

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE Electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR,

ENERGY AND AUTOMATION COIL 460VAC 60HZ

Product designation			Power contactor
Product type designation			BFK09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	4.5
	400V	kvar	7.5
	440480V	kvar	9
·	690V	kvar	10
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	A	16
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	Prodotti finiti
Management of citizen simultaneously some stable	max	Ibin	Prodotti finiti
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
Flexible w/o lug conductor section	min	mm²	1
	min max	mm²	1 6
Flexible c/w lug conductor section	IIIaX	111111	U
I TEXIDLE OF WIND CONTROLL SECTION	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor section	Παλ	111111	т
1 loxible with insulated space by conductor section	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529	παχ	111111	IP20 when wired
Mechanical features			20 WHOH WHEA
Operating position			
	normal		Vertical plan
	allowable		±30°
	anomabio		



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ENERGY AND AUTOMATION

COIL 460VAC 60HZ

Weight	Fixing				Screw / DIN rail
Auxiliary contact characteristics					
Type of contact				g	416
Thermal current Ith	•				1 NO
EC/EN 60947-5-1 designation				Δ	
Separating current AC15					
230V					A000 - 1 000
Mathematical Information Mathematical Informatical Informatic	operating durient A010		2301/	Δ	3
Solv					
Operating current DC13 1100					
Departing current DC13	Operating current DC12		0001		
Section Sec	operating defront Borz		110V	Α	5.7
24V A 5.7 48V A 2.9 60V A 2.3 60V A 1.25 60V A 0.6 60V A 0.1 60V A	Operating current DC13				<u> </u>
ABV A 2.9	operating carrein 2 0 to		24V	Α	5.7
Comparations					
110V					
125V					
Operations Cycles 20000000 Bechanical life cycles 20000000 Electrical life cycles 400000 Safety related data rated load mechanical load cycles 400000 Ferformance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 cycles Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility Yes Rated AC voltage at 60Hz Y 460 AC operating AC operating voltage AC operating voltage min %Us 80 Min %Us 55 AC operating In-rus					
Operations Mechanical life cycles 20000000 Electrical life cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 cycles 200000000 Mirror contats according to IEC/EN 609474-4-1 yes 200000000 Mirror contats according to IEC/EN 609474-4-1 yes 200000000 EMC compatibility yes 200000000 Rated AC voltage at 60Hz yes 20000000 AC operating voltage AC operating voltage of 60Hz coil powered at 60Hz min %Us 80 min %Us 80 max %Us 20 max %Us 20 min %Us					
Operations Mechanical life cycles 20000000 Electrical life cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 cycles 200000000 Mirror contats according to IEC/EN 609474-4-1 Table of Cycles 200000000 20000000 20000000 20000000 200000000 20000000 20000000 200000000 20000000 20000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 200000000 20000000 20000000 20000000 200000000 200000000 200000000 200000000 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Mechanical life cycles 20000000 Electrical life cycles 400000 Safety related data rated load mechanical load cycles 400000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility Yes Rated AC voltage at 60Hz V 460 AC coll operating AC operating voltage of 60Hz coil powered at 60Hz min %Us 80 min %Us 80 max %Us 110 drop-out min %Us 20 Max cycles frequency	Operations				
Electrical life cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 200000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Yes Rated AC voltage at 60Hz AC coil operating voltage of 60Hz coil powered at 60Hz drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding VA 9 of 60Hz coil powered at 60Hz in-rush holding VA 75 holding VA 75 holding VA 75 solution in-rush holding S20°C 50Hz Max cycles frequency Dissipation at holding ≤20°C 50Hz Max overses requency	•			cycles	20000000
Performance level B10d according to EN/ISO 13489-1 rated load weehanical load vocal (cycles) 20000000 weehanical load vocal (cycles) weehanical	Electrical life			-	400000
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load opcolor (cycles) 400000 (cycles) 200000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility Yes Rated AC voltage at 60Hz V 460 AC operating Min operating %Us 80 Max words %Us 110 drop-out min words %Us 80 max words %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush words VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush words VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush words VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency				,	
Mirror contats according to IEC/EN 609474-4-1 rated load mechanical load cycles 400000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility Yes Rated AC voltage at 60Hz V 460 AC coil operating W 460 AC operating voltage min %Us 80 Max %Us 110 drop-out min %Us 55 AC average coil consumption at 20°C max %Us 55 AC average coil consumption at 20°C in-rush holding VA 75 holding of 50/60Hz coil powered at 50Hz in-rush holding VA 75 holding of 60Hz coil powered at 60Hz in-rush holding VA 75 holding of 60Hz coil powered at 60Hz in-rush holding VA 75 holding Dissipation at holding ≤20°C 50Hz W 2.5	•	SO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 mechanical load volces 20000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility Yes Rated AC voltage at 60Hz V 460 AC coil operating V 460 AC operating voltage Mirror contats according to the property of the property	-		rated load	cycles	400000
Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility Yes Rated AC voltage at 60Hz V 460 AC coil operating V 460 AC operating voltage min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 75 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 75 holding VA 6.5 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency			mechanical load	-	20000000
EMC compatibility Yes Rated AC voltage at 60Hz AC operating voltage a f 60Hz coil powered at 60Hz pick-up min wolls 80 max wolls 110 with 110 max wolls 110 with 110 max wolls 150 drop-out min wolls 20 colspan="2">wolls 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding VA 9 of 50/60Hz coil powered at 60Hz 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	Mirror contats according to IEC/EN 609474	-4-1			YES
AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz V 2.5 Max cycles frequency					Yes
AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 6.5 of 50/60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5	Rated AC voltage at 60Hz			V	460
of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 of 60Hz coil powered at 60Hz in-rush VA 70 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					
pick-up min	AC operating voltage				
min	of 60Hz coil powere	ed at 60Hz			
Max WUs 110	·	pick-up			
Min Wils 20 max Wils 55		•	min	%Us	80
min max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush holding VA 70 holding in-rush holding VA 6.5 VA 75 holding Of 60Hz coil powered at 60Hz in-rush holding VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency W 2.5			max	%Us	110
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush holding VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush holding VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency		drop-out			
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 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			min	%Us	20
of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz Max cycles frequency			max	%Us	55
in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency					
holding VA 9 of 50/60Hz coil powered at 60Hz in-rush vA 70 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	of 50/60Hz coil pow	ered at 50Hz			
of 50/60Hz coil powered at 60Hz in-rush VA 70 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					
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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					
in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency			holding	VA	6.5
holdingVA9Dissipation at holding ≤20°C 50HzW2.5Max cycles frequency	of 60Hz coil powere	ed at 60Hz			
Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency					
Max cycles frequency			holding		
				W	2.5
Mechanical operation cycles/h 3600					
	Mechanical operation			cycles/h	3600



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ENERGY AND AUTOMATION COIL 460VAC 60HZ

Operating times					
Average time for Us	control				
-	in AC				
	(Closing NO			
			min	ms	8
			max	ms	24
	(Opening NO			
			min	ms	10
	,	Olasia a NO	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
	liary contacts according to L	JL			A600 - P600
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature		min	°C	-50
			max	°C	70
	Storage temperature		max		
	2.2gp		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protect	ion				
Pollution degree					3
Dimensions					
Wiring diagrams					
Certifications and cor	npliance				
Compliance					
	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				
ETIM plansification	EAC				
ETIM classification					EC001079 -
ETIM 8.0					Capacitor contactor