BFK11500A23060



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 60HZ

Product type designation	Product designation				Power contactor
Number of poles Nr. 3 Rated insulation voltage UI IEC/EN V 600 Rated insulation voltage UImp KV 8 Operational frequency min Hz 25 max Hz 400 160 Rated operational power AC-6b (Ts40°C) 230V kvar 45 4000 kwar 75 440480V kvar 85 690 kwar 85 690V kvar 85 690 kwar 850 690V A 1200 500V A 850 690V A 905 Resistance per pole (average value) mnQ 0.45 70 Power dissipation per pole (average value) mn 6 70 Tightening torque for coil terminal					BFK115
Rated insulation voltage UI EC/EN V 690 Rated inpulse withstand voltage Uimp KV 8 Operational frequency min Hz 25 max Hz 400 160 Rated operational free air thermal current lth A 160 Rated operational power AC-6b (T540°C) 230V kvar 45 4000 kvar 75 440.480V kvar 85 690V kvar 75 440.480V kvar 85 690V kvar 135 5 690V kvar 135 Short-time allowable current for 10s (IEC/EN60947-1) A 920 Protection fuse 90 90 Making capacity at voltage 440V A 1200 500V A 850 Power dissipation per pole (average value) mC 0.45 90 690V A 905 Tightening torque for coil terminals min Nm 6 max Nm 1.5 11 min Nm 2 2 <		S			
Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 160 Rated operational power AC-6b (TS40°C) 230V kvar 45 400V kvar 85 690V kvar 85 690V kvar 85 690V kvar 85 Short-time allowable current for 10s (IEC/EN60947-1) A 920 900 Reaking capacity RMS value) A 1500 Breaking capacity RMS value) A 1200 500V A 1200 Short-time allowable current for 10s (IEC/EN60947-1) M 1200 500V A 1200 Breaking capacity RMS value) M 135 500V A 1200 Breaking capacity RMS value) mΩ 0.45 700 70 Power dissipation per pole (average value) mN 1 70 70 Tightening torque for coil terminal min Nm	· · · · · · · · · · · · · · · · · · ·				
Operational frequency min max Hz 25 max IEC Conventional free air thermal current lth A 160 Rated operational power AC-6b (T≤40°C) 230V kvar 45 400V Rated operational power AC-6b (T≤40°C) 230V kvar 45 400V Bioscience 690V kvar 75 At0480V kvar 75 At0480V kvar 75 Bioscience 690V kvar 75 At0480V kvar 75 44045 Bioscience gG (IEC) A 1500 Bireaking capacity (RMS value) A 1500 500V A 850 Breaking capacity at voltage 440V A 1200 500V A 850 Power dissipation per pole (average value) min Nm 6 max Nm 4 Tightening torque for coil terminal min Nm 6 min Nm 1 Max number of wires simultaneously connectable Nr. 2 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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max Hz 400 IEC Conventional free air thermal current lth A 160 Rated operational power AC-6b (T540°C) 230V kvar 45 400V kvar 45 400V kvar 45 400V kvar 45 400V kvar 45 690V kvar 135 5 5 60V kvar 135 Short-time allowable current for 10s (IEC/EN60947-1) A 920 9 905 Protection fuse gG (IEC) A 1500 8 850 680V A 1500 8 850 680V A 1500 8 905 8 905 8 905 8 905 8 905 8 905 90	Operational frequency	/			
IEC Conventional free air thermal current Ith A 160 Rated operational power AC-8b (Ts40°C) 230V kvar 45 400V kvar 75 440480V kvar 75 440480V kvar 75 690V kvar 75 Short-time allowable current for 10s (IEC/EN60947-1) A 920 920 Protection tuse gG (IEC) A 160 Making capacity (RMS value) A 1500 800V A 920 Breaking capacity at voltage gG (IEC) A 1600 800V A 905 Resistance per pole (average value) mΩ 0.45 900s 800V A 905 Power dissipation per pole (average value) Ith W 11.5					
Rated operational power AC-6b (T≤40°C) 230V kvar 45 400V kvar 75 440480V kvar 85 690V kvar 85 690V kvar 85 690V A 920 Protection fuse gG (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Breaking capacity at voltage 440V A 1200 500V A 850 Resistance per pole (average value) mC 0.45 Power dissipation per pole (average value) Tightening torque for terminals min Nm 6 Tightening torque for coil terminals min Nm 6 nmax Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section 1.5 min min min 1.5 min Mm² 1.5 max mm² 1.5 max mm² 1.5 max mm²	IFO Operation of the		max		
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690V kvar 135 Short-time allowable current for 10s (IEC/EN60947-1) A 920 Protection fuse gG (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Breaking capacity at voltage 440V A 1200 500V A 850 Breaking capacity at voltage min Nm 100 500V A 905 Resistance per pole (average value) mQ 0.45 0.45 0.45 0.45 Power dissipation per pole (average value) Ith W 11.5 0.45 0.45 Tightening torque for terminals min Nm 6 max. Nm 7 0 Tightening torque for coil terminal min Nm 1 0.8 max. Nm 1 0.8 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.44					
Short-time allowable current for 10s (IEC/EN60947-1) A 920 Protection fuse gG (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Short-time allowable current for 10s (IEC/EN60947-1) A 1500 Breaking capacity at voltage 440V A 1200 Breaking capacity at voltage 440V A 1200 Short-time allowable current for 10s (IEC/EN60947-1) M A 1500 Breaking capacity at voltage A 1500 Breaking capacity at voltage A 905 Resistance per pole (average value) m M 11.5 M 11.5 Power dissipation per pole (average value) min Nm 6 max Nm 7 Tightening torque for coil terminals min Nm 6 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Flexible c/w lug conductor section<					
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Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 S00V A 850 690V A 905 Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) mΩ 11.5 Tightening torque for terminals min Nm 6 max Nm 7 Tightening torque for coil terminal min Nm 6 8.2 2.2 2.2 Tightening torque for coil terminal min Nm 0.8 max Nm 1			dG (IFC)	Δ	160
Breaking capacity at voltage 440V A 1200 500V A 850 690V A 905 Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) th W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min Nm Tightening torque for coil terminal min Nm 1.4.4 max Ibin 5.2 1000000000000000000000000000000000000	Making capacity (PMS	S value)	90 (ILC)		
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500V A 850 (690V A 905 Resistance per pole (average value) mΩ 0.45 0.45 Power dissipation per pole (average value) Ith W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4 max Ibin 5.2 Tightening torque for coil terminal 5.2 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 2 2 2 Conductor section Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front IP20 front IP20 front Mechanical features operating position screw / DIN rail allowable ±30° Screw / DIN rail 35mm Fixing Screw / DIN rail 35mm Screw / DIN rail 35mm Screw / DIN rail 35mm		onage	440\/	Δ	1200
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Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) Ith W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4 max Ibin 5.2 5.2 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin Prodotti finiti Max number of wires simultaneously connectable Nr. 2 Conductor section Flexible w/o lug conductor section min mm² 1.5 max mm² 7.0 70 Power terminal protection according to IEC/EN 60529 IP20 front IP20 front Mechanical features Operating position normal allowable 430° Fixing Screw / DIN rail 35m Screw / DIN rail 35m Weight g 2095					
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Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4 max Ibin 4.4 max Ibin 5.2 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of vires simultaneously connectable Nr. 2 2 2 2 Conductor section Flexible w/o lug conductor section min mm² 1.5 1.5 Flexible c/w lug conductor section min mm² 1.5 2 2 Power terminal protection according to IEC/EN 60529 IP20 front IP20 front 1 Machanical features Operating position normal allowable ±30° 5 Fixing Screw / DIN rail 35mm 35mm 100 1			Ith	W	11.5
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Conductor section Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front Operating position normal allowable ±30° Fixing Screw / DIN rail 35mm Weight g 2095			max	lbin	Prodotti finiti
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min maxmm²1.5 mm²Flexible c/w lug conductor sectionmin mm²mm²Flexible c/w lug conductor sectionmin mm²mm²Power terminal protection according to IEC/EN 60529IP20 frontMechanical featuresIP20 frontOperating positionvertical plan ±30°FixingScrew / DIN rail 35mmWeightg2095	Conductor section				
maxmm²70Flexible c/w lug conductor sectionminmm²1.5maxmm²70Power terminal protection according to IEC/EN 60529IP20 frontMechanical featuresOperating positionNormal allowableVertical plan±30°FixingScrew / DIN rail 35mmWeightg2095		Flexible w/o lug conductor section			
Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features Operating position Normal allowable Vertical plan ±30° ±30° ±30° Fixing Screw / DIN rail 35mm Weight g 2095			min	mm²	1.5
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Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail Weight g 2095			max	mm²	
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normal allowableVertical plan ±30°FixingScrew / DIN rail 35mmWeightg2095					
allowable ±30° Fixing Screw / DIN rail 35mm Weight g 2095	Operating position				
Fixing Screw / DIN rail 35mm g 2095					
Fixing 35mm Weight g 2095			allowable		
Weight g 2095	Fixing				
	Weight			n	
				3	

BFK11500A23060 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

BFK11500A23060



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, ENERGY AND AUTOMATION COIL 230VAC 60HZ

Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data		10 100 1			
Performance level Bit	Dd according to EN/ISO	13489-1	rated load	ovoloo	400000
			mechanical load	cycles cycles	1500000
EMC compatibility			mechanicarioau	Cycles	Yes
Rated AC voltage at 60)Hz			V	230
AC coil operating				•	
AC operating voltage					
	of 60Hz coil powered a	t 60Hz			
	·	pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
Max cycles frequency				ovele=/	1500
Mechanical operation				cycles/h	1500
Operating times Average time for Us co	ontrol				
Average time for 05 cc	in AC				
	III AC	Closing NO			
			min	ms	16
			max	ms	32
		Opening NO		mo	02
		-1- 5	min	ms	9
			max	ms	24
UL technical data					
General USE					
General USE	Contactor				
	Contactor		AC current	A	160
Ambient conditions	Contactor		AC current	A	160
			AC current	A	160
Ambient conditions	Contactor Operating temperature				
Ambient conditions			min	°C	-50
Ambient conditions	Operating temperature				
Ambient conditions			min max	°C °C	-50 70
Ambient conditions	Operating temperature		min max min	°C °C °C	-50 70 -60
Ambient conditions	Operating temperature		min max	°C °C °C °C	-50 70 -60 80
Ambient conditions Temperature	Operating temperature Storage temperature		min max min	°C °C °C	-50 70 -60
Ambient conditions Temperature Max altitude	Operating temperature Storage temperature		min max min	°C °C °C °C	-50 70 -60 80
Ambient conditions Temperature Max altitude Resistance & Protectio	Operating temperature Storage temperature		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions	Operating temperature Storage temperature		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protectio Pollution degree Dimensions Wiring diagrams	Operating temperature Storage temperature		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com	Operating temperature Storage temperature		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protectio Pollution degree Dimensions	Operating temperature Storage temperature on		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com	Operating temperature Storage temperature on pliance CSA C22.2 n° 60947-1		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com	Operating temperature Storage temperature on pliance <u>CSA C22.2 n° 60947-1</u> <u>CSA C22.2 n° 60947-4</u>		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com	Operating temperature Storage temperature on pliance <u>CSA C22.2 n° 60947-1</u> <u>CSA C22.2 n° 60947-4</u> IEC/EN 60947-1		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com	Operating temperature Storage temperature on pliance <u>CSA C22.2 n° 60947-1</u> <u>CSA C22.2 n° 60947-4</u> <u>IEC/EN 60947-1</u> <u>IEC/EN 60947-4-1</u>		min max min	°C °C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com	Operating temperature Storage temperature on pliance <u>CSA C22.2 n° 60947-1</u> <u>CSA C22.2 n° 60947-4</u> IEC/EN 60947-1		min max min	°C °C °C °C	-50 70 -60 80 3000



ENERGY AND AUTOMATION

BFK11500A23060 CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 60HZ

Certificates CCC cULus ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor