## BFK5000A02460



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 24VAC 60HZ



Product designation			Power contactor
Product type designation			BFK50
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	90
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	22
	400V	kvar	40
	400V 440480V	kvar	40
	440400V 690V	kvar	46
Short-time allowable current for 10s (IEC/EN60947-1)	0907	A	400
Protection fuse		A	400
FICIECIIOITIUSE		^	00
	gG (IEC)	<u>A</u>	80
Making capacity (RMS value)		А	500
Breaking capacity at voltage	4.4014		400
	440V	A	400
	500V	A	352
	690V	A	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	lth	W	6.5
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	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			
			4 5

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mm²

min

1.5



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	max	mm²	35
Power terminal protection 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 B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
	mechanical load	cycles	15000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	24
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 60Hz coil powered at 60Hz			
	in-rush	VA	210
	holding		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			
in AC Closing NO			10
	min	ms	12
Closing NO	min max	ms ms	12 28
	max	ms	28
Closing NO	max	ms ms	28 8
Closing NO Opening NO	max	ms	28
Closing NO Opening NO in DC	max	ms ms	28 8
Closing NO Opening NO	max min max	ms ms ms	28 8 22
Closing NO Opening NO in DC	max min max min	ms ms ms	28 8 22 40
Closing NO Opening NO in DC Closing NO	max min max	ms ms ms	28 8 22
Closing NO Opening NO in DC	max min max min max	ms ms ms ms	28 8 22 40 85
Closing NO Opening NO in DC Closing NO	max min max min	ms ms ms	28 8 22 40

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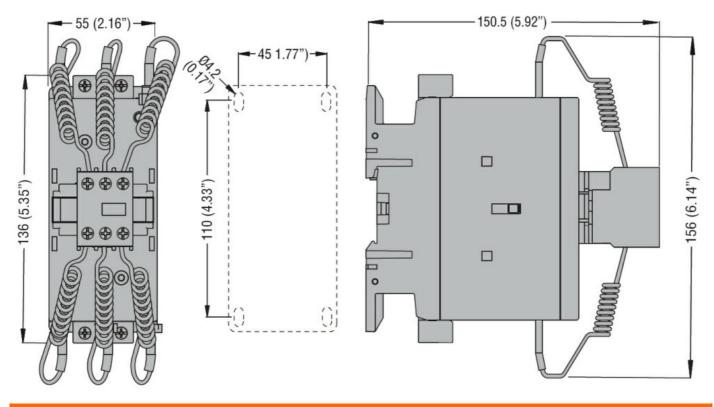
ENERGY AND AUTOMATION

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## 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 & Protecti	ion			
Pollution degree				3
Dimensions				



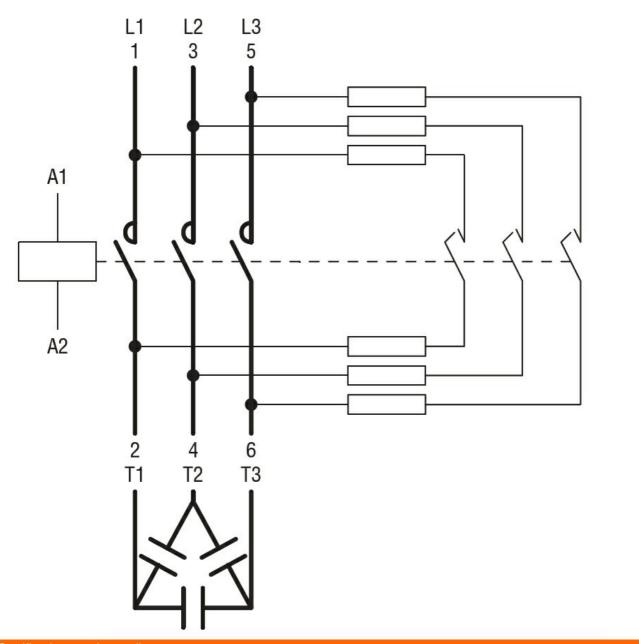
Wiring diagrams

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## Certifications and compliance

Comp	liance
Comp	nanoo

Compliance		
	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	
ETIM classification		
ETIM 8.0		EC001079 - Capacitor contactor