

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 50/60HZ



Des dust de sien stien				Device contractor
Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	5		N I#	2
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free			Α	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	value)		А	320
Breaking capacity at v	oltage			
0 1 2	C .	440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per				
. ener aleelbanen bei		lth	W	6
Tightening torque for t	erminals			<u> </u>
rightening terque for t		min	Nm	2.5
		max	Nm	3
		min	Ibin	1.8
		max	Ibin	2.2
Tightening torque for a	coil torminal	Παλ	IDIII	2.2
		min	Nm	0.8
			Nm	1
		max	Ibin	0.59
		min		
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			0
		max		6
	Flexible w/o lug conductor section		-	
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 50/60HZ

	max	mm²	10
FI	lexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
	according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position	normal		Vortical plan
	allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	400
Conductor section			
A	WG/kcmil conductor section		
	max		6
Operations			00000000
Mechanical life		cycles	20000000 1600000
Safety related data		cycles	
	according to EN/ISO 13489-1		
	rated load	cycles	400000
	mechanical load	cycles	2000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60	OHz	V	24
AC operating voltage	FEO/GOHZ and new orad at EOHZ		
U	f 50/60Hz coil powered at 50Hz pick-up		
	min	%Us	80
	max	%Us	110
	drop-out min	%Us	20
	max	%Us	20 55
of	f 50/60Hz coil powered at 60Hz	/000	00
-	pick-up		
	min	%Us	85
	max	%Us	110
	drop-out .	0/11	
	min	%Us	20
AC average coil consump	max ntion at 20°C	%Us	55
• •	f 50/60Hz coil powered at 50Hz		
0.	in-rush	VA	75
	holding	VA	9
of	f 50/60Hz coil powered at 60Hz		
	in-rush	VA	70
	holding	VA	7
01	f 60Hz coil powered at 60Hz in-rush	VA	75
	holding	VA VA	9
Dissipation at holding ≤20		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600

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COIL 24VAC 50/60HZ

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Operating times							
Average time for Us cor	ntrol						
	in AC						
		Closing NO				_	
				min	ms	8	
				max	ms	24	
		Opening NO		min	ms	5	
				max	ms	15	
		Closing NC		max	ine	10	
		5155g		min	ms	9	
				max	ms	20	
UL technical data							
General USE							
	Contactor						
			AC o	current	А	56	
Ambient conditions							
Temperature		_					
	Operating temperature	9		min	°C	-50	
				max	°C	-30 70	
	Storage temperature			тах	<u> </u>	10	<u> </u>
	eterage temperature			min	°C	-60	
				max	°C	80	
Max altitude					m	3000	
Resistance & Protection	n						
Pollution degree						3	
Dimensions [mm (in)]							
14	4.6			125.5			
7.9 - (0.5	4.6 57")		-	(4.94")			7
(0.31")	ດ໌	2		Î	nnnnn	M	1
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90 (3.54")		80 (3.15")					123~ (4.84"~
		(3			日開		4.6
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Wiring diagrams

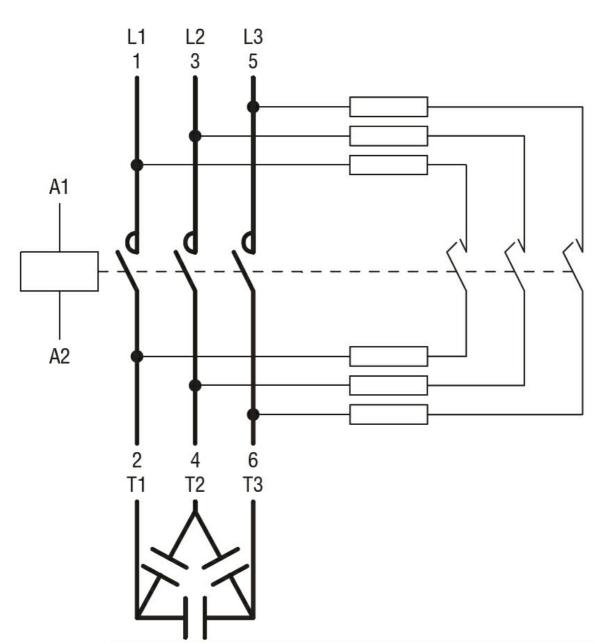
45 (1.77")

BFK3200A024

- 35 (1.38")



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 50/60HZ



#### Certifications and compliance

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Comp	nance
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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 48VAC 50/60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristics	5			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency	,			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	value)		А	320
Breaking capacity at v	oltage			
		440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per				
		lth	W	6
Tightening torque for t	erminals			
5 5 1		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	Ibin	2.2
Tightening torque for a	coil terminal			
5 5 1		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	max		
		min	mm²	1
				I

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		max	mm²	10
	Flexible with insulated spade lug conductor sectio	n		
		min	mm²	1
		max	mm²	10
	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				Martical alay
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	400
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				20000000
Mechanical life			cycles	2000000
Electrical life Safety related data			cycles	1600000
	0d according to EN/ISO 13489-1			
	ou according to E1/100 10405-1	rated load	cycles	400000
		mechanical load	cycles	20000000
EMC compatibility			0,0100	yes
AC coil operating				<b>y</b>
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pick-up	min	%Us	80
		min max	%Us %Us	80 110
	pick-up drop-out	max	%Us	110
		max min	%Us %Us	110 20
	drop-out	max	%Us	110
	drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
	drop-out	max min	%Us %Us	110 20
	drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 55
	drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
	drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	%Us %Us %Us %Us %Us %Us	110 20 55 85 110 20
10	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
AC average coil cons	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min	%Us %Us %Us %Us %Us %Us	110 20 55 85 110 20
AC average coil const	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55
AC average coil const	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75
AC average coil cons	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55
AC average coil cons	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75
AC average coil cons	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75 9
AC average coil cons	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us VA VA	110 20 55 85 110 20 55 75 9 70
AC average coil cons	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75 9 70
	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out Jumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75 9 70 7 75 9
Dissipation at holding	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz ≤20°C 50Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75 9 70 7 75 75
	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz ≤20°C 50Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75 9 70 7 75 9 2.5

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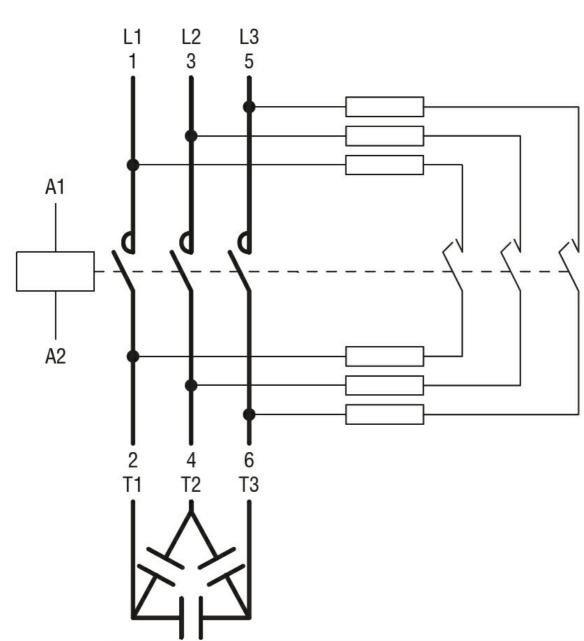
Operating times					
Average time for Us control					
in AC					
	Closing NO				
		min	ms	8	
		max	ms	24	
	Opening NO			_	
		min	ms	5	
		max	ms	15	
	Closing NC	min	ms	9	
		max	ms	20	
UL technical data					
General USE					
Contactor					
		AC current	А	56	
Ambient conditions					
Temperature					
Operating temper	ature	min	°C	-50	
		max	°C	-30 70	
Storage temperat	ure	Пал			
e consigue competente		min	°C	-60	
		max	°C	80	
Max altitude			m	3000	
Resistance & Protection					
Pollution degree				3	
Dimensions [mm (in)]					
14.6		125.5			_
7.9 (0.57")		(4.94")			
$(0.31^{\circ})$	2	1	nnnn	MA	T
	Onil			//~	
				Π	
			Т	//	
	5")		一市		2 <sup>2</sup>
90 (3.54 <sup>"</sup> )	80 (3.15")		I LH		123∼ (4.84" ~
TH®®®H					1 4

- 45 (1.77") Wiring diagrams

- 35 (1.38")



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 48VAC 50/60HZ



## Certifications and compliance

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Comp	nance

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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

BFK3200A048



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 110VAC 50/60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		A	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
	current for 10s (IEC/EN60947-1)		Α	320
Protection fuse				
		gG (IEC)	Α	63
Making capacity (RMS			Α	320
Breaking capacity at v	oltage			
		440V	А	256
		500V	А	240
		690V	Α	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
		lth	W	6
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	~	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	-	min	mm²	1

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 110VAC 50/60HZ

BFK3200A110

Flexible with insulated spade lug   Power terminal protection according to IEC/EN 60529   Mechanical features   Operating position   Fixing   Weight   Conductor section   AWG/kcmil conductor section	max g conductor section min max normal allowable	mm² mm² mm²	10 1 10 IP20 when properly wired
Power terminal protection according to IEC/EN 60529    Mechanical features   Operating position   Fixing   Weight   Conductor section	min max normal		10 IP20 when properly wired
Mechanical features   Operating position   Fixing   Weight   Conductor section	normal	mm <sup>2</sup>	IP20 when properly wired
Mechanical features Operating position Fixing Weight Conductor section			properly wired
Mechanical features Operating position Fixing Weight Conductor section			
Operating position Fixing Weight Conductor section			Vertical plan
Fixing Weight Conductor section			Vertical plan
Weight Conductor section			Vartical plan
Weight Conductor section	allowable		Vertical plan
Weight Conductor section			±30°
Conductor section			Screw / DIN rail 35mm
Conductor section		a	400
		g	400
	max		6
Operations			-
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data		,	
Performance level B10d according to EN/ISO 13489-1			
-	rated load	cycles	400000
	mechanical load	cycles	20000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	110
AC operating voltage			
of 50/60Hz coil powered at 50H	Z		
pick-up			
	min	%Us	80
	max	%Us	110
drop-ou			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60H			
pick-up		%Us	85
	min max	%Us %Us	85 110
drop-ou		/003	110
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50H	Z		
•	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil powered at 60H	Z		
	in-rush	VA	70
	holding	VA	7
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz Max cycles frequency		W	2.5
Mechanical operation		cycles/h	3600

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR,

COIL 110VAC 50/60HZ

BFK3200A110

Operating times Average time for Us control					
in AC					
III AG	Closing NO				
	closing ite	min	ms	8	
		max	ms	24	
	Opening NO				
		min	ms	5	
		max	ms	15	
	Closing NC				
		min	ms	9	
UL technical data		max	ms	20	
General USE					
Contactor					
		AC current	А	56	
Ambient conditions					
Temperature					
Operating temperatu	lre				
		min	°C	-50	
		max	°C	70	
Storage temperature	9	min	°C	-60	
		max	°C	-00 80	
Max altitude		max	 	3000	
Resistance & Protection					
Pollution degree				3	
Dimensions [mm (in)]					
14.6		125.5			
7.9 - (0.57")		(4.94")			٦
(0.31")	0		กกกกกก	00	<u>+</u> ,
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(3.54")	80 (3.15")				123~ (4.84"~)
	(3				4

Wiring diagrams

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45 (1.77")

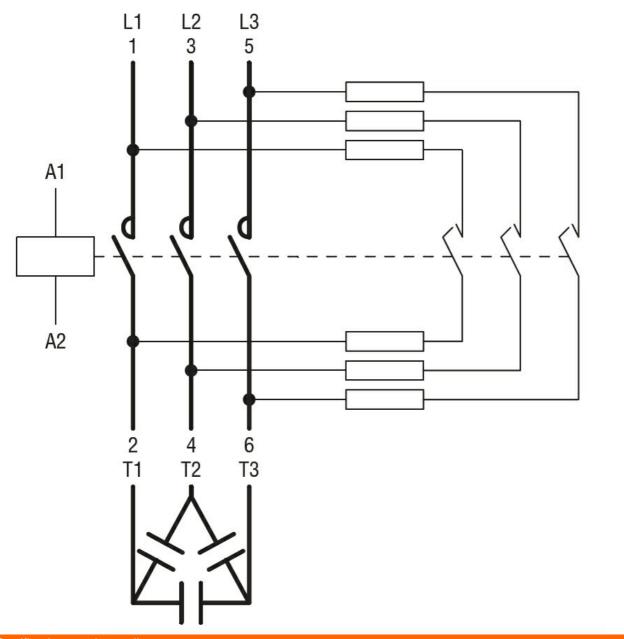
BFK3200A110

- 35 (1.38")



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 110VAC 50/60HZ





## Certifications and compliance

Compl	

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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 50/60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency	1			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		Α	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	s value)		А	320
Breaking capacity at v	oltage			
	-	440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
		Ith	W	6
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	č	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	5	min	mm²	1

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ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 50/60HZ

BFK3200A230

		max	mm²	10
	Flexible with insulated spade lug conducto			10
		min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing		allowable		Screw / DIN rail 35mm
Weight			g	400
Conductor section			9	100
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	2000000
EMC compatibility				yes
AC coil operating			V	220
Rated AC voltage at the AC operating voltage			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 %Us	20 55
AC average coil cons	sumption at 20°C	Παλ	/003	50
	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	7
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency			cycles/h	
Mechanical operation				

BFK3200A230 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



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR,

COIL 230VAC 50/60HZ

BFK3200A230

Operating times							
Average time for Us co							
	in AC						
		Closing NO				0	
				min	ms	8	
				max	ms	24	
		Opening NO		min	-	F	
				min	ms	5	
				max	ms	15	
		Closing NC		min	ms	9	
				max	ms	9 20	
UL technical data				Шал	1113	20	
General USE							
	Contactor						
			AC c	urrent	А	56	
Ambient conditions							
Temperature							
	Operating temperature	9					
				min	°C	-50	
				max	°C	70	
	Storage temperature						
				min	°C	-60	
				max	°C	80	
Max altitude					m	3000	
Resistance & Protection	on						
Pollution degree						3	
Dimensions [mm (in)]							
	4.6			125.5			
7.9 - (0	4.6 .57")		(	4.94")			7
(0.31")	۵ <sup>′</sup>	9.2		nn	กกกกก	Ω.	
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Wiring diagrams

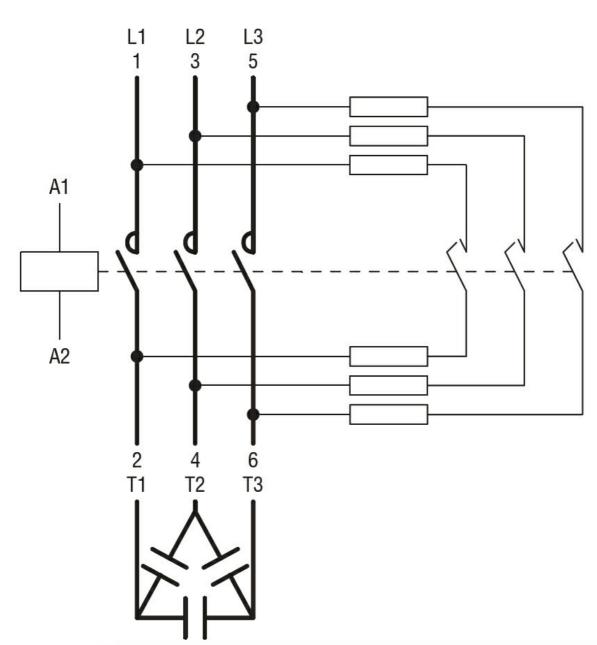
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BFK3200A230

- 35 (1.38")



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 50/60HZ



## Certifications and compliance

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Comp	nance

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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 400VAC 50/60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		A	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
	current for 10s (IEC/EN60947-1)		Α	320
Protection fuse				
		gG (IEC)	Α	63
Making capacity (RMS			Α	320
Breaking capacity at v	oltage			
		440V	А	256
		500V	А	240
		690V	Α	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
		lth	W	6
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	~	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	-	min	mm²	1

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CONTACTOR FC

BFK3200A400



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 400VAC 50/60HZ

max	mm²	10
Flexible with insulated spade lug conductor section		10
min	mm²	1
max	mm²	10
Power terminal protection according to IEC/EN 60529		IP20 when properly wired
Mechanical features		
Operating position		
normal allowable		Vertical plan ±30°
Fixing		Screw / DIN rail 35mm
Weight	g	400
Conductor section	9	400
AWG/kcmil conductor section		
max		6
Operations		
Mechanical life	cycles	2000000
Electrical life	cycles	1600000
Safety related data		
Performance level B10d according to EN/ISO 13489-1 rated load	avalaa	400000
mechanical load	cycles cycles	2000000
EMC compatibility	Cycles	yes
AC coil operating		,
Rated AC voltage at 50/60Hz	V	400
AC operating voltage		
of 50/60Hz coil powered at 50Hz		
pick-up	0/11-	0.0
min	%Us %Us	80 110
max drop-out	7005	110
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 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
of 60Hz coil powered at 60Hz	VA	7
in-rush	VA	75
holding	VA VA	9
Dissipation at holding ≤20°C 50Hz	W	2.5
Max cycles frequency		a da anti-

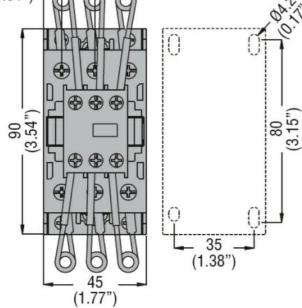


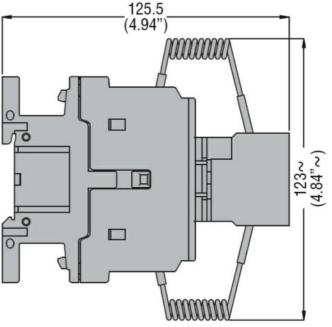
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR,

COIL 400VAC 50/60HZ

BFK3200A400

Operating times							
Average time for Us c	ontrol						
Average time for 05 G	in AC						
	III AC	Closing NO					
				min	ms	8	
						8 24	
		Opening NO		max	ms	24	
		Opening NO		min	-	5	
					ms		
				max	ms	15	
		Closing NC				0	
				min	ms	9	
				max	ms	20	
UL technical data							
General USE	<b>o</b> <i>i i</i>						
	Contactor					- 0	
A 1.1 A 114				AC current	А	56	
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	on						
Pollution degree						3	
Dimensions [mm (in)]							
	14.6			125.5			
7.9-1 - (0	.57")	1	4	(4.94")			٦
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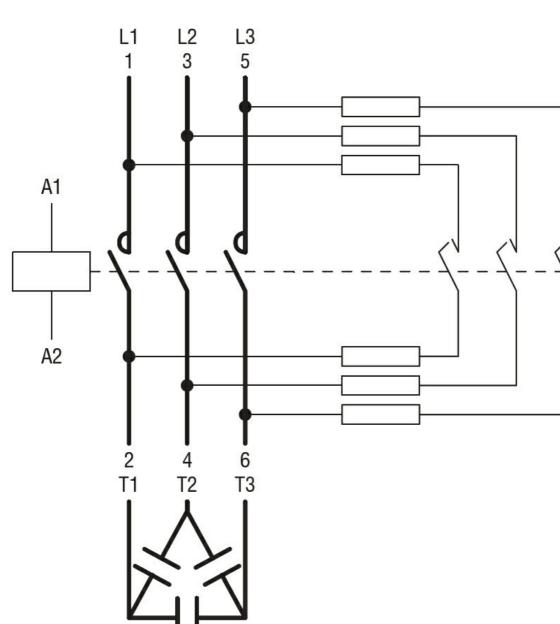


Wiring diagrams

BFK3200A400



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 400VAC 50/60HZ



#### Certifications and compliance

Compliance	
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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 60HZ



Product designation				Power contactor
Product type designat	ion			BFK32
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		А	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	Svalue)		А	320
Breaking capacity at v	oltage			
	-	440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
	· · · <u>-</u> · ·	Ith	W	6
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	2	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	-	min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 60HZ

			max	mm²	10
	Flexible with insulated s	pade lug conductor s			
			min	mm²	1
			max	mm²	10
· · · ·	tion according to IEC/EN	60529			IP20 when properly wired
Mechanical features					
Operating position					Martical alay
			normal allowable		Vertical plan ±30°
Fixing			allowable		Screw / DIN rail
					35mm
Weight				g	400
Conductor section	ANAC/kernil conductor o	action			
	AWG/kcmil conductor s	ection	max		6
Operations					С С
Mechanical life				cycles	2000000
Electrical life				cycles	1600000
Safety related data				-	
Performance level B1	0d according to EN/ISO 1	3489-1			
			rated load	cycles	400000
			mechanical load	cycles	2000000
EMC compatibility					yes
AC coil operating	011-			M	24
Rated AC voltage at 6 AC operating voltage	UHZ			V	24
AC operating voltage	of 60Hz coil powered at	60Hz			
	-	pick-up			
			min	%Us	80
			max	%Us	110
		drop-out		o ( ) . I	
			min	%Us	20
AC average coil consu	imption at 20°C		max	%Us	55
AU average coll const	of 60Hz coil powered at	60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding	≤20°C 50Hz		<u></u>	W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO	min	ms	8
			max	ms	o 24
		Opening NO	max	1115	<b>—</b> T
			min	ms	5
			max	ms	15
		Closing NC			
			min	ms	9
			max	ms	20
UL technical data					

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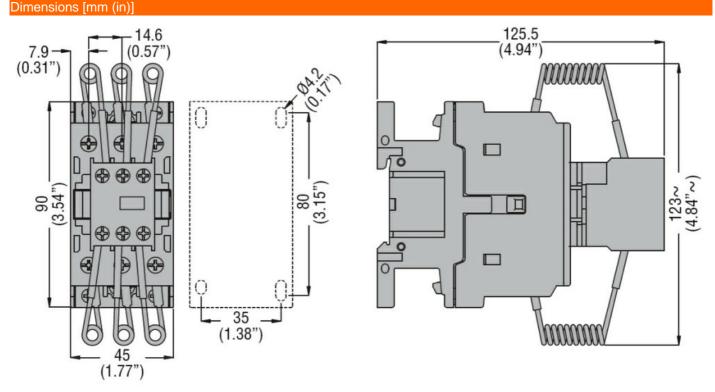
ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 60HZ

BFK3200A02460

#### General USE

	Contactor			
		AC current	А	56
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
Dimonoiono Imm (in)				

