

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



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	IIIdA	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)	70 4 (4001)		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



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	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	A	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	100 1	- , ,	
TEO HEAR OUT OF THE DOOR DOO WILLT E/TY = TOTHO WILLT O POICE IT SOLICE	75V	Α	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	
IFC may current to in DC2 DC5 with L/D < 15mg with 4 poles in parise	400 V	^	
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 allowable assumed for 40s (IEO/ENICO047.4)	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		A	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)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC-3	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
		• •	



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		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				
Performance level B10	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 50	0/60Hz, 60Hz			
-		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			
	drop-out	min	%Us	20
	drop-out	min max	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz			
	of 50/60Hz coil powered at 60Hz			
	of 50/60Hz coil powered at 60Hz	max	%Us	60
	of 50/60Hz coil powered at 60Hz pick-up	max	%Us %Us	80
	of 50/60Hz coil powered at 60Hz	max	%Us %Us %Us	80 110
	of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max	%Us %Us %Us	80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

3/6



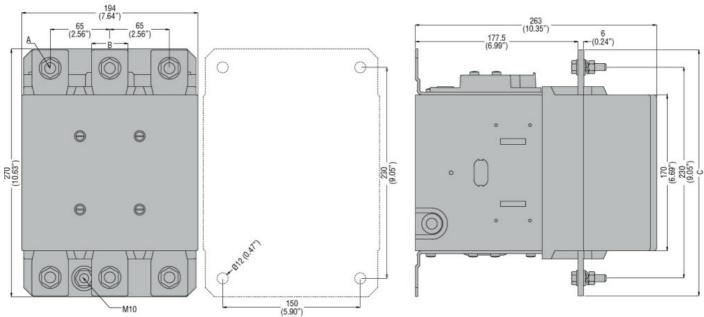
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			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	400
			holding	VA	18
Dissipation at holding	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	ge				
_			min	V	220
			max	V	240
DC operating voltage					
1 0 0	pick-up				
	r r		min	%Us	80
			max	%Us	110
	drop-out		<u></u>		
	-1		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
	.		in-rush	W	400
			holding	W	18
Max cycles frequency			ricianig	.,	10
Mechanical operation				cycles/h	1200
Operating times				0,0100/11	1200
Average time for Us co	ontrol				
Average time for 65 oc	in AC				
	1117.0	Closing NO			
		Closing IVC	min	ms	110
			max	ms	180
		Opening NO	max	1110	100
		Oponing 110	min	ms	60
			max	ms	100
	in DC		тих	1110	100
	50	Closing NO			
		Clocking IVC	min	ms	110
			max	ms	180
		Opening NO	mex		.00
		5 p 5. m ig 1 10	min	ms	60
			max	ms	100
UL technical data			Пах		
General USE					
	Contactor				
	20.11.40101		AC current	Α	800
Short-circuit protection	fuse, 600V		, to ourion		
and and protoction	Standard fault				
	Claridara radit		Short circuit current	kA	18
			Fuse rating	A	1500
			Fuse class	$\boldsymbol{\Lambda}$	L
Ambient conditions			1 430 01433		<u>-</u>
Temperature					
romporature	Operating temperature				
	operating temperature		min	°C	-50
				°C	70
	Storage temperature		max	U	10
	Storage temperature		min	°C	-60
			111111		-00

ENERGY AND AUTOMATION

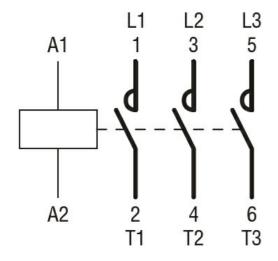
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CONTACTOR TYPE	A	В	С
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

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



11B63000220

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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching