## BFK5000A12060



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 120VAC 60HZ



Product designation				Power contactor
Product type designa	ation			BFK50
Contact characteristic				
Number of poles			Nr.	3
Rated insulation volta	age Ui IEC/EN		V	690
Rated impulse withsta			kV	8
Operational frequenc				-
	<i>y</i>	min	Hz	25
		max	Hz	400
IFC Conventional free	e air thermal current Ith	max	A	90
Rated operational po				00
rated operational po		230V	kvar	22
		400V	kvar	40
		440480V	kvar	40
		690V	kvar	46
Short-time allowable	current for 10s (IEC/EN60947-1)	0001	A	400
Protection fuse			~	400
FIDIECTIONIUSE		gG (IEC)	۸	80
Making consoits (DM	S value)	gg (iec)	A	500
Making capacity (RM			A	500
Breaking capacity at	voltage	44014	٨	400
		440V	A	400
		500V	A	352
		690V	<u>A</u>	312
Resistance per pole			mΩ	0.8
Power dissipation pe	r pole (average value)			
		Ith	W	6.5
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
	-	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	v			4 5

mm²

min

1.5



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR,

COIL 120VAC 60HZ

BFK5000A12060

	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±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 B10d according to EN/ISO 13489-1			400000
	rated load	cycles	400000
EMC competibility	mechanical load	cycles	1500000
EMC compatibility AC coil operating			yes
Rated AC voltage at 60Hz		V	120
AC operating voltage		V	120
of 60Hz coil powered at 60Hz			
pick-up			
plot up	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
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 control			
in AC			
Closing NO			
	min	ms	12
	max	ms	28
Opening NO	max		-
	min	ms	8
	max	ms	22
in DC			
Closing NO			
	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
III technical data	max	ms	55

UL technical data

BFK5000A12060 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

ENERGY AND AUTOMATION

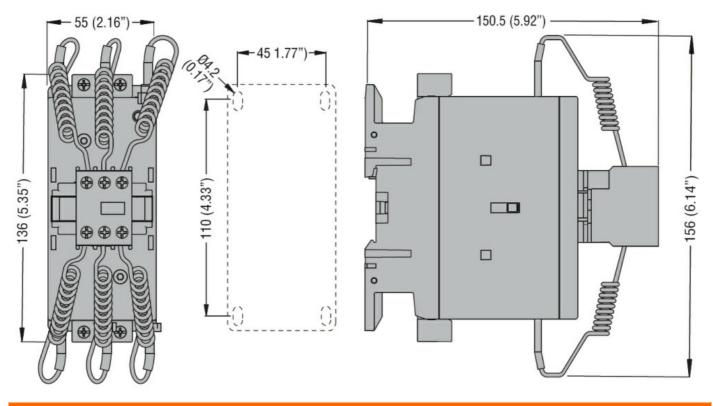
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 120VAC 60HZ

BFK5000A12060

## General USE

Dimensions

	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

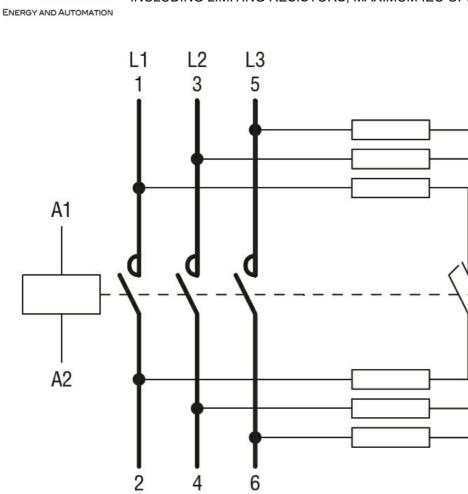


Wiring diagrams

BFK5000A12060



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 120VAC 60HZ



## Certifications and compliance

T1

T2

T3

<u> </u>	
( 'omn	lianco
Comp	

Ce

ΕT

ΕT

Jinpliance		
	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	
ertificates		
	CCC	
	cULus	
TIM classification		
TIM 8.0		EC001079 - Capacitor contactor