

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE **electric** (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 230VAC 60HZ

Power contactor Product designation Product type designation BFK09 Contact characteristics Nr. Number of poles 3 Rated insulation voltage Ui IEC/EN ٧ 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency 25 Hz min max Н 400 IEC Conventional free air thermal current Ith 25 Α Rated operational power AC-6b (T≤40°C) 230V kvar 4.5 400V 7.5 kvar 440...480V kvar 9 690V kvar 10 Short-time allowable current for 10s (IEC/EN60947-1) Α 150 Protection fuse gG (IEC) 16 Making capacity (RMS value) Α 90 Breaking capacity at voltage 440V Α 72 500V 72 Α 690V 71 Α Resistance per pole (average value) $m\Omega$ 2.5 Power dissipation per pole (average value) W Ith 1.6 Tightening torque for terminals Nm 1.5 min max Nm 1.8 lbin 1.1 min Ibin 1.5 max Tightening torque for coil terminal min Nm 0.8 Nm max 1 lbin Prodotti finiti min Prodotti finiti Ibin max Max number of wires simultaneously connectable Nr. 2 Conductor section Flexible w/o lug conductor section min mm² 1 6 mm² max Flexible c/w lug conductor section min mm² 1 mm² 4 max Flexible with insulated spade lug conductor section min mm² 1 max mm² Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical feature Operating position normal Vertical plan ±30° allowable



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ENERGY AND AUTOMATION

Screw / DIN rail Fixing 35mm Weight 416 g Auxiliary contact characteristics 1 NO Type of contact Thermal current Ith Α 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V 3 Α 400V Α 1.9 500V Α 1.4 Operating current DC12 110V Α 5.7 Operating current DC13 24V Α 5.7 48V Α 2.9 60V Α 2.3 110V Α 1.25 125V 1.1 Α 220V Α 0.6 600V 0.1 Α Operations Mechanical life 20000000 cycles Electrical life 400000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 400000 rated load cycles 20000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 YES **EMC** compatibility Yes Rated AC voltage at 60Hz V 230 AC coil operating AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 %Us 110 max drop-out %Us 20 min %Us 55 max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz VA 75 in-rush holding VA 9 of 50/60Hz coil powered at 60Hz VA 70 in-rush holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600



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ENERGY AND AUTOMATION COIL 230VAC 60HZ

Operating times					
Average time for Us	control				
	in AC				
	(Closing NO			
			min	ms	8
			max	ms	24
	(Opening NO			4.0
			min	ms	10
	,	Clasing NC	max	ms	20
	•	Closing NC	min	ms	14
			max	ms	28
UL technical data			IIIdX	1113	20
General USE					
	Contactor				
			AC current	Α	25
	Auxiliary contacts		·		
	•		AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
	kiliary contacts according to L	JL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature			0.0	50
			min	°C	-50 70
	Storage temperature		max		70
	Storage temperature		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protect	ction				
Pollution degree					3
Dimensions					
Wiring diagrams					
Certifications and co	mnliance				
Compliance	mpilarioc —				
Compilation	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				
Certificates					
	CCC				
	cULus				
	EAC				
ETIM classification					
					EC001079 -
ETIM 8.0					Capacitor

BFK0910A23060 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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