11B63000220



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 220... 240VAC/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 min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	А	800
Operating current		
Operational current AC1 (≤40°C)	А	800
Operational current AC3 (≤440V ≤55°C)	А	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)	А	5040
Protection fuse		
gG (IEC)	А	1000
aM (IEC)	Α	630
Making capacity (RMS value)	А	6300
Breaking capacity at voltage		
Breaking capacity 440V	А	6300
Breaking capacity 500V	А	5600
Breaking capacity 690V	А	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
max	lbft	40.6



electric

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max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		max		2x 600 kcmil
	tion according to IEC/EN 60529			IP00
Auxiliary contact chara				
Operational current A			А	800
Operating current DC1	13			
		110V	А	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
NA		allowable		±30°
Mounting				Screw
A			g	18.36
			3	
Weight Operations				
Operations Mechanical life			Cycles	5000000
Operations Mechanical life Electrical life				5000000 700000
Operations Mechanical life Electrical life Safety related data			Cycles	
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1		Cycles Cycles	700000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	Cycles Cycles Cicli	700000 700000
Operations Mechanical life Electrical life Safety related data Performance level B1		rated load mechanical load	Cycles Cycles	700000 700000 5000000
Operations Mechanical life 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 Cycles Cicli	700000 700000 5000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility			Cycles Cycles Cicli	700000 700000 5000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating			Cycles Cycles Cicli	700000 700000 5000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1		Cycles Cycles Cicli	700000 700000 5000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz		Cycles Cycles Cicli	700000 700000 5000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1	mechanical load	Cycles Cycles Cicli Cicli	700000 700000 5000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cycles Cicli Cicli	700000 700000 5000000 yes yes 0.8
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cycles Cicli Cicli	700000 700000 5000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cycles Cicli Cicli Sicli	700000 700000 5000000 yes yes 0.8 1.1
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cycles Cycles Cicli Cicli Cicli	700000 700000 5000000 yes yes 0.8 1.1 0.2
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	Cycles Cycles Cicli Cicli Sicli	700000 700000 5000000 yes yes 0.8 1.1
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min	Cycles Cycles Cicli Cicli Cicli	700000 700000 5000000 yes yes 0.8 1.1 0.2
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min max	Cycles Cycles Cicli Cicli Cicli %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli Sicli Sicli Cicl	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Operations Mechanical life Electrical life Safety related data Performance level B1	ng to IEC/EN 609474-4-1 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 Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us %Us	700000 700000 5000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6

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



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240VAC/DC

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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 voltage	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 consuption	on ≤20°C				
			in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operations				Cycles/h	n 1200
Operating times					
Average time for Us co					
	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			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	800
Other features					-
Pollution degree					3
Dimensions					



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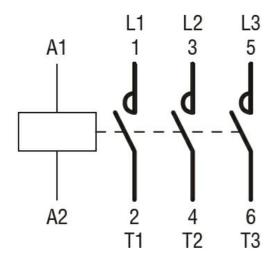
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194 (7.64") 263 (10.35") 65 (2.56") 65 6 (0.24") (6.99") 0 Θ R 0 0 Θ 270 170 (6.69") 230 (9.05") 230 (9.05") 0 Θ -0120AT 1 0

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

-M10

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

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