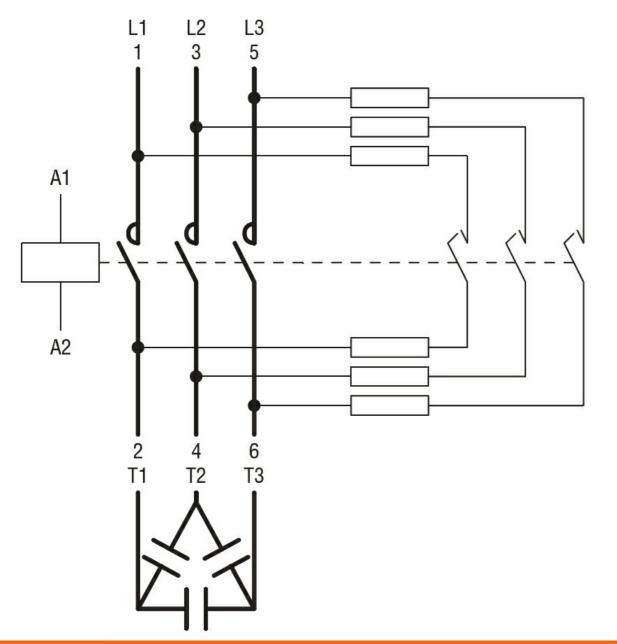


#### Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 24VAC 60HZ





#### Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 48VAC 60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S		N I.a	0
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta	- · ·		kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		A	56
Rated operational pov	ver AC-6b (T≤40°C)		_	
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
	current for 10s (IEC/EN60947-1)		A	320
Protection fuse				
		gG (IEC)	A	63
Making capacity (RMS			Α	320
Breaking capacity at v	oltage			
		440V	А	256
		500V	А	240
		690V	A	192
Resistance per pole (a			mΩ	2
Power dissipation per	pole (average value)			
		Ith	W	6
Tightening torque for t	terminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 48VAC 60HZ

	max	mm²	10
- 	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Power terminal protectio	n according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing	allowable		Screw / DIN rail 35mm
Weight		g	400
Conductor section		3	
	AWG/kcmil conductor section		
	max		6
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	1600000
Safety related data			
Performance level B10d	according to EN/ISO 13489-1		
	rated load	cycles	400000
	mechanical load	cycles	2000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60H	IZ	V	48
AC operating voltage			
(	of 60Hz coil powered at 60Hz		
	pick-up	0/11-	80
	min max	%Us %Us	80 110
	drop-out	/005	110
	min	%Us	20
	max	%Us	55
AC average coil consum			
	of 60Hz coil powered at 60Hz		
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤2	0°C 50Hz	W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us cont			
Ì	in AC		
	Closing NO	<b>PC 0</b>	0
	min	ms	8 24
	max Opening NO	ms	<u>۲</u> 4
	opening NO min	ms	5
	max	ms	5 15
	Closing NC	1113	.0
	min	ms	9
	max	ms	20
UL technical data			

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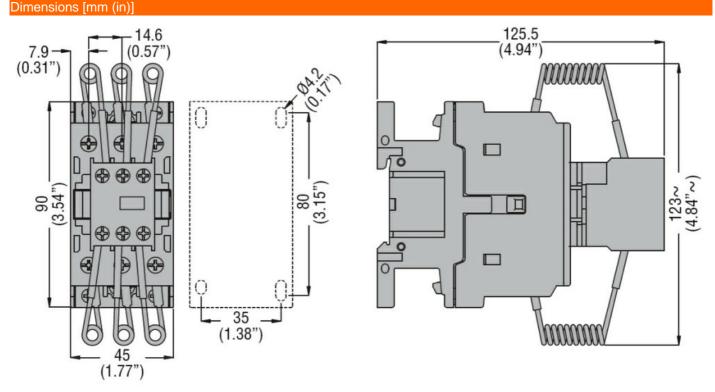
ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 48VAC 60HZ

BFK3200A04860

#### General USE

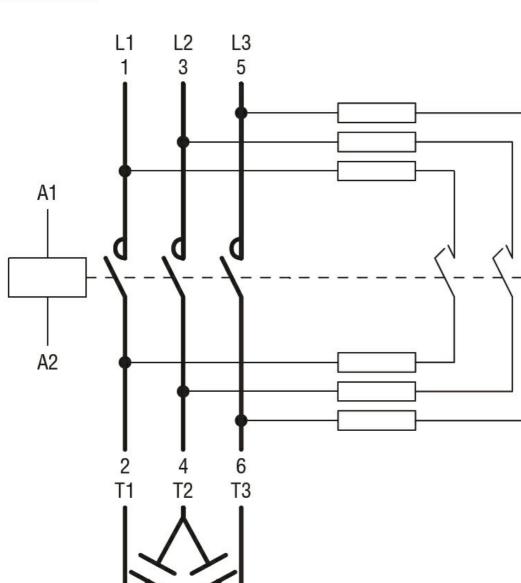
	Contactor			
		AC current	А	56
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimonoiono [mm (in)]				



#### Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 48VAC 60HZ



#### Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 120VAC 60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation volta			V	690
Rated impulse withsta			kV	6
Operational frequency	y			
		min	Hz	25
		max	Hz	400
	e air thermal current Ith		Α	56
Rated operational pov	wer AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable	current for 10s (IEC/EN60947-1)		А	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	S value)		А	320
Breaking capacity at v	voltage			
		440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
		Ith	W	6
Tightening torque for	terminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			-
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	max		. •
		min	mm²	1
		11111		ı

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 120VAC 60HZ

		max	mm²	10
	Flexible with insulated spade lug conductor section	max		
		min	mm²	1
		max	mm²	10
Power terminal protection	on according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position	_			Vertical plan
		ormal wable		Vertical plan ±30°
Fixing		Nabic		Screw / DIN rail 35mm
Weight			g	400
Conductor section			0	
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B10c	according to EN/ISO 13489-1			400000
		load	cycles	400000
	mechanica	I load	cycles	2000000
EMC compatibility AC coil operating				yes
Rated AC voltage at 60	47		V	120
AC operating voltage	12		v	120
	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 consum				
	of 60Hz coil powered at 60Hz		174	75
		h-rush	VA	75
Dissipation at holding ≤2		olding	VA W	9 2.5
Max cycles frequency			VV	2.0
Max cycles nequency Mechanical operation			cycles/h	3600
Operating times			0,000/11	
Average time for Us cor	ntrol			
•	in AC			
	Closing NO			
	-	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			0
		min	ms	9
UL technical data		max	ms	20

UL technical data

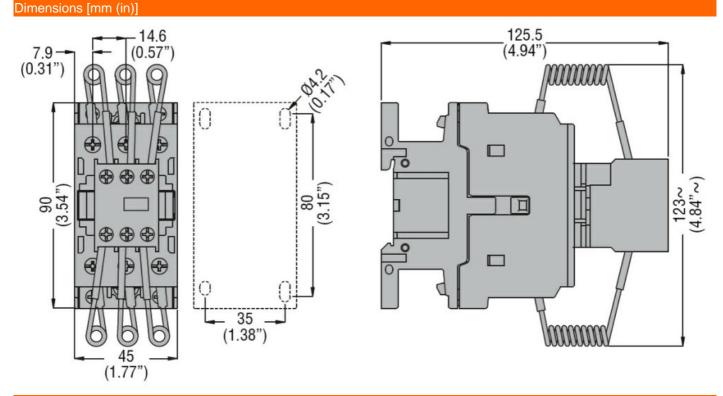
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ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 120VAC 60HZ

#### General USE

	Contactor			
		AC current	А	56
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	on			
Pollution degree				3

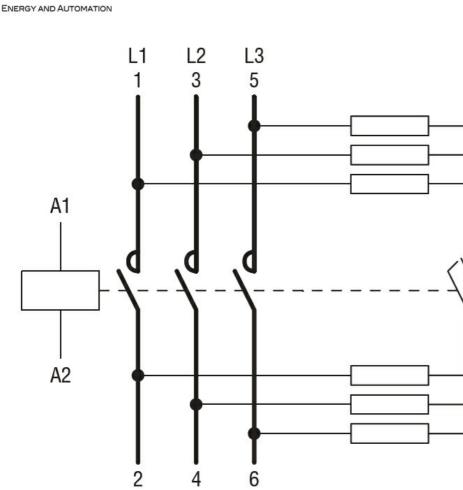


#### Wiring diagrams

# BFK3200A12060



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 120VAC 60HZ



## Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 220VAC 60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S		N I.a	<u>^</u>
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta	- · ·		kV	6
Operational frequency	/			
		min	Hz	25
<u></u>		max	Hz	400
	air thermal current Ith		A	56
Rated operational pov	wer AC-6b (1≤40°C)	0001/		
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
	current for 10s (IEC/EN60947-1)		A	320
Protection fuse		0 (150)		
		gG (IEC)	A	63
Making capacity (RMS			Α	320
Breaking capacity at v	oltage	44014		050
		440V	A	256
		500V	A	240
Desister seconds (		690V	A	192
Resistance per pole (a			mΩ	2
Power dissipation per	pole (average value)	14		2
		Ith	W	6
Tightening torque for t	terminals			- <b>-</b>
		min	Nm	2.5
		max	Nm	3
		min	Ibin	1.8
<b>T</b> 's 1 (s. s <sup>1</sup> ) (s. s) (s. s) (s. s)		max	lbin	2.2
Tightening torque for o	coli terminal		NL	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin Ibin	0.59
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			C
	Electric terror and a first state of the	max		6
	Flexible w/o lug conductor section			0.5
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			4
		min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 220VAC 60HZ

			2	4.0
	Elevitete with included an edge burger ductor an effect	max	mm²	10
	Flexible with insulated spade lug conductor section		m m <sup>2</sup>	4
		min max	mm² mm²	1 10
		Шал	111111	IP20 when
· · ·	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	400
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1		_	
		rated load	cycles	400000
	r	mechanical load	cycles	20000000
EMC compatibility				yes
AC coil operating			N /	000
Rated AC voltage at 60	UHZ		V	220
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	Шах	/003	110
		min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			
J	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
Operating times				
Average time for Us co				
	in AC			
	Closing NO	<u>-</u>		•
		min	ms	8
		max	ms	24
	Opening NO			<i>r</i>
		min	ms	5
		max	ms	15
	Closing NC	min	ms	9
		max	ms	9 20
UL technical data		Пах	110	_~

UL technical data

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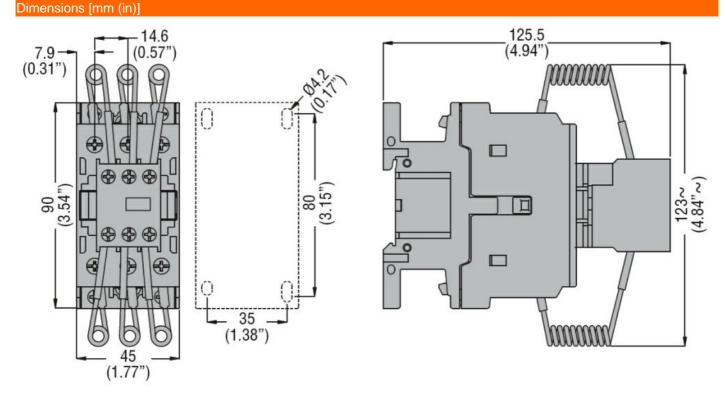
ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 220VAC 60HZ

BFK3200A22060

#### General USE

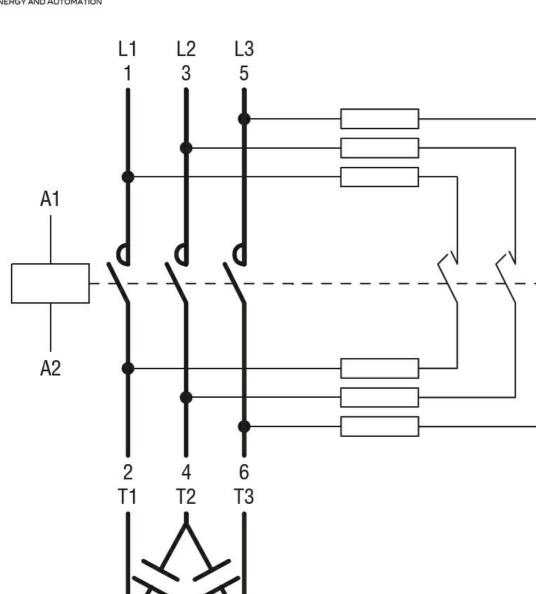
	Contactor			
		AC current	А	56
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3



#### Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 220VAC 60HZ



#### Certifications and compliance

Comp	liance
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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency	ý l			
		min	Hz	25
		max	Hz	400
	e air thermal current Ith		А	56
Rated operational pov	wer AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
	current for 10s (IEC/EN60947-1)		Α	320
Protection fuse				
		gG (IEC)	Α	63
Making capacity (RMS	S value)		Α	320
Breaking capacity at v	voltage			
		440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
		lth	W	6
Tightening torque for t	terminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	-	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	-	min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ

	may	mm²	10
			10
	min	mm²	1
	max	•	10
Power terminal protec	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	400
Conductor section		-	
	AWG/kcmil conductor section		
	max		6
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	1600000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load		400000
	mechanical load	cycles	2000000
EMC compatibility			yes
AC coil operating		λ/	000
Rated AC voltage at 6	UHZ	V	230
AC operating voltage	of COLLE and neuronal at COLLE		
	of 60Hz coil powered at 60Hz pick-up		
	pick-up min	%Us	80
	max		110
	drop-out	/000	110
	min	%Us	20
	max		55
AC average coil consu			
0	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
Operating times			
Average time for Us c			
	in AC		
	Closing NO		0
	min		8
	max Opening NO	ms	24
	Opening NO	<b>m</b> -	5
	min		5 15
	max Closing NC	ms	10
	min	ms	9
	max		20
UL technical data			-

UL technical data

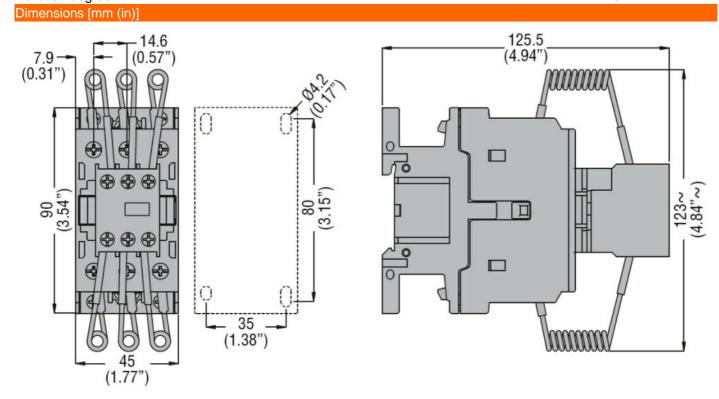
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ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ

### General USE

	Contactor			
		AC current	А	56
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

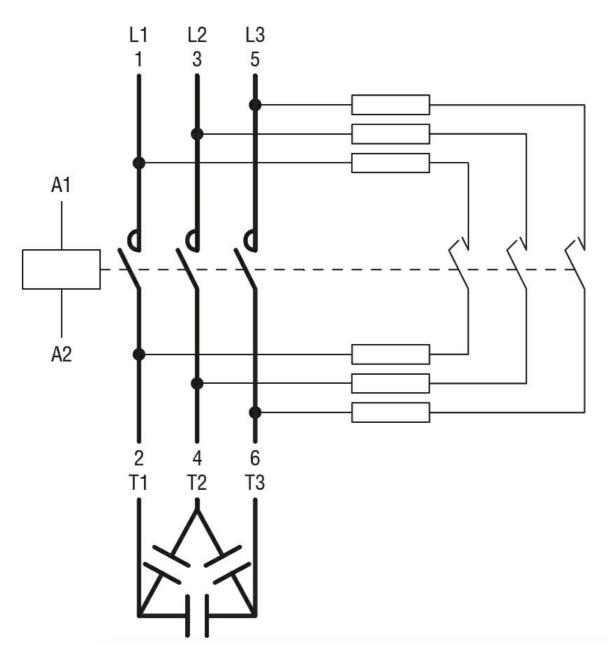


#### Wiring diagrams

## BFK3200A23060



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ



# Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 460VAC 60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			-
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency	1			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		A	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	S value)		А	320
Breaking capacity at v	oltage			
		440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	pole (average value)			
		lth	W	6
Tightening torque for t	erminals			
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	max		
		min	mm²	1
		111111		

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 460VAC 60HZ

	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Power terminal protec	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
	allowable		±30 Screw / DIN rail
Fixing			35mm
Weight		g	400
Conductor section			
	AWG/kcmil conductor section		
0	max		6
Operations Machanical life		0, 101	20000000
Mechanical life Electrical life		cycles	2000000
Safety related data		cycles	1600000
	0d according to EN/ISO 13489-1		
r enormance level Div	rated load	cycles	400000
	mechanical load	cycles	20000000
EMC compatibility		0,0.00	yes
AC coil operating			,
Rated AC voltage at 6	OHz	V	460
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out	0/11-	0.0
	min	%Us	20
AC average coil consu	max	%Us	55
AC average con const	of 60Hz coil powered at 60Hz		
	in-rush	VA	75
	holding	VA	9
Dissipation at holding		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	ontrol		
	in AC		
	Closing NO		
	min	ms	8
	max Opening NO	ms	24
	Opening NO	<b>m</b> c	5
	min	ms ms	5 15
	Closing NC	ms	10
	min	ms	9
	max	ms	20
UL technical data		-	

