for terminals	!·-	Nima	EE
	min	Nm Nm	55 55
	max	Nm	55
	min	Ibin	40.6
	max	lbin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1





		min	Ibin	0.74
		max	Ibin	0.74
Max number of wires simultaneou	sly connectable		Nr.	2
Conductor section				
AWG/Kcr	mil			
		max		2x 600 kcmil
Power terminal protection accordi	ing to IEC/EN 60529			IP00
Mechanical features				
Operating position		normal		Vertical plan
		normal allowable		Vertical plan ±30°
Fixing		allowable		Screw
Weight			α	1840
Conductor section			g	1040
	nil conductor section			
AWG/Ron	The Conductor Section	max		2x 600 kcmil
Operations		max		_/, 000 KOIIII
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d accordin	ng to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according to IEC/E	N 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz			V	48
AC operating voltage				
of 50/60H	dz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	duan	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60
of 50/60L	dz coil powered at 60Hz	Παλ	7003	00
01 30/001	pick-up			
	pion up	min	%Us	80
				110
		max	%Us	
	drop-out	max	%Us	
	drop-out	max min	%Us %Us	20
	drop-out			
of 60Hz c	drop-out	min	%Us	20
of 60Hz c	•	min	%Us %Us	20 60
of 60Hz c	coil powered at 60Hz	min	%Us %Us %Us	20 60 80
of 60Hz c	coil powered at 60Hz pick-up	min max	%Us %Us	20 60
of 60Hz c	coil powered at 60Hz	min max min max	%Us %Us %Us %Us	20 60 80 110
of 60Hz c	coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
	coil powered at 60Hz pick-up drop-out	min max min max	%Us %Us %Us %Us	20 60 80 110
AC average coil consumption at 2	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 consumption at 2	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 consumption at 2	coil powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20



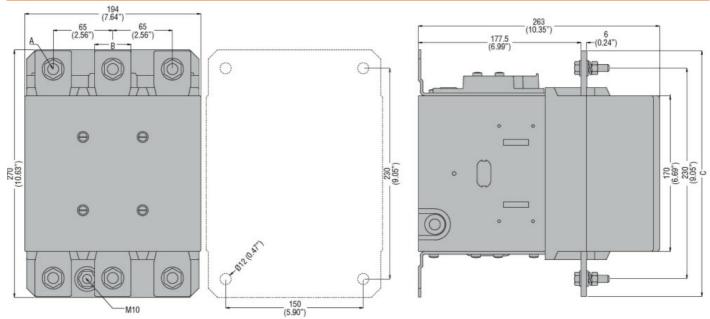
	of 50/60Hz coil powere	d at 60Hz			
	•		in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	:20°C 50H z			W	18
DC coil operating	20 0 30112			VV	10
				\ /	4.0
DC rated control voltag	e			V	48
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	·		min	%Us	20
			max	%Us	60
Average coil consumpt	ion <20°C			7000	
Average con consumpt	1011 =20 C		in much	14/	400
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
		areamig rea	min	ms	110
			max	ms	180
		Opening NO	IIIAX	1113	100
		Opening NO			00
			min	ms	60
			max	ms	100
	in DC				
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data			max	1110	100
General USE					
General USL	Contostor				
	Contactor		10		000
			AC current	Α	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
	Sporating temperature		min	°C	-50
				°C	
	01		max	U	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3
					*



ENERGY AND AUTOMATION

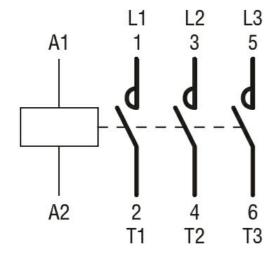
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL,





CONTACTOR TYPE	A	В	C
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



11B6300048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 48VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation		Power contactor
Product type designation		B630
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	800
Operational current le		
AC-1 (≤40°C)	Α	800
AC-1 (≤55°C)	Α	640
AC-1 (≤70°C)	Α	540
AC-3 (≤440V ≤55°C)	Α	630
AC-4 (400V)	Α	260
Rated operational power AC-3 (T≤55°C)		
230V	kW	198
400V	kW	355
415V	kW	368
440V	kW	368
500V	kW	368
690V	kW	440
1000V	kW	368
Rated operational power AC-1 (T≤40°C)		
230V	kW	288
400V	kW	500
500V	kW	655
690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		000
75V	A	800
110V	A	460
220V	A	
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		000
75V	A	800
110V	A	800
220V	A	700
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	۸	000
75V	A	800
110V	A	800
220V	Α	800



	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
· ·	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	1001	- , ,	-
120 max current to in 200 200 mai 210 1 folio mai 2 poloo in conce	75V	Α	800
	110V	A	800
	220V	A	700
	330V	A	700
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
TEC max current le in DC3-DC3 with L/K = 13ms with 3 poles in series	75V	۸	900
	110V	A A	800 800
	220V		
		A	800
	330V	A	650
IFO	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75\/	۸	000
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	650
Object times allowed by surrout for AOS (IFO/FNICOOAT A)	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse	o (1=0)	_	
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	Ibin	0.74
		max	lbin	0.74
Max number of wires simultaneously connecta	ble		Nr.	2
Conductor section				
AWG/Kcmil				
		max		2x 600 kcmil
Power terminal protection according to IEC/EN	N 60529			IP00
Mechanical features				
Operating position		normal		Vertical plan
		allowable		±30°
Fixing		anowabic		Screw
Weight			g	1840
Conductor section				
AWG/kcmil conductor	section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d according to EN/ISO	13489-1			
		rated load	cycles	700000
Mirror contate according to IEC/EN 600474.4	4	mechanical load	cycles	5000000
Mirror contats according to IEC/EN 609474-4- EMC compatibility	1			yes
AC coil operating				yes
Rated AC voltage at 50/60Hz			V	60
AC operating voltage			•	
of 50/60Hz coil power	ed at 50Hz			
·	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
of 50/60Hz coil power				
	pick-up	min	%Us	80
		min max	%Us	110
	drop-out	Παλ	7003	110
	2.56 500	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
AC average call consumption -t 00°C		max	%Us	60
-	od at 50⊔-			
of 50/60Hz coil power	ed at 50Hz	in_ruch	\//	400
AC average coil consumption at 20°C of 50/60Hz coil power	ed at 50Hz	in-rush holding	VA VA	400 18



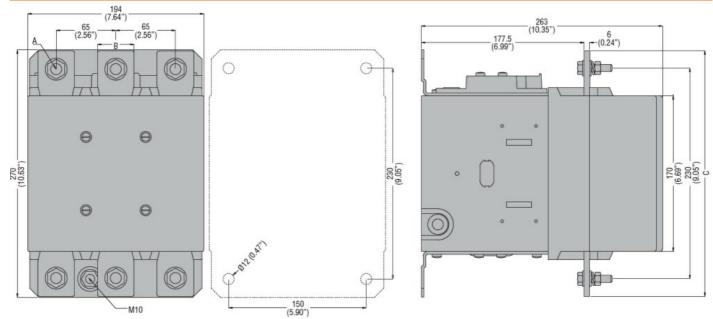
		1			
	of 50/60Hz coil powere	ed at 60Hz			100
			in-rush	VA	400
	.0000 5011		holding	VA	18
Dissipation at holding ≤	20°C 50Hz			W	18
DC coil operating					
DC rated control voltag	e			V	60
DC operating voltage					
	pick-up		_		
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	ion ≤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				
		Closing NO			
			min	ms	110
			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
			max	ms	100
UL technical data					
General USE					
	Contactor			_	
<u> </u>			AC current	A	800
Short-circuit protection					
	Standard fault		01	1.4	4.0
			Short circuit current	kA	18
			Fuse rating	Α	1500
A male in many services 1995			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature			0.0	50
			min	°C	-50
	<u> </u>		max	°C	70
	Storage temperature		-	2.5	00
			min	°C	-60
B.4. 165 1			max	°C	80
Max altitude				m	3000
Resistance & Protection	n				
Pollution degree					3



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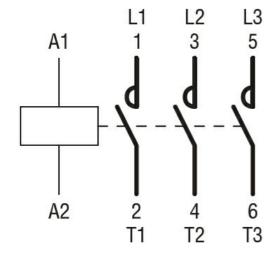
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 60VAC/DC





CONTACTOR TYPE	A	В	C
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



11B6300060

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 60VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation		Power contactor
Product type designation		B630
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	800
Operational current le		
AC-1 (≤40°C)	Α	800
AC-1 (≤55°C)	Α	640
AC-1 (≤70°C)	Α	540
AC-3 (≤440V ≤55°C)	Α	630
AC-4 (400V)	Α	260
Rated operational power AC-3 (T≤55°C)		
230V	kW	198
400V	kW	355
415V	kW	368
440V	kW	368
500V	kW	368
690V	kW	440
1000V	kW	368
Rated operational power AC-1 (T≤40°C)		
230V	kW	288
400V	kW	500
500V	kW	655
690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		000
75V	A	800
110V	A	460
220V	A	
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		000
75V	A	800
110V	A	800
220V	A	700
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	۸	000
75V	A	800
110V	A	800
220V	Α	800



11B63000110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 110...125VAC/DC

	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	A	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	Ibin	0.74
May number of using a	signalita paga salah saga satah la	max	Ibin	0.74
Conductor section	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kcmil			
	AWG/Remii	max		2x 600 kcmil
Power terminal protect	tion according to IEC/EN 60529	max		IP00
Mechanical features	tion decorating to 120, 21, vector			00
Operating position				
1 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1862
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	700000
	150/51100045444	mechanical load	cycles	5000000
-	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
	0/6011- 6011-			
Rated AC voltage at 5	0/60Hz, 60Hz	min	V	110
	0/60Hz, 60Hz	min	V	110
Rated AC voltage at 5	0/60Hz, 60Hz	min max	V V	110 125
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz			
Rated AC voltage at 5		max	V	125
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		V %Us	80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min	V	125
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max min	V %Us	80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max	V %Us %Us	80 110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	80 110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min	V %Us %Us %Us %Us	80 110 20 60
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	%Us %Us %Us %Us %Us	80 110 20 60
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	V %Us %Us %Us %Us	80 110 20 60
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
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 min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20
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	%Us %Us %Us %Us %Us	80 110 20 60 80 110
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	%Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20
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 max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
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	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
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	80 110 20 60 80 110 20 60
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	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
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	80 110 20 60 80 110 20 60

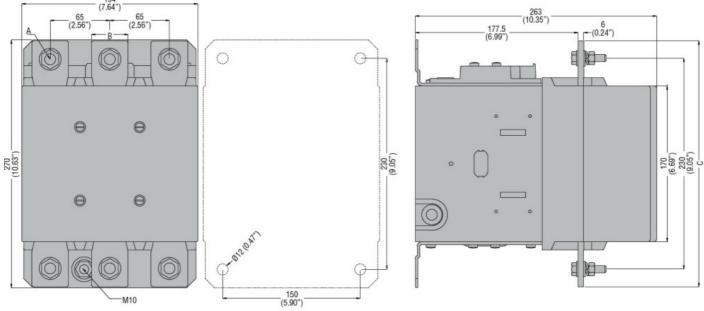
AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



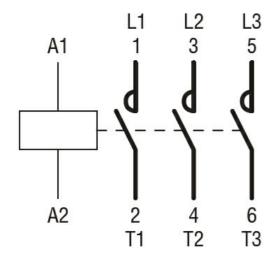
			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	400
			holding	VA	18
Dissipation at holding	<20°C 50∐-7		Holding	W	18
	320 G 30112			VV	10
DC coil operating					
DC rated control voltage	je		_		
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out		max	7000	
	arop-out			%Us	20
			min		
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times				o y 0.00/11	0
Average time for Us co	ontrol				
Average lime for US CC					
	in AC	01 1 110			
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
	in DC				
	2 0	Closing NO			
		Closing IVO	min	ms	110
		On animal NO	max	ms	180
		Opening NO			22
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	Α	800
Short-circuit protection	fuse, 600V				
2 Sirodic protootion	Standard fault				
	Standard fault		Short circuit current	kA	18
			Fuse rating	Α	1500
A cold to the state of			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature)			
	•		min	°C	-50
			max	°C	70
	Storage temperature				-
	Ciorago tomporatare		min	°C	-60
			111111		50





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



11B63000110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 110...125VAC/DC

cULus			
FAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation			Power contactor B630
Product type designation Contact characteristics			D030
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ΚV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdx	A	800
Operational current le			000
Operational current le	AC-1 (≤40°C)	Α	800
	AC-1 (≤55°C)	A	640
	AC-1 (≤33°C) AC-1 (≤70°C)	A	540
	AC-3 (≤440V ≤55°C)	A	630
	AC-4 (400V)	A	260
Rated operational power AC-3 (T≤55°C)	7.O + (+00V)		200
Trated operational power 70-0 (1200 0)	230V	kW	198
	400V	kW	355
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
	1000V	kW	368
Rated operational power AC-1 (T≤40°C)			
(- 10 °C)	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
•	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	75V	Α	800
	110V	Α	800
	220V	Α	800



	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	A	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 600 kcmil
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1836
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
•	0d 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				,
Rated AC voltage at 5	0/60Hz, 60Hz			
J		min	V	220
		max	V	240
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	• •	min	%Us	80
		max	%Us	110
	drop-out			
	•	min	%Us	20
				60
		max	%Us	
	of 50/60Hz coil powered at 60Hz	max	%US	
	of 50/60Hz coil powered at 60Hz	max	%US	
	of 50/60Hz coil powered at 60Hz pick-up			
	•	min	%Us	80
	pick-up			
	•	min max	%Us %Us	80 110
	pick-up	min max min	%Us %Us %Us	80 110 20
	pick-up drop-out	min max	%Us %Us	80 110
	pick-up drop-out of 60Hz coil powered at 60Hz	min max min	%Us %Us %Us	80 110 20
	pick-up drop-out	min max min max	%Us %Us %Us %Us	80 110 20 60
	pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min	%Us %Us %Us %Us	80 110 20 60
	of 60Hz coil powered at 60Hz pick-up	min max min max	%Us %Us %Us %Us	80 110 20 60
	pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us	80 110 20 60

AC average coil consumption at 20°C

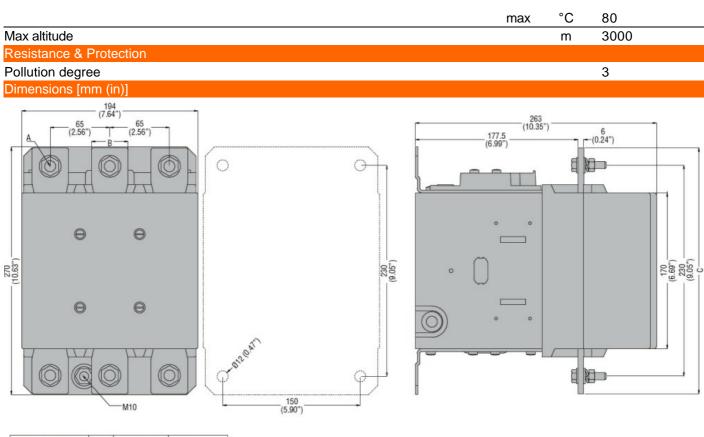
of 50/60Hz coil powered at 50Hz



			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					
20 operaning remage	pick-up				
	ριοιτ αρ		min	%Us	80
			max	%Us	110
	drop-out		ПСХ	7003	110
	arop out		min	%Us	20
			max	%Us	60
Average coil consumpt	tion <20°C		Παλ	/003	
Average con consump	uon ⊇20 U		in-rush	W	400
May avalog frequency			holding	W	18
Max cycles frequency				ovoloo/b	1200
Mechanical operation				cycles/h	1200
Operating times	antino I				
Average time for Us co					
	in AC	Olassia a NO			
		Closing NO			440
			min	ms	110
		0	max	ms	180
		Opening NO			0.0
			min	ms	60
			max	ms	100
	in DC	0			
		Closing NO			
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data					
General USE	0				
	Contactor			_	
			AC current	Α	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60

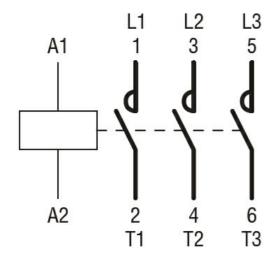
ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 220...240VAC/DC



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



11B63000220

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 220...240VAC/DC

cULus			
FAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation		Power contactor
Product type designation		B630
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	800
Operational current le		
AC-1 (≤40°C)	Α	800
AC-1 (≤55°C)	Α	640
AC-1 (≤70°C)	Α	540
AC-3 (≤440V ≤55°C)	Α	630
AC-4 (400V)	Α	260
Rated operational power AC-3 (T≤55°C)		
230V	kW	198
400V	kW	355
415V	kW	368
440V	kW	368
500V	kW	368
690V	kW	440
1000V	kW	368
Rated operational power AC-1 (T≤40°C)		
230V	kW	288
400V	kW	500
500V	kW	655
690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		000
75V	A	800
110V	A	460
220V	A	
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		000
75V	A	800
110V	A	800
220V	A	700
330V	A	
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	۸	000
75V	A	800
110V	A	800
220V	Α	800



	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	A	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



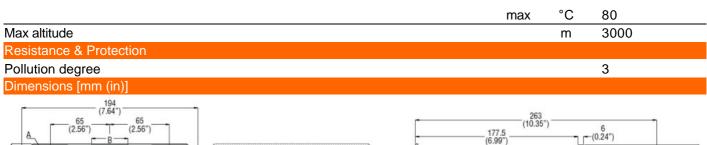
		min	lbin	0.74
		max	Ibin	0.74
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 600 kcmil
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1888
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
	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				
Rated AC voltage at 5	0/60Hz, 60Hz			
J		min	V	380
		max	V	415
AC operating voltage				
. 5 5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	• •	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	•			
	pick-up	min	%Us	80
	•	min max	%Us %Us	80 110
	pick-up	min max	%Us %Us	80 110
	•	max	%Us	110
	pick-up	max min	%Us %Us	110 20
	pick-up drop-out	max	%Us	110
	pick-up drop-out of 60Hz coil powered at 60Hz	max min	%Us %Us	110 20
	pick-up drop-out	max min max	%Us %Us %Us	110 20 60
	pick-up drop-out of 60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
	pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 60
	pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us	110 20 60 80

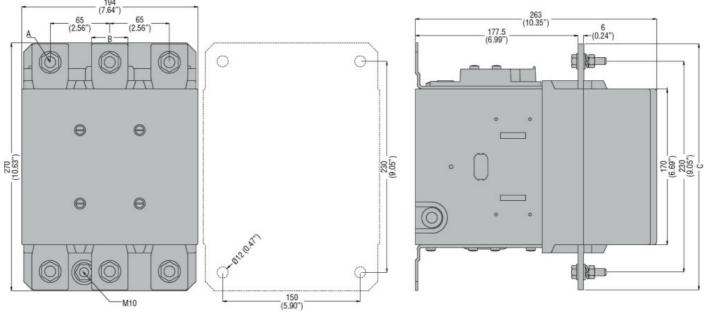
AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



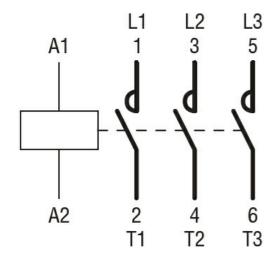
			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	400
			holding	VA	18
Dissipation at holding	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	ge				
			min	V	380
			max	V	415
DC operating voltage					
3 3 3 3 3 3	pick-up				
	F		min	%Us	80
			max	%Us	110
	drop-out			7000	
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C		mux	,,,,,	_ - •
, worage our consump			in-rush	W	400
			holding	W	18
Max cycles frequency			noiding	V V	10
Mechanical operation				cycles/h	1200
				cycles/11	1200
Operating times	ntrol				
Average time for Us co					
	in AC	Ola aira a NO			
		Closing NO			440
			min	ms	110
		0	max	ms	180
		Opening NO			22
			min	ms	60
	. 50		max	ms	100
	in DC	0			
		Closing NO			4.40
			min	ms	110
			max	ms	180
		Opening NO	_		00
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor			_	
			AC current	Α	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature	;			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60





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



11B63000380

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 380...415VAC/DC

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation		Power contactor
Product type designation		B630
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	800
Operational current le		
AC-1 (≤40°C)	Α	800
AC-1 (≤55°C)	Α	640
AC-1 (≤70°C)	Α	540
AC-3 (≤440V ≤55°C)	Α	630
AC-4 (400V)	Α	260
Rated operational power AC-3 (T≤55°C)		
230V	kW	198
400V	kW	355
415V	kW	368
440V	kW	368
500V	kW	368
690V	kW	440
1000V	kW	368
Rated operational power AC-1 (T≤40°C)		
230V	kW	288
400V	kW	500
500V	kW	655
690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		000
75V	A	800
110V	A	460
220V	A	
330V	A	
460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		000
75V	A	800
110V	A	800
220V	A	700
330V	A	
460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	Λ	000
75V	A	800
110V	A	800
220V	Α	800



	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
•	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
120 max current to in 200-200 with E/N = 10m3 with 2 poics in series	75V	Α	800
	110V	A	800
	220V	A	700
	330V	A	
IFO was a summer to be DO2 DO5 with 1/D < 45 was with 2 walls in a suite	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	751	•	222
	75V	A	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
-	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)	,	Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)	3001	mΩ	0.14
Power dissipation per pole (average value)		.1134	
i onei dissipation per pole (average value)	Ith	W	90
	AC3	W	56
Tightoning targue for terminals	AUS	v v	30
Tightening torque for terminals	!·-	Nima	EE
	min	Nm Nm	55 55
	max	Nm	55
	min	Ibin	40.6
	max	lbin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



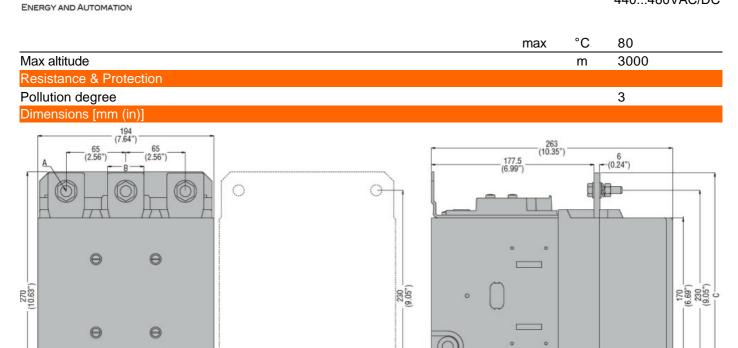
			Unio	0.74
		min	lbin	0.74
Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INI.	
Conductor section	AWG/Kcmil			
	AWG/RCIIII	max		2x 600 kcmil
Power terminal protect	tion according to IEC/EN 60529	Παλ		IP00
Mechanical features	tion decorating to 120/214 00023			11 00
Operating position				
- F		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1840
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 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 according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	440
		max	V	415
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min		
		max	%Us	110
	drop-out		0/11	0.0
		min	%Us	20
	(50/0011 "	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	00
		min	%Us	80
		max	%Us	110
	drop-out		0/11	00
		•	V/ I IC	20
		min	%Us	00
		min max	%Us	60
	of 60Hz coil powered at 60Hz			60
	of 60Hz coil powered at 60Hz pick-up	max	%Us	
		max min	%Us %Us	80
	pick-up	max	%Us	
		max min max	%Us %Us %Us	80 110
	pick-up	max min	%Us %Us	80

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 50∐-7		Holding	W	18
	320 G 30112			VV	10
DC coil operating					
DC rated control voltage	je		_		
			min	V	440
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out		max	7000	
	arop 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	ontrol				
Avorago umo for co oc	in AC				
	III AO	Closing NO			
		Closing NO			440
			min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
	in DC				_
		Closing NO			
		Ü	min	ms	110
			max	ms	180
		Opening NO	max	0	
		Sporting NO	min	me	60
				ms ms	100
III to obnicel dete			max	ms	100
UL technical data					
General USE	_				
	Contactor				
			AC current	Α	800
Short-circuit protection	fuse, 600V				
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	A	1500
			Fuse class		L
Ambient conditions			1 430 01433		<u>-</u>
Temperature	Operation to accomment				
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60

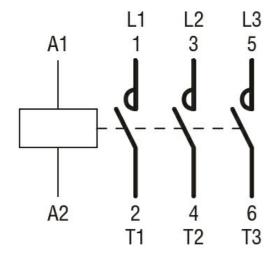


___150 (5.90")

CONTACTOR TYPE	A	В	С
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

M10

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



11B63000440

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 440...480VAC/DC

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching