## BFK5000A230



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 230VAC 50/60HZ



Product designation				Power contactor
Product type designat	ion			BFK50
Contact characteristics	3			
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	nd voltage Uimp		kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		А	90
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	22
		400V	kvar	40
		440480V	kvar	41
		690V	kvar	46
Short-time allowable of	urrent for 10s (IEC/EN60947-1)		А	400
Protection fuse				
		gG (IEC)	А	80
Making capacity (RMS	value)	<u> </u>	А	500
Breaking capacity at v				
		440V	А	400
		500V	A	352
		690V	A	312
Resistance per pole (a	average value)		mΩ	0.8
Power dissipation per				
r ener dieelpaden per		lth	W	6.5
Tightening torque for t	erminals			0.0
rightening torque for t		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	coil terminal	Пах	10111	0.00
rightening torque for e		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	Пах	Nr.	2
Conductor section			111.	۷
	AWG/Kcmil			
	AWG/Remin	max		2
	Flexible w/o lug conductor section	Παλ		2
	I ICADIE WO ING CONDUCTOR SECTION	min	mm²	1.5
			mm²	35
	Flexible c/w lug conductor section	max	11111	50
			mm2	1 5
		min	mm²	1.5

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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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		max	mm²	35
Power terminal protect	ion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1090
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility			-	yes
AC coil operating				
Rated AC voltage at 50	)/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤	20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			

**Closing NO** 

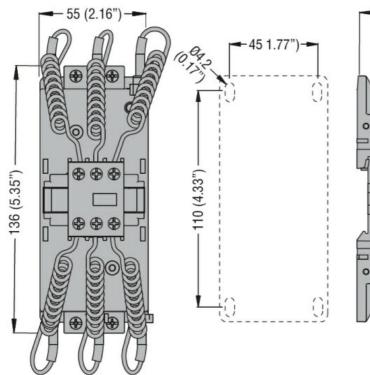
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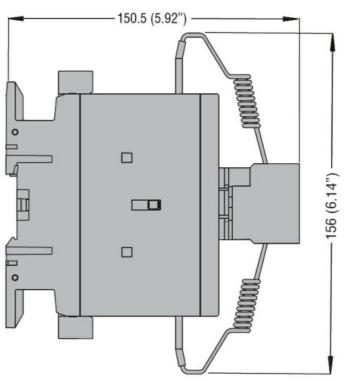


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			min	ms	12
			max	ms	28
		Opening NO		me	20
		oponing No	min	ms	8
			max	ms	22
	in DC		тах	me	
		Closing NO			
		e.eeg.re	min	ms	40
			max	ms	85
		Opening NO			
		1 0	min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	А	90
Ambient conditions					
Temperature					
	Operating temperature	)			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protect	ion				
Pollution degree					3
Dimensions					

Dimensions





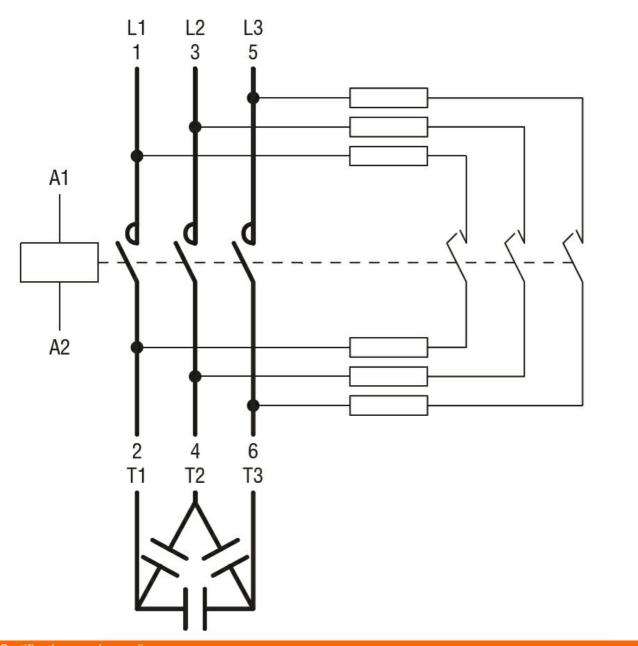
## Wiring diagrams

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## Certifications and compliance

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Comp	nance
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CSA C22.2 n° 60947-1           CSA C22.2 n° 60947-4-1           IEC/EN/BS 60947-1           IEC/EN/BS 60947-4-1           UL 60947-1           UL 60947-4-1           Certificates           CCC           cULus	Compliance		
IEC/EN/BS 60947-1           IEC/EN/BS 60947-4-1           UL 60947-1           UL 60947-4-1           Certificates           CCC           cULus           ETIM classification           ETIM 8.0		CSA C22.2 n° 60947-1	
IEC/EN/BS 60947-4-1           UL 60947-1           UL 60947-4-1           Certificates           CCC cULus           ETIM classification           ETIM 8.0		CSA C22.2 n° 60947-4-1	
UL 60947-1           UL 60947-4-1           Certificates <u>CCC</u> cULus   ETIM classification ETIM 8.0 EC001079 - Capacitor		IEC/EN/BS 60947-1	
UL 60947-4-1 Certificates CCC CULus ETIM classification ETIM 8.0 ECO01079 - Capacitor		IEC/EN/BS 60947-4-1	
Certificates CCC cULus ETIM classification ETIM 8.0 ETIM 8.0 EC001079 - Capacitor		UL 60947-1	
CCC         cULus         ETIM classification         ETIM 8.0		UL 60947-4-1	
cULus       ETIM classification       EC001079 - Capacitor	Certificates		
ETIM classification EC001079 - ETIM 8.0 Capacitor		CCC	
EC001079 - ETIM 8.0 Capacitor		cULus	
ETIM 8.0 Capacitor	ETIM classification		
	ETIM 8.0		Capacitor

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