UL technical data

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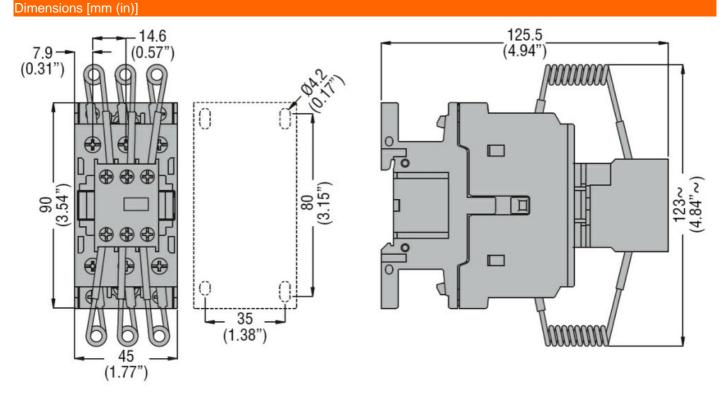
ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 460VAC 60HZ

BFK3200A46060

### General USE

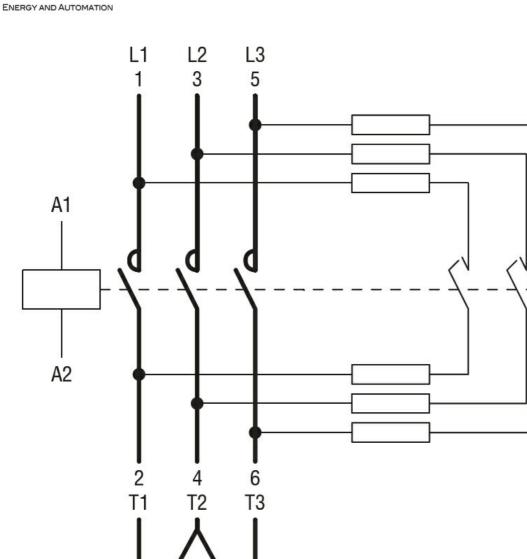
	Contactor			
		AC current	А	56
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3



#### Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 460VAC 60HZ



## Certifications and compliance

Complia	ince
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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 575VAC 60HZ



Product designation				Power contactor
Product type designat				BFK32
Contact characteristic	S			-
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free			А	56
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	14
		400V	kvar	25
		440480V	kvar	27.5
		690V	kvar	30
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	320
Protection fuse				
		gG (IEC)	А	63
Making capacity (RMS	s value)		А	320
Breaking capacity at v	oltage			
		440V	А	256
		500V	А	240
		690V	А	192
Resistance per pole (a	average value)		mΩ	2
Power dissipation per	• · · ·			
		lth	W	6
Tightening torque for t	erminals			
5 5 1		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
		max	Ibin	0.74
Max number of wires	simultaneously connectable	max	Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section	max		~
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	max	11111	10
		min	mm <sup>2</sup>	1
		min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 575VAC 60HZ

	max	mm²	10
	Flexible with insulated spade lug conductor section		10
	min	mm²	1
	max	mm²	10
Power terminal protect	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan
Fixing	allowable		±30° Screw / DIN rail
			35mm
Weight		g	400
Conductor section	AWG/kcmil conductor section		
	AVVG/KCMII conductor section max		6
Operations			~
Mechanical life		cycles	2000000
Electrical life		cycles	1600000
Safety related data		,	
Performance level B10	0d according to EN/ISO 13489-1		
	rated load	cycles	400000
	mechanical load	cycles	2000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60	OHz	V	575
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up min	%Us	80
	max	%Us	110
	drop-out	/000	110
	min	%Us	20
	max	%Us	55
AC average coil consu	imption at 20°C		
	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		//	0000
Mechanical operation		cycles/h	3600
Operating times Average time for Us co	ontrol		
Average lime for 05 c	in AC		
	Closing NO		
	min	ms	8
	max	ms	24
	Opening NO		
	min	ms	5
	max	ms	15
	Closing NC		_
	min	ms	9
UL technical data	max	ms	20

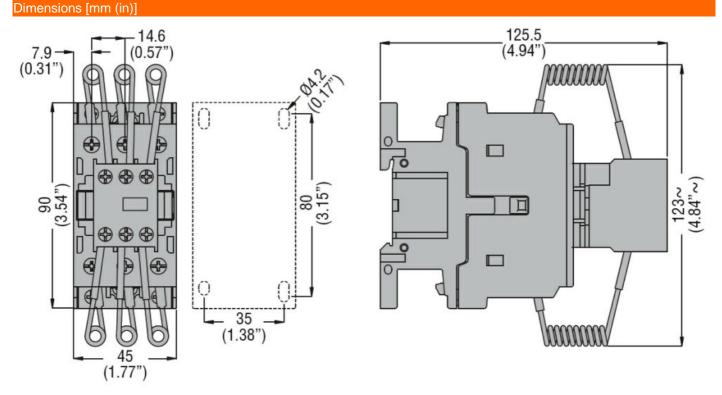
UL technical data

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 575VAC 60HZ

### General USE

	Contactor			
		AC current	А	56
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	on			
Pollution degree				3

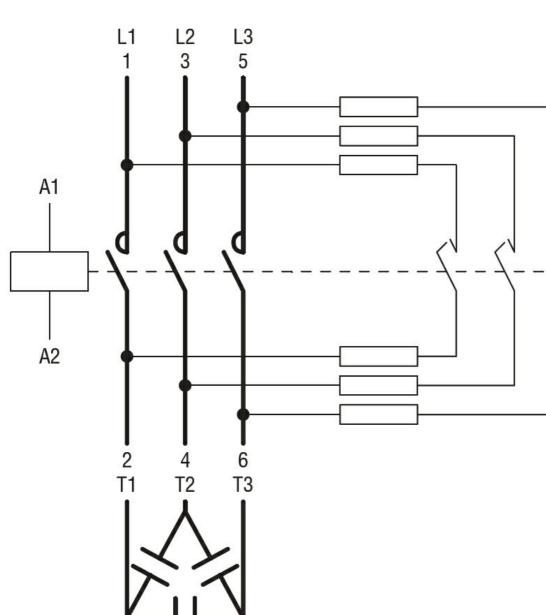


#### Wiring diagrams

## BFK3200A57560



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 575VAC 60HZ



## Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor