



Product designation			Power contactor
Product type designation			B630
Contact characteristics		N La	4
Number of poles		Nr. V	4
Rated insulation voltage Ui IEC/EN		kV	1000
Rated impulse withstand voltage Uimp		KV	8
Operational frequency	min	Hz	25
	min	Hz	400
IEC Conventional free air thermal current Ith	max	A	800
Operational current le		~	000
Operational current le	AC-1 (≤40°C)	А	800
	AC-1 (≤55°C)	A	640
	AC-1 (≤70°C)	A	540
	AC-3 (≤440V ≤55°C)	A	630
	AC-4 (400V)	A	260
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 $L/R \le 1$ ms with 1 poles in series			
· · · · ·	75V	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	А	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	800
	110V	А	800
	220V	А	700
	330V	А	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	A	700
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		_	
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	750
	460V	A	700

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EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	А	
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	800
	110V	А	800
	220V	А	700
	330V	А	
	460V	Α	
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	650
	460V	А	
EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	650
	460V	А	700
Short-time allowable current for 10s (IEC/EN60947-1)		А	5040
rotection fuse			
	gG (IEC)	А	1000
	aM (IEC)	А	630
laking capacity (RMS value)		А	6300
reaking capacity at voltage			
	440V	А	6300
	500V	А	5600
	690V	А	5000
Resistance per pole (average value)		mΩ	0.14
ower dissipation per pole (average value)			
	lth	W	90
	AC-3	W	56
ightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
	max	Ibin	40.6
ightening torque for coil terminal			
		Nimo	1
	min		
	min max	Nm Nm	
	max	Nm	1
	max min	Nm Ibin	1 0.74
fax number of wires simultaneously connectable	max	Nm Ibin Ibin	1 0.74 0.74
•	max min	Nm Ibin	1 0.74
Conductor section	max min	Nm Ibin Ibin	1 0.74 0.74
•	max min max	Nm Ibin Ibin	1 0.74 0.74 2
Aax number of wires simultaneously connectable Conductor section AWG/Kcmil Power terminal protection according to IEC/EN 60529	max min	Nm Ibin Ibin	1 0.74 0.74



11B630400440 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 440...480VAC/DC

Operating position

Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw
Weight			g	2203
Conductor section				
ŀ	WG/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
		mechanical load	cycles	5000000
Virror contats according	to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/6	0Hz, 60Hz			
		min	V	440
		max	V	480
AC operating voltage				
C	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	dran out	max	%Us	110
	drop-out	min	0/110	20
		min	%Us %Us	20
-	of 50/60Hz coil powered at 60Hz	max	7005	60
L. L	pick-up			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	Шах	/003	110
		min	%Us	20
		max	%Us	60
_ r	of 60Hz coil powered at 60Hz	Ших	,	
· · · · · ·	pick-up			
	Francab	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consum	otion at 20°C			
•	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	400
		holding	VA	18
 C	of 50/60Hz coil powered at 60Hz	<u>0</u>		
	-	in-rush	VA	400
		holding	VA	18

DC rated control voltage



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 440...480VAC/DC

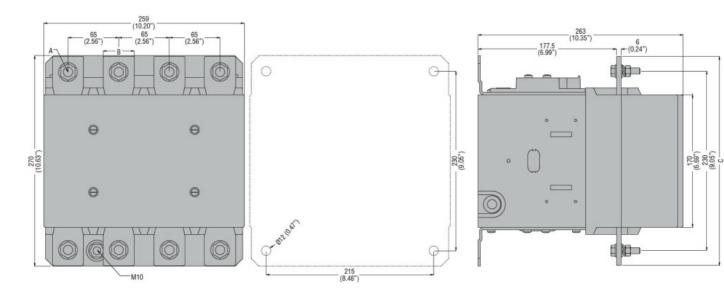
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			min	V	440
			max	V	480
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out			0/11	
			min	%Us	20
A	tian <00%0		max	%Us	60
Average coil consump	$100 \leq 20^{\circ}C$		in much	14/	400
			in-rush	W	400
Max avalas fraguenav			holding	W	18
Max cycles frequency				cycles/h	1200
Mechanical operation Operating times				cycles/fi	1200
Average time for Us co	ontrol				
Average time for US CC	in AC				
	III AC	Closing NO			
			min	ms	110
			max	ms	180
		Opening NO	Παλ	1113	100
		opening No	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
		g	min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	800
Short-circuit protection	n fuse, 600V				
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					



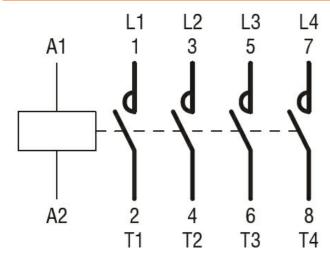
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CONTACTOR TYPE	A	В	С
B500	M10	35 (1.38")	265 (10.43*)
B630	M12	40 (1.57")	270 (10.63*)

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		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching

