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



Product designation		Power contactor
Product type designation		B630
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency		
Operational frequency mir		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		630
Operational current AC4 (400V)	Α	210
Rated operational power AC1 (T≤40°C)		
230\		288
400\		500
500\		655
690\	kW	860
Rated operational power AC3 (T≤55°C)		
230\		198
400\		335
415\		368
440\		368
500\		368
690\		440
1000\		360
Short-time allowable current for 10s (IEC/EN60947-1)	A	5040
Protection fuse		
gG (IEC)		1000
aM (IEC)		630
Making capacity (RMS value)	Α	6300
Breaking capacity at voltage		
Breaking capacity 440\		6300
Breaking capacity 500\		5600
Breaking capacity 690\		5000
Resistance per pole (average value)	mΩ	0.14
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith		90
ACS	W	56
Tightening torque for terminals		
mir		55
max .		55
mir		40.6
max	lbft	40.6



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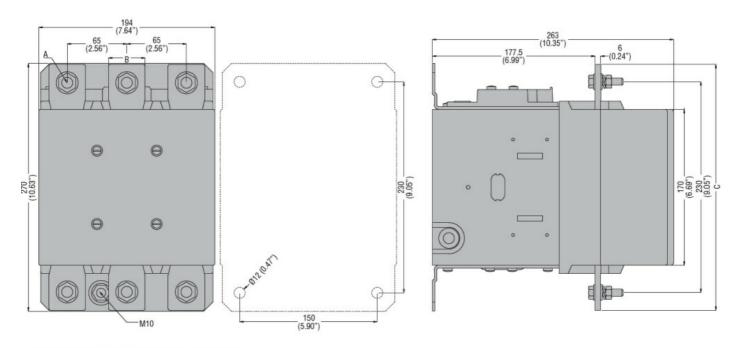
nax number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		max		2x 600 kcmil
Power terminal protec	ction according to IEC/EN 60529			IP00
Auxiliary contact chara	acteristics			
Operational current A	C1 (≤40°C)		Α	800
Operating current DC	13			
		110V	Α	Screw
Ambient conditions				
emperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	-	min	°C	-60
		max	°C	80
/lax altitude			m	3000
perating position				
. 0.		normal		Vertical plan
		allowable		±30°
Mounting		<u> </u>		Screw
Veight			g	18.62
Operations			9	
Mechanical life			Cycles	5000000
Electrical life			Cycles	700000
Safety related data			C 7 0.00	
-	0d according to EN/ISO 13489-1		ey aloc	
-	0d according to EN/ISO 13489-1	rated load		
-	0d according to EN/ISO 13489-1	rated load	Cicli	700000
		rated load mechanical load		700000 5000000
Performance level B1 Mirror contats accordi	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1		Cicli	700000 5000000 yes
Performance level B1 Mirror contats accordi EMC compatibility			Cicli	700000 5000000
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating			Cicli	700000 5000000 yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		Cicli	700000 5000000 yes
Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz		Cicli	700000 5000000 yes
Performance level B1 Mirror contats according EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1	mechanical load	Cicli Cicli	700000 5000000 yes yes
Performance level B1 Mirror contats according the compatibility of coil operating	of 50/60Hz coil powered at 50Hz	mechanical load	Cicli Cicli	700000 5000000 yes yes
Performance level B1 Airror contats according the compatibility of coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cicli Cicli	700000 5000000 yes yes
Performance level B1 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz	mechanical load min max	Cicli Cicli %Us %Us	700000 5000000 yes yes
Performance level B1 Mirror contats according EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cicli Cicli %Us %Us %Us	700000 5000000 yes yes 0.8 1.1
Performance level B1 Airror contats according the compatibility of coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max	Cicli Cicli %Us %Us	700000 5000000 yes yes
Performance level B1 Airror contats according the compatibility of 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	Cicli Cicli %Us %Us %Us	700000 5000000 yes yes 0.8 1.1
Performance level B1 Mirror contats according the compatibility of coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min max	Cicli Cicli %Us %Us %Us %Us	700000 5000000 yes yes 0.8 1.1 0.2 0.6
erformance level B1 Iirror contats accordi MC 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	Cicli Cicli %Us %Us %Us %Us	700000 5000000 yes yes 0.8 1.1 0.2 0.6
Performance level B1 Mirror contats according the compatibility of 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	Cicli Cicli %Us %Us %Us %Us	700000 5000000 yes yes 0.8 1.1 0.2 0.6
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	Cicli Cicli %Us %Us %Us %Us %Us	700000 5000000 yes yes 0.8 1.1 0.2 0.6
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 pick-up	mechanical load min max min max min max min max	Cicli Cicli %Us %Us %Us %Us %Us	700000 50000000 yes yes 0.8 1.1 0.2 0.6
Performance level B1 Mirror contats according to the compatibility of the colloperating to the colloperation of t	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	Cicli Cicli %Us %Us %Us %Us %Us	700000 5000000 yes yes 0.8 1.1 0.2 0.6
Performance level B1	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	Cicli Cicli %Us %Us %Us %Us %Us	700000 50000000 yes yes 0.8 1.1 0.2 0.6
Performance level B1 Mirror contats according to the compatibility of the colloperating to the colloperation of t	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	Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 50000000 yes yes 0.8 1.1 0.2 0.6
Performance level B1 Mirror contats according to the compatibility of the collower at the col	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	Cicli Cicli %Us %Us %Us %Us %Us	700000 50000000 yes yes 0.8 1.1 0.2 0.6



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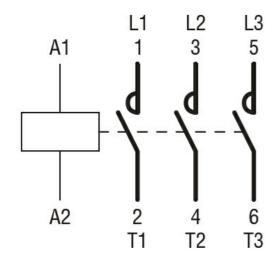
			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	≦20°C 50Hz			W	18
DC coil operating					
DC rated control voltag	je				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
	·		min	%Us	0.2
			max	%Us	0.60
Average coil consuptio	n ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency			Holding	**	10
Mechanical operations				Cycles/h	1200
Operating times				Cycles/11	1200
Average time for Us co	entrol				
Average time for US CO					
	in AC	Clasias NO			
		Closing NO			440
			min	ms	110
		0 1 110	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				
			AC current	Α	800
Other features					
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

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