ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 110... 125VAC/DC



Product designation		Power contactor
Product type designation		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/EN60947-1)	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)	mΩ	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
min	lbft	40.6

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electric	FOOR-POLE CONTACTOR, IEC OPERATING CORRENT THE (ACT) = 800A, AC/DC	COIL, 110
		125VAC/DC
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max number of wires	simultaneously connectable		nr.	2
onductor section				
	AWG			
		max		2x 600 kcmil
	tion according to IEC/EN 60529			IP00
uxiliary contact chara			•	000
Operational current AC	,		Α	800
Operating current DC1	13	440\/	۸	Caravi
Ambient conditions		110V	Α	Screw
Temperature				
emperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	Пах		7.0
	Ctorage temperature	min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
. 51		normal		Vertical plan
		allowable		±30°
Nounting				Screw
Veight			g	21.88
Operations				
Mechanical life			Cycles	5000000
vicci iai iicai iiic			Cycles	000000
Electrical life			Cycles	700000
Electrical life				
Electrical life Safety related data	0d according to EN/ISO 13489-1			
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load		700000
Electrical life Safety related data Performance level B1		rated load mechanical load	Cycles	700000
Electrical life Safety related data Performance level B1 Mirror contats accordi	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1		Cycles	700000
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility			Cycles	700000 700000 5000000
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating			Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1		Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz		Cycles	700000 700000 5000000 yes
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	ng to IEC/EN 609474-4-1	mechanical load	Cycles Cicli Cicli	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli WUs	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli	700000 700000 5000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load min max	Cycles Cicli Cicli WUs WUs	700000 700000 5000000 yes yes 0.8 1.1
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cycles Cicli Cicli WUs WUs WUs	700000 700000 5000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max	Cycles Cicli Cicli WUs WUs	700000 700000 5000000 yes yes 0.8 1.1
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min	Cycles Cicli Cicli WUs WUs WUs	700000 700000 5000000 yes yes 0.8 1.1 0.2
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life cafety related data Performance level B1 dirror contats according EMC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli *Us *Us *Us *Us *Us *Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Cafety related data Performance level B1 Mirror contats according MC compatibility AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli **Us **Us **Us **Us **Us **Us **Us **	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1 Mirror contats according MC compatibility AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli **Us **Us **Us **Us **Us **Us **Us **	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Electrical life Safety related data Performance level B1	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli **Us **Us **Us **Us **Us **Us **Us **	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6

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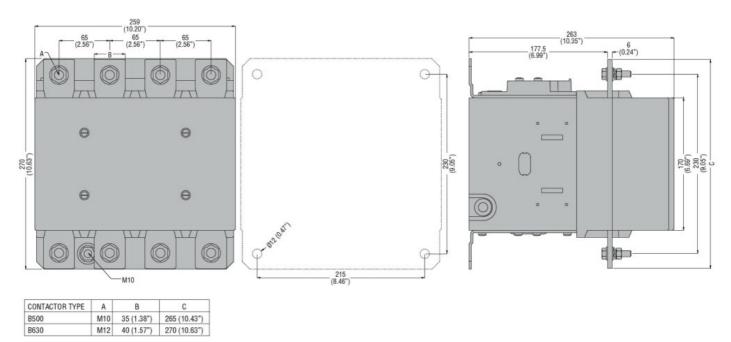
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electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 110... 125VAC/DC

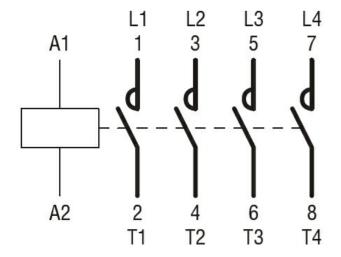
			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltag	je				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
			min	%Us	0.2
			max	%Us	0.60
Average coil consuptio	n ≤20°C			1.5.5	
			in-rush	W	400
			holding	W	18
Max cycles frequency				0 1 "	1000
Mechanical operations				Cycles/h	1200
Operating times					
Average time for Us co					
	in AC	Olaska NO			
		Closing NO			440
			min	ms	110
		Opening NO	max	ms	180
		Opening NO	min	 .	60
			min	ms ms	100
	in DC		max	ms	100
	III DC	Closing NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO	max	1113	100
		Opening 140	min	ms	60
			max	ms	100
UL technical data			· · · · · · · · · · · · · · · · · · ·	0	
General USE					
	Contactor				
			AC current	Α	800
Other features			7.00 000110		
Pollution degree					3
Dimensions					
		<u> </u>			

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 110... 125VAC/DC





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