ENERGY AND AUTOMATION

electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 220... 240VAC/DC



Product designation Product type designation			Power contactor B630
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	800
Operating current			_
	Operational current AC1 (≤40°C)	Α	800
	Operational current AC3 (≤440V ≤55°C)	Α	630
	Operational current AC4 (400V)	Α	210
Rated operational power AC1 (T≤40°C)			
	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
Rated operational power AC3 (T≤55°C)			_
	230V	kW	198
	400V	kW	335
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
	1000V	kW	360
Short-time allowable current for 10s (IEC/EN60	947-1)	Α	5040
Protection fuse			
	gG (IEC)	Α	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	Breaking capacity 440V	Α	6300
	Breaking capacity 500V	Α	5600
	Breaking capacity 690V	Α	5000
Resistance per pole (average value)		$m\Omega$	0.14
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	90
	AC3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbft	40.6
	max	lbft	40.6

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			2
multaneously connectable		nr.	2
AVAC			
AVVG			Ov. 000 les "
on occording to IEO/EN 00500	max		2x 600 kcmil
			IP00
		۸	900
		A	800
3	440\/	۸	Caravi
	1100	A	Screw
Operating temperature			
Operating temperature	min	°C	-50
			-50 70
Storage temperature	IIIdX		70
Storage temperature	min	°C	-60
			-60 80
	max		3000
		Ш	3000
	n a was a l		Vortical plan
			Vertical plan ±30°
	allowable		
			Screw
		g	21.94
		0 1	500000
		-	5000000
		Cycles	700000
d according to EN/ISO 13489-1		O: !!	
			700000
	mechanical load	Cicli	5000000
g to IEC/EN 609474-4-1			yes
			yes
(= 0 (= 0)			
•			
pick-up			
ρισκ-αρ		0/11	0.0
ριοκ-αρ	min	%Us	0.8
	min max	%Us %Us	0.8 1.1
drop-out	max	%Us	1.1
	max min	%Us %Us	1.1
drop-out	max	%Us	1.1
drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	1.1
drop-out	max min max	%Us %Us %Us	1.1 0.2 0.6
drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	1.1 0.2 0.6
of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	1.1 0.2 0.6
drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1 0.2 0.6
of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	1.1 0.2 0.6 0.8 1.1
	AWG fon according to IEC/EN 60529 cteristics 1 (≤40°C) 3 Operating temperature Storage temperature d according to EN/ISO 13489-1 g to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	AWG max ion according to IEC/EN 60529 cteristics 1 (≤40°C) 3 110V Operating temperature min max Storage temperature min max normal allowable d according to EN/ISO 13489-1 rated load mechanical load g to IEC/EN 609474-4-1	AWG max fon according to IEC/EN 60529 steristics 1 (≤40°C) A Operating temperature min °C max °C Storage temperature min °C max °C max °C To ma

General USE

Other features Pollution degree

Dimensions

Contactor

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DC rated control voltage DC operating vo						
Dissipation at holding ≤20°C 50Hz				in-rush	VA	400
DC coil operating DC rated control voltage				holding	VA	18
DC rated control voltage DC operating vo	Dissipation at holding :	≤20°C 50Hz			W	18
DC operating voltage pick-up	DC coil operating					
DC operating voltage Pick-up	DC rated control voltage	ge				
Pick-up				min	V	24
Min MUS 0.8 max MUS 1.10	DC operating voltage					
Max Mus 1.10		pick-up				
drop-out min				min	%Us	0.8
Min min max ms 110 max ms				max	%Us	1.10
Min min max ms 110 max ms		drop-out				
Average coil consuption ≤20°C in-rush W 400 holding W 18 Max cycles frequency Mechanical operations Operating times Average time for Us control in AC Closing NO min ms 110 max ms 180 Opening NO in DC Closing NO min ms 60 max ms 100 in DC Closing NO min ms 110 max ms 110 max ms 180 Opening NO		·		min	%Us	0.2
in-rush W 400 holding W 18				max	%Us	0.60
In-rush W 400 holding W 18	Average coil consuption	on ≤20°C				
Max cycles frequency Mechanical operations Cycles/h 1200 Operating times Average time for Us control in AC min ms 110 max ms 180 Opening NO min ms 60 max ms 100 in DC Closing NO Closing NO min ms 110 max ms 180 Opening NO Opening NO				in-rush	W	400
Cycles/h 1200				holding	W	18
Closing NO	Max cycles frequency					
Closing NO	Mechanical operations				Cycles/h	n 1200
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	Operating times					
Closing NO min ms 110 max ms 180	Average time for Us co	ontrol				
min ms 110 max ms 180		in AC				
Opening NO min ms 60 max ms 100			Closing NO			
Opening NO min ms 60 60			-	min	ms	110
min ms 60 max ms 100 in DC Closing NO min ms 110 max ms 180 Opening NO				max	ms	180
			Opening NO			
in DC Closing NO min ms 110 max ms 180 Opening NO				min	ms	60
Closing NO min ms 110 max ms 180 Opening NO				max	ms	100
min ms 110 max ms 180 Opening NO		in DC				
max ms 180 Opening NO			Closing NO			
Opening NO				min	ms	110
· · ·				max	ms	180
min ms 60			Opening NO			
				min	ms	60
max ms 100				max	ms	100
JL technical data	III technical data					

11B630400220	The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and
110030400220	functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

AC current

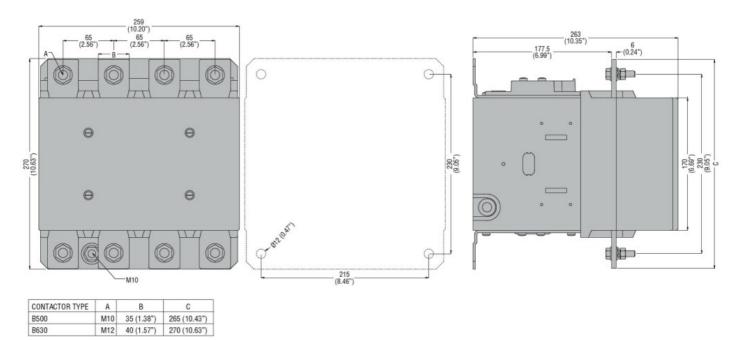
Α

800

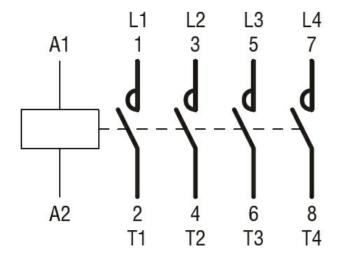
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Wiring diagrams



Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching