



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK115
Contact characteristics		N In	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
150.0	max	Hz	400
IEC Conventional free air thermal current Ith		Α	160
Rated operational power AC-6b (T≤40°C)	0001		
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
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		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			





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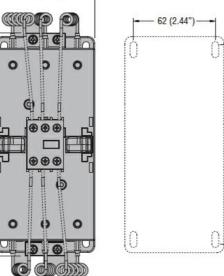
	max	mm²	70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features Operating position			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	2095
Conductor section			
AWG/kcmil conductor section			
	max		2/0
Operations			4.700000
Mechanical life		cycles	15000000
Electrical life		cycles	1200000
Safety related data Performance level B10d according to EN/ISO 13489-1			
r enormance level brod according to E14/13O 13469-1	rated load	cycles	400000
	mechanical load	cycles	1500000
EMC compatibility	THOUSE HOUSE	0,0.00	yes
AC coil operating			,
Rated AC voltage at 50/60Hz		V	24
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out		0/11-	00
	min	%Us %Us	20 55
of 50/60Hz coil powered at 60Hz	max	/605	55
pick-up			
ριοίτ αφ	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	40
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	holding	VA	20
of 50/60Hz coil powered at 60Hz	ton one of	\ / ^	200
	in-rush	VA VA	300 17
of 60Hz coil powered at 60Hz	holding	VA	1 /
oi ooi iz ooii powered at ooi iz	in-rush	VA	300
	holding	VA	20
Dissipation at holding ≤20°C 50Hz	9	W	6.5
Max cycles frequency			
Mechanical operation		cycles/h	1500
Operating times			
Average time for Us control			
in AC			
Closing NO			4.0
	min	ms	16



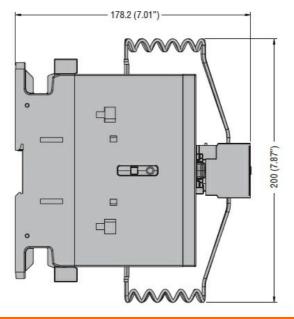
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 50/60HZ

	Opening NO	max	ms	32	
		min	ms	9	
			max	ms	24
UL technical data			max		
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			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)]					





151 (5.94")



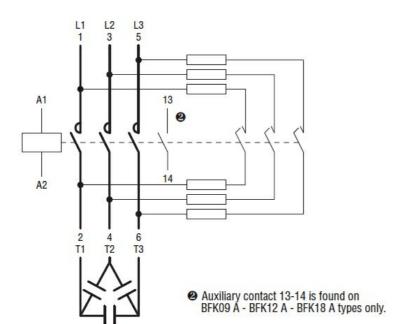
Wiring diagrams

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ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 50/60HZ



Certifications and compliance

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

BFK11500A024





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 50/60HZ



Product designation			Power contactor
Product type designation Contact characteristics			BFK115
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
·		ΚV	0
Operational frequency	min	U⇒	25
	min	Hz	25
IFO Occupational for a Sall annual annual III	max	Hz	400
IEC Conventional free air thermal current Ith		Α	160
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, , , , , , , , , , , , , , , , , , ,	Ith	W	11.5
Tightening torque for terminals			
Tightoning to quo for tominate	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal	IIIax	IDIII	J.Z
rightening torque for conteminal	min	Nimo	0.0
	min	Nm Næ	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			2.42
<u> </u>	max		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			





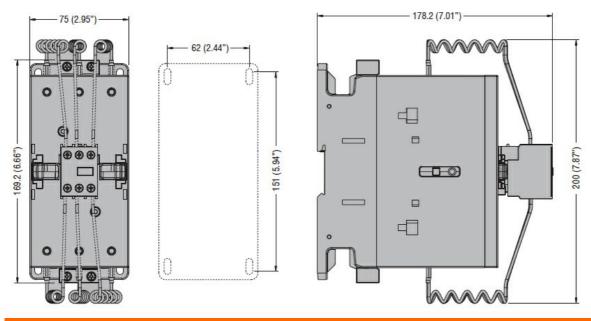
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 50/60HZ

Power terminal protection according to IEC/EN 60529 P20 front Mechanical floatures P20 front Mechanical floatures P20 front P20			max	mm²	70
Persisting position		tion according to IEC/EN 60529			IP20 front
Prixing Pri					
Screw JOIN rail Screw JOIN	Operating position				
Neight Section Secti					
Conductor section	Fixing				
Conductor section AWG/kcmil conductor section max 2/0	Weight			g	2095
Mechanical life	Conductor section			_	
Operations Mechanical life cycles 15000000 Electrical life cycles 1200000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load or cycles 400000 cycles 400000 cycles 150000000 15000000 150000000 150000000<		AWG/kcmil conductor section			
Mechanical life			max		2/0
Electrical life	· ·				
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 150000000 150000000 150000000 1500000000 1500000000 15000000000 150000000000				cycles	
Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 (cycles) 400000 (cycles) 400000 (cycles) 400000 (cycles) 400000 (cycles) 45000000 20000000 2000000 2000000 2000000 2000000 2000000 20000000 20000000 20000000 20000000 2000000000 200000000 20000000000 20000000000 20000000000 20000000000 20000000000 200000000000 20000000000 200000000000 2000000000000000 200000000000000 2000000000000000 200000000000000000 2000000000000000000000000 200000000000000000000000 20000000000000000000000000 2000000000000000000000000000000000000				cycles	1200000
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz Final drop-out AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min wull wull wull wull wull wull wull wul	•				
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up AC operating voltage of 50/60Hz coil powered at 60Hz pick-up and before the coil operating voltage of 50/60Hz coil powered at 60Hz pick-up and before the coil powered at 60Hz and before the coil powered at 50Hz and 50/60Hz coil powered at 50Hz before the coil powered at 50Hz and 50/60Hz coil powered at 50Hz before the coil powered the coil powered at 50Hz and 50/60Hz coil powered at 60Hz before the coil powered the	Performance level B10	0d according to EN/ISO 13489-1			
EMC compatibility yes AC coil operating AC coil operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz in-rush VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation Closing NO				-	
AC coll operating Rated AC voltage at 50/60Hz V 48 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max %Us 80 max max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max pick-up min %Us 85 max max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz holding VA 20 AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO Average time for Us control	EMO (199		mechanical load	cycles	
Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max max mus max mus					yes
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 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding <20°C 50Hz Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO		0/60U=		W	40
of 50/60Hz coil powered at 50Hz pick-up min min		U/6UHZ		V	40
Pick-up min Mus 80 max Mus 110 Mus	AC operating voitage	of 50/60Hz coil powered at 50Hz			
Min Wils 110 Wils Wils Wils 110 Wils Wil		·			
Max Mus 110 Mus 20 Mus 55		ριοκ αρ	min	%Us	80
drop-out min					
Max Mus 20 10 10 10 10 10 10 10		drop-out		,,,,,	
of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz in-rush VA 20 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO		•	min	%Us	20
Pick-up min %Us 85 max %Us 110			max	%Us	55
min max MUs 85 max MUs 110		of 50/60Hz coil powered at 60Hz			
Max WUs 110 Min Mus 40 Min Mus 55		pick-up			
AC average coil consumption at 20°C Of 50/60Hz coil powered at 50Hz Nolding VA 20			min		85
min max %Us but with state of the sta			max	%Us	110
Max %Us 55		drop-out			
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO					
of 50/60Hz coil powered at 50Hz holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at h			max	%Us	55
holding VA 20	AC average coil consu				
of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO		oi bu/bumz coii powered at 50Hz	holding	\/^	20
in-rush holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO		of 50/60Hz coil powered at 60Hz	noiding	VA	20
holding VA 17		or solouriz con powered at 60Hz	in-ruch	\/Δ	300
of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO					
in-rush holding VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO		of 60Hz coil powered at 60Hz	noiding	*/ 1	··
holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Wechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO			in-rush	VA	300
Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO					
Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO	Dissipation at holding	≤20°C 50Hz	<u> </u>		
Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO					
Average time for Us control in AC Closing NO				cycles/h	1500
in AC Closing NO	Operating times				
Closing NO	Average time for Us co	ontrol			
· · · · · · · · · · · · · · · · · · ·					
min ms 16		Closing NO			
			min	ms	16



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 50/60HZ

		0 1 110	max	ms	32
		Opening NO	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			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)]					

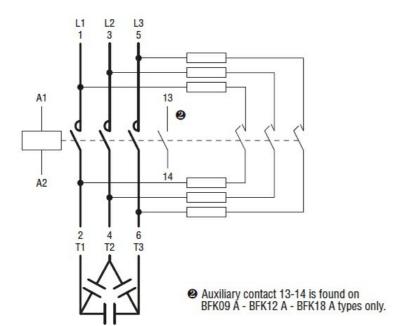


Wiring diagrams



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 50/60HZ



Certifications and compliance

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





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 110VAC 50/60HZ



Product designation Product type designation	tion			Power contactor BFK115
Contact characteristic				DIKITO
Number of poles			Nr.	3
Rated insulation volta	ge Hi JEC/EN		V	690
Rated impulse withsta	-		kV	8
Operational frequency			N V	0
Operational frequency	y	min	Hz	25
		min	⊓∠ Hz	400
IEC Conventional free	e air thermal current Ith	max	<u>П</u> 2	160
			A	100
Rated operational pov	wer AC-60 (1540 C)	0001/	1	4.5
		230V	kvar	45
		400V	kvar	75
		440480V	kvar	85
		690V	kvar	135
	current for 10s (IEC/EN60947-1)		A	920
Protection fuse				
		gG (IEC)	Α	160
Making capacity (RMS	S value)		Α	1500
Breaking capacity at v	voltage			_
		440V	Α	1200
		500V	Α	850
		690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per	pole (average value)			
	,	lth	W	11.5
Tightening torque for	terminals			
		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	lbin	5.2
Tightening torque for	coil terminal	IIIax	10111	0.2
rightening torque for	oon torriiriai	min	Nm	0.8
			Nm	0.6 1
		max	Ibin	0.59
		min		
May a wal ar of wires	simultana sushi sanna atakla	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	ANA/O/I/			
	AWG/Kcmil			0/0
		max		2/0
	Flexible w/o lug conductor section		_	
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5





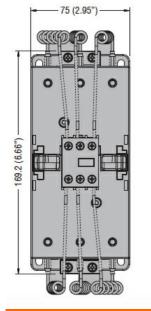
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 110VAC 50/60HZ

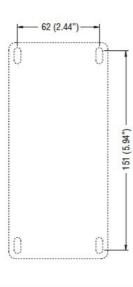
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2095
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	2/2011			440
Rated AC voltage at 50	0/60Hz		V	110
AC operating voltage	(= 2 / 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	0/116	80
		min	%Us %Us	110
	drop out	max	%US	110
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	тих	7000	
	pick-up			
	Provide	min	%Us	85
		max	%Us	110
	drop-out			
	•	min	%Us	40
		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	17
	of 60Hz coil powered at 60Hz		3.75	000
		in-rush	VA	300
Dissipation of Lot 19	<20°C FOLI-	holding	VA	20
Dissipation at holding:	≥∠U U ƏUHZ		W	6.5
Max cycles frequency			ovoloo/b	1500
Mechanical operation			cycles/h	1300
Operating times	antrol			
Average time for Us co	in AC			
	Closing NO			
	Ciosing NO	min	ms	16
		111111	1110	

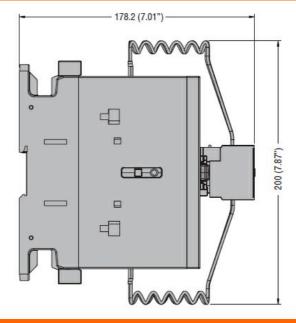


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 110VAC 50/60HZ

	Opening NO	Opening NO	max	ms	32
	Gpelling 1.0		min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			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)]					





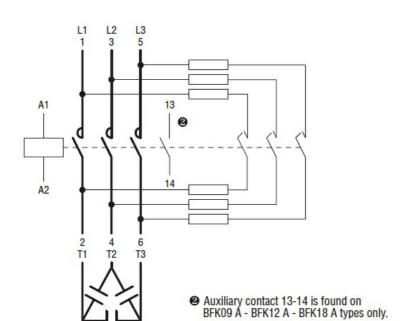


Wiring diagrams



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 110VAC 50/60HZ



Certifications and compliance

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





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 50/60HZ



Product designation			Power contactor
Product type designation Contact characteristics			BFK115
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
·		ΚV	0
Operational frequency	min	U⇒	25
	min	Hz	25
IFO Occupational for a Sall constraint and III	max	Hz	400
IEC Conventional free air thermal current Ith		Α	160
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, , , , , , , , , , , , , , , , , , ,	Ith	W	11.5
Tightening torque for terminals			
Tightoning to quo for tominate	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal	IIIax	IDIII	J.Z
rightening torque for conteminal	min	Nimo	0.0
	min	Nm Næ	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			2.42
<u> </u>	max		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			





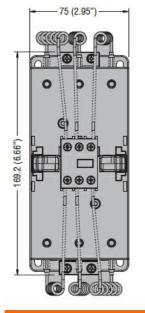
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 50/60HZ

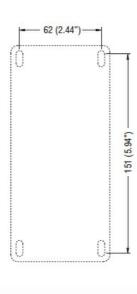
Power terminal protection according to IEC/EN 60529 IP20 front			max	mm²	70
Departing position	Power terminal protect	tion according to IEC/EN 60529			IP20 front
Pricting	Mechanical features				
Fixing	Operating position				
Screw / DIN rail 35mm Weight 9 2095					
Weight g 2095 Conductor section AWG/kcmil conductor section AWG/kcmil conductor section AWG/kcmil conductor section AWG/kcmil conductor section			allowable		
Conductor section AWG/kcmil conductor section max 2/0	Fixing				
AWG/kemil conductor section max	Weight			g	2095
Mechanical life	Conductor section				
Operations Mechanical life cycles 15000000 Safety rolated data Performance level B10d according to EN/ISO 13489-1 rated load experience in the property of the propert		AWG/kcmil conductor section			
Mechanical life			max		2/0
Electrical life	Operations				
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 mechanical load cycles 15000000	Mechanical life			cycles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load repeated at 5000000 cycles 400000 (cycles 15000000) EMC compatibility yes AC coperating V 230 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min max %Us 110 drop-out min max %Us 110 drop-out min max %Us 110 drop-out min max				cycles	1200000
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz Rote of 50/60Hz coil powered at 50Hz pick-up AC operating voltage of 50/60Hz coil powered at 60Hz pick-up of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 50/60Hz coil	Safety related data				
EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out min	Performance level B10	0d according to EN/ISO 13489-1			
EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO				•	
AC coll operating Rated AC voltage at 50/60Hz Of 50/60Hz coil powered at 50Hz pick-up min yuls 80 max yuls 110 drop-out min yuls 20 max yuls 55 of 50/60Hz coil powered at 60Hz pick-up pick-up min yuls 85 max yuls 110 drop-out min yuls 40 max yuls 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz holding VA 20 of 50/60Hz coil powered at 60Hz in-rush yul 300 holding yul 17 of 60Hz coil powered at 60Hz in-rush yul 300 holding yul 20 bissipation at holding ≤20°C 50Hz w 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC			mechanical load	cycles	15000000
Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max wus wus 110 drop-out min wus wus 55 of 50/60Hz coil powered at 60Hz pick-up pick-up min wus wus 55 min wus wus 110 wus 85 max wus 110 drop-out min wus wus 85 max wus 110 drop-out min wus wus 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz holding wus 20° of 50/60Hz coil powered at 60Hz in-rush wus 300 holding wus 17 of 60Hz coil powered at 60Hz in-rush wus 300 holding wus 20° Dissipation at holding ≤20°C 50Hz wus 6.5 Max cycles frequency wus 6.5 Mechanical operation cycles/h 1500 Operating times Closing NO wus 6.5					yes
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 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO					
of 50/60Hz coil powered at 50Hz pick-up min wull 80		0/60Hz		V	230
Pick-up min	AC operating voltage				
Max Mus		•			
drop-out		pick-up		0/11	0.0
drop-out min %Us 20 max %Us 55					
min		deservant	max	%US	110
Max Mus 55		arop-out	min	0/116	20
of 50/60Hz coil powered at 60Hz					
Pick-up Min %Us 85 Max %Us 110 Morp-out Min %Us 40 Morp-out		of 50/60Hz coil powered at 60Hz	IIIdX	/005	55
Max cycles frequency Max cycles frequenc		•			
Max Mus 110		ρισκ-αρ	min	% le	85
AC average coil consumption at 20°C Of 50/60Hz coil powered at 50Hz Nolding VA 20					
min max %Us 40 max 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO		drop-out	тах	7000	110
Max %Us 55		3. op 34.	min	%Us	40
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO					
of 50/60Hz coil powered at 50Hz holding	AC average coil consu	imption at 20°C			
holding VA 20	Ŭ				
of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO		·	holding	VA	20
in-rush VA 300 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO		of 50/60Hz coil powered at 60Hz	<u> </u>		
of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO		·	in-rush	VA	300
in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO			holding	VA	17
holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Wechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO		of 60Hz coil powered at 60Hz			
Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO			in-rush	VA	300
Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO	-		holding		
Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO		≤20°C 50Hz		W	6.5
Operating times Average time for Us control in AC Closing NO					
Average time for Us control in AC Closing NO				cycles/h	1500
in AC Closing NO					
Closing NO	Average time for Us co				
· · · · · · · · · · · · · · · · · · ·					
min ms 16		Closing NO			4.0
			min	ms	16

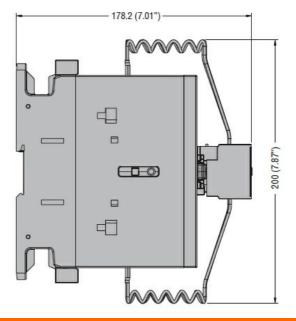


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, **COIL 230VAC 50/60HZ**

			max	ms	32
		Opening NO		ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
•	Operating temperature				
			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)]					





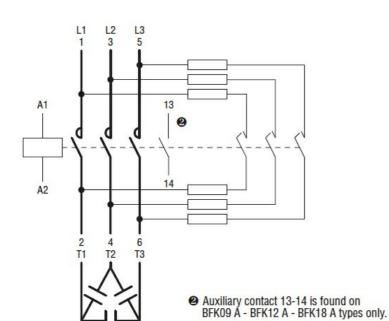


Wiring diagrams



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 50/60HZ



Certifications and compliance

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

BFK11500A230





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 400VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK115
Contact characteristics		N I -	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
150.0	max	Hz	400
IEC Conventional free air thermal current Ith		Α	160
Rated operational power AC-6b (T≤40°C)	0001		
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
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		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Electrical Language Control			
Flexible c/w lug conductor section			





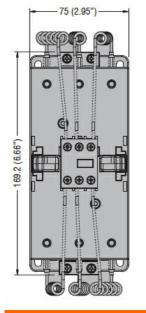
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, **COIL 400VAC 50/60HZ**

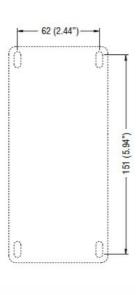
		max	mm²	70
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2095
Conductor section			<u> </u>	
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	400
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
	draw aut	max	%Us	110
	drop-out	min	0/116	20
		min	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	max	/005	33
	pick-up			
	plot up	min	%Us	85
		max	%Us	110
	drop-out		,,,,	
	-1	min	%Us	40
		max	%Us	55
AC average coil consu	ımption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
District of the LP	400°0 FOLL	holding	VA	20
Dissipation at holding:	≤20°C 50Hz		W	6.5
Max cycles frequency			avels://	1500
Mechanical operation			cycles/h	1500
Operating times	and the l			
Average time for Us co				
	in AC			
	Closing NO	min	me	16
		111111	ms	10

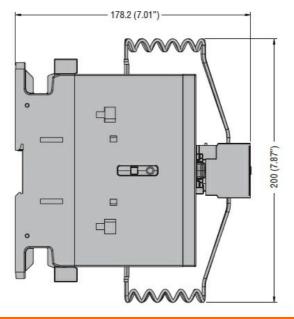


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, **COIL 400VAC 50/60HZ**

		0 1 110	max	ms	32
		Opening NO	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
•	Operating temperature				
			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)]					





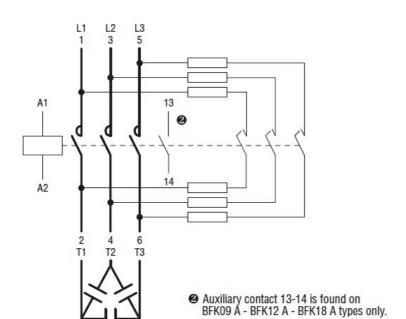


Wiring diagrams



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 400VAC 50/60HZ



Certifications and compliance

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

BFK11500A400



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 60HZ



Product designation			Power contactor
Product type designation			BFK115
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		Α	160
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)	90 (.20)	A	1500
Breaking capacity at voltage		,,	1000
breaking dapatoky at voltage	440V	Α	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)	090 V	mΩ	0.45
		11122	0.45
Power dissipation per pole (average value)	1.1	147	44.5
	Ith	W	11.5
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2/0
Flexible w/o lug conductor section			
v	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			
	min	mm²	1.5





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 60HZ

Power terminal protection according to IEC/EN 60529 Mechanical features	es 1200000 es 400000 yes
Operating position normal allowable Fixing Weight Conductor section AWG/kcmil conductor section max Operations Mechanical life Cycle Electrical life Cycle Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	±30° Screw / DIN rail 35mm 2095 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/
Fixing Weight g Conductor section AWG/kcmil conductor section Mechanical life cycle Electrical life cycle Safety related data Performance level B10d according to EN/ISO 13489-1 Fated load cycle mechanical load cycle mechanical load cycle mechanical load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz	±30° Screw / DIN rail 35mm 2095 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/
Fixing Weight g Conductor section AWG/kcmil conductor section max Operations Mechanical life cycle Electrical life cycle Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	Screw / DIN rail 35mm 2095 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/0
Conductor section AWG/kcmil conductor section max Operations Mechanical life cycle Electrical life cycle Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	2/0 es 15000000 es 1200000 es 400000 es 15000000 yes
AWG/kcmil conductor section max Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle mechanical load cycle for mechanic	es 15000000 es 1200000 es 400000 es 15000000 yes
Operations Mechanical life cycle Electrical life cycle Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle mechanical load cycle factor operating Rated AC voltage at 60Hz V	es 15000000 es 1200000 es 400000 es 15000000 yes
Mechanical life cycle Electrical life cycle Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	es 1200000 es 400000 yes
Electrical life cycle Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	es 1200000 es 400000 yes
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	es 400000 es 15000000 yes
Performance level B10d according to EN/ISO 13489-1 rated load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	es 15000000 yes
rated load cycle mechanical load cycle EMC compatibility AC coil operating Rated AC voltage at 60Hz V	es 15000000 yes
EMC compatibility AC coil operating Rated AC voltage at 60Hz mechanical load cycle V	es 15000000 yes
EMC compatibility AC coil operating Rated AC voltage at 60Hz V	yes
AC coil operating Rated AC voltage at 60Hz V	
Rated AC voltage at 60Hz V	
AC operating voltage	24
of 60Hz coil powered at 60Hz	
pick-up	
min %U	
max %U	s 110
drop-out	
min %U:	
max %U	s 55
Max cycles frequency	/b 4500
	s/h 1500
Operating times	
Average time for Us control	
in AC Closing NO	
	16
min ms max ms	
Opening NO	0 <u>2</u>
min ms	9
max ms	
UL technical data	<u>-</u> :
General USE	
Contactor	
AC current A	160
Ambient conditions	
Temperature	
Operating temperature	
min °C	-50
max °C	
Storage temperature	
min °C	-60
max °C	
Max altitude m	3000

3



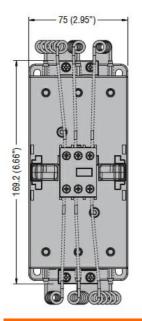
ENERGY AND AUTOMATION

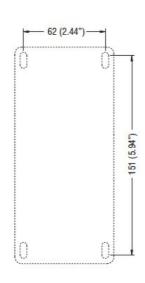
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 60HZ

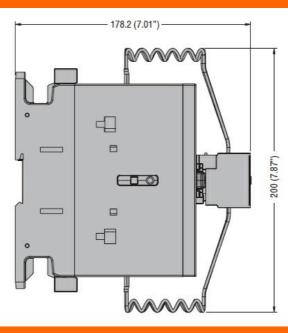
Resistance & Protection

Pollution degree

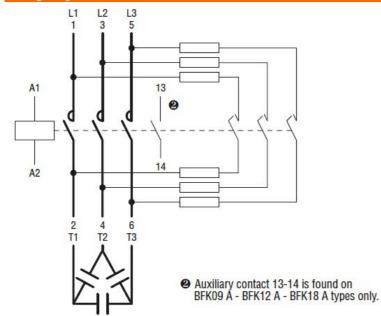
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



BFK11500A02460

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 60HZ

ETIM 8.0



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 60HZ



Product designation			Power contactor
Product type designation			BFK115
Contact characteristics		N I a	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
150.0	max	Hz	400
IEC Conventional free air thermal current Ith		Α	160
Rated operational power AC-6b (T≤40°C)	0001		
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
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		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Electrical Language Control			
Flexible c/w lug conductor section			





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 60HZ

			max	mm²	70
-	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position			normal		Vertical plan
Fixing			allowable		±30° Screw / DIN rail 35mm
Weight				g	2095
Conductor section				<u> </u>	
	AWG/kcmil conductor	section	max		2/0
Operations			21		
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 60	0Hz			V	48
AC operating voltage					
	of 60Hz coil powered a				
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out	•	0/11-	00
			min	%Us %Us	20 55
Max cycles frequency			max	%US	55
Mechanical operation				cycles/h	1500
Operating times				Cycles/11	1300
Average time for Us co	ontrol				
7.Wordge time for 05 oc	in AC				
		Closing NO			
		5.00mg 110	min	ms	16
			max	ms	32
		Opening NO		-	
		. •	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
	-		max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000

3



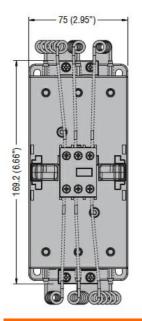
ENERGY AND AUTOMATION

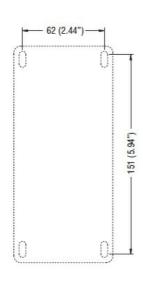
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 60HZ

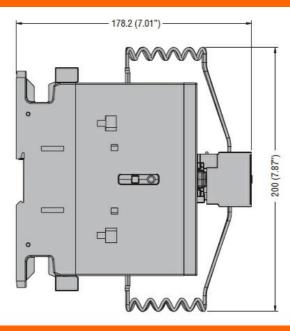
Resistance & Protection

Pollution degree

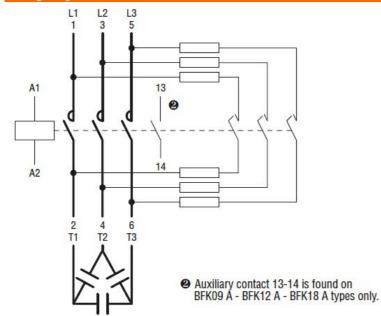
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



BFK11500A04860

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 48VAC 60HZ

ETIM 8.0



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 120VAC 60HZ



Product designation				Power contactor
Product type designa				BFK115
Contact characteristic	es en			
Number of poles			Nr.	3
Rated insulation volta	ge Ui IEC/EN		V	690
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequency	у			_
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	160
Rated operational por	wer AC-6b (T≤40°C)			
	,	230V	kvar	45
		400V	kvar	75
		440480V	kvar	85
		690V	kvar	135
Short-time allowable	current for 10s (IEC/EN60947-1)		Α	920
Protection fuse	,			
		gG (IEC)	Α	160
Making capacity (RMS	S value)	90 (120)	A	1500
Breaking capacity at v				1000
Broaking capacity at t	rollago	440V	Α	1200
		500V	A	850
		690V	A	905
Resistance per pole (average value)	0001	mΩ	0.45
	pole (average value)		11132	0.10
i ower alsospation per	pole (average value)	Ith	W	11.5
Tightening torque for	terminals	101	V V	11.0
riginterning torque for	terrinais	min	Nm	6
		max	Nm	7
		min	Ibin	4.4
			Ibin	5.2
Tightoning torque for	anil tarminal	max	IDIII	5.2
Tightening torque for	COII LETTIIITAI		Nima	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
Max accept an afronian	simultana ayah yanna at-t-t-	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AVAIQ/IZ 'I			
	AWG/Kcmil			0.40
	El al Caracteria	max		2/0
	Flexible w/o lug conductor section		•	
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section		_	
		min	mm²	1.5





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 120VAC 60HZ

			max	mm²	70
	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail 35mm
Weight				g	2095
Conductor section					
	AWG/kcmil conductor	section	max		2/0
Operations			Παλ		2/0
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data				Oyolo3	1200000
	0d according to EN/ISO	13489-1			
	od dooording to Environ		rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				,	yes
AC coil operating					
Rated AC voltage at 6	0Hz			V	120
AC operating voltage					
	of 60Hz coil powered a	t 60Hz			
	'	pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
III to obvioul data			max	ms	24
UL technical data					
General USE	Contactor				
	Contactor		A C	Λ	160
Ambient conditions			AC current	Α	160
Temperature	Operating temperature				
	Operating temperature		min	°C	-50
				°C	-50 70
	Storage temperature		max	U	<i>i</i> U
	Storage temperature		min	°C	-60
			max	°C	80
Max altitude			IIIdA	m	3000
IVIAN AIIIUUG				- 111	0000

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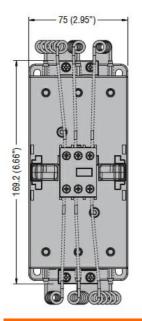
ENERGY AND AUTOMATION

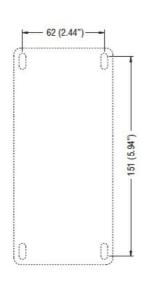
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 120VAC 60HZ

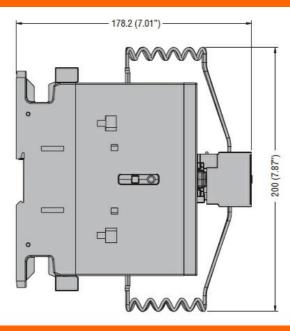
Resistance & Protection

Pollution degree

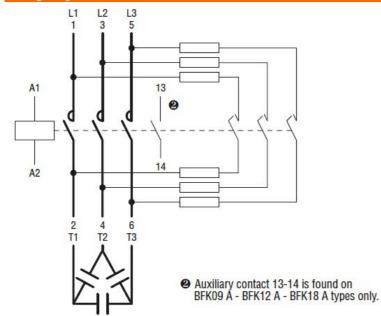
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



BFK11500A12060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 120VAC 60HZ

ETIM 8.0



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 220VAC 60HZ



Product designation Product type designation	tion			Power contactor BFK115
Contact characteristic				DIKITO
Number of poles			Nr.	3
Rated insulation volta	ge Hi JEC/EN		V	690
Rated impulse withsta	-		kV	8
Operational frequency			N.V.	0
Operational frequency	y	min	Hz	25
		min	⊓∠ Hz	400
IEC Conventional free	e air thermal current Ith	max	<u>П</u> 2	160
			A	100
Rated operational pov	wer AC-60 (1540 C)	0001/	1	4.5
		230V	kvar	45
		400V	kvar	75
		440480V	kvar	85
		690V	kvar	135
	current for 10s (IEC/EN60947-1)		Α	920
Protection fuse				
		gG (IEC)	Α	160
Making capacity (RMS	S value)		Α	1500
Breaking capacity at v	voltage			_
		440V	Α	1200
		500V	Α	850
		690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per	pole (average value)			
	,	lth	W	11.5
Tightening torque for	terminals			
		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	lbin	5.2
Tightening torque for	coil terminal	IIIax	10111	0.2
rightening torque for	oon torriiriai	min	Nm	0.8
			Nm	0.6 1
		max	Ibin	0.59
		min		
May a wal ar of wires	simultana sushi sanna atakla	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	ANA/O/I/			
	AWG/Kcmil			0/0
	=	max		2/0
	Flexible w/o lug conductor section		_	
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 220VAC 60HZ

	max	mm²	70
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	2095
Conductor section			
AWG/kcmil conductor section	max		2/0
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	1200000
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	220
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up		0/11	
	min	%Us	80
	max	%Us	110
drop-out		0/11-	00
	min	%Us	20
May avalog fraguency	max	%Us	55
Max cycles frequency Mechanical operation		ovoloo/b	1500
Operating times		cycles/h	1500
Average time for Us control			
in AC			
Closing NO			
Closing NO	min	ms	16
	max	ms	32
Opening NO	max	7110	~ -
	min	ms	9
	max	ms	24
UL technical data			
General USE			
Contactor			
	AC current	Α	160
Ambient conditions			
Temperature			
Operating temperature			
· ·	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000

3



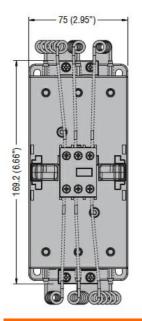
ENERGY AND AUTOMATION

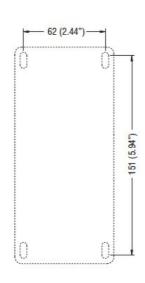
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 220VAC 60HZ

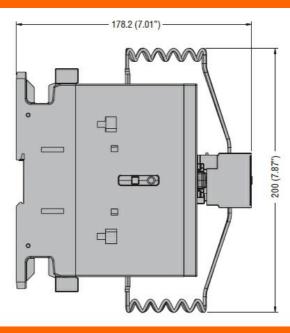
Resistance & Protection

Pollution degree

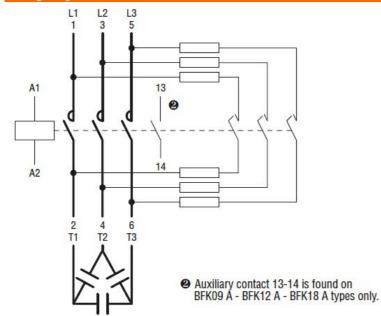
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



ENERGY AND AUTOMATION

BFK11500A22060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 220VAC 60HZ

ETIM 8.0



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 60HZ



Product designation			Power contactor
Product type designation			BFK115
Contact characteristics		N I.e	0
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
150.0	max	Hz	400
IEC Conventional free air thermal current lth		Α	160
Rated operational power AC-6b (T≤40°C)	0001		. –
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
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		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Elevible a/w lug conductor agation			
Flexible c/w lug conductor section			





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 60HZ

-			max	mm²	70
-	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position			normal		Vertical plan
Fixing			allowable		±30° Screw / DIN rail 35mm
Weight				g	2095
Conductor section					
	AWG/kcmil conductor	section	max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 60	0Hz			V	230
AC operating voltage					
	of 60Hz coil powered a				
		pick-up	_		
			min	%Us	80
			max	%Us	110
		drop-out		0/11	
			min	%Us	20
May avalog frequency			max	%Us	55
Max cycles frequency Mechanical operation				ovoloo/b	1500
Operating times				cycles/h	1500
Average time for Us co	ontrol				
Average time for US Co	in AC				
	III AU	Closing NO			
		Ciosing INC	min	ms	16
			max	ms	32
		Opening NO	max		J -
		i	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000

3



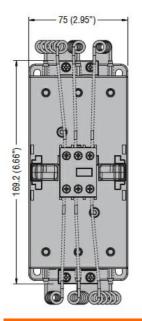
ENERGY AND AUTOMATION

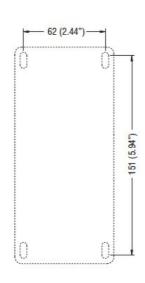
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 60HZ

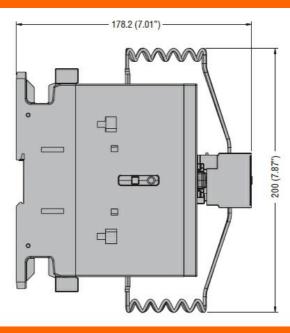
Resistance & Protection

Pollution degree

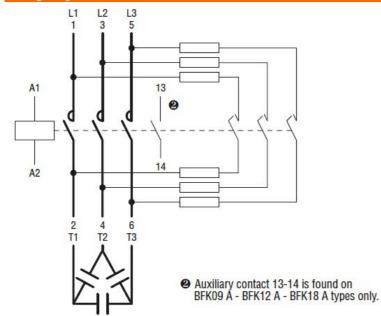
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



BFK11500A23060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 230VAC 60HZ

ETIM 8.0

EC001079 -Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 460VAC 60HZ



Product type designation	Product designation				Power contactor
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 400 IEC Conventional free air thermal current Ith A 160 Rated operational power AC-8b (T≤40°C) 230V kvar 45 440480V kvar 75 440480V kvar 85 690V kvar 135 5 Short-time allowable current for 10s (IEC/EN60947-1) A 920 Protection fuse gG (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Breaking capacity at voltage 440V A 200 Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) mΩ 0.45 Power dissipation per pole (average value) min Nm 6 Power dissipation per pole (average value) min Nm 7 Tightening torque for terminals min Nm 7 min Ibin 0.50 5.2 Tightening torque for volt terminal min Nm 0.8 max Nm 7 1					BFK115
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 A 160 Rated operational power AC-6b (T≤40°C) 230V kvar 45 440V kvar 75 440480V kvar 75 440480V kvar 85 690V kvar 135 Short-time allowable current for 10s (IEC/EN60947-1) A 920 90 Protection fuse gG (IEC) A 160 </td <td></td> <td>CS Comments</td> <td></td> <td></td> <td>_</td>		CS Comments			_
Rated impulse withstand voltage Uimp					
Operational frequency min max Hz but be a possible of the simulation of the product of					
min Hz 25 max Hz 400 EC Conventional free air thermal current ith		•		kV	8
Max Hz 400 IEC Conventional free air thermal current lth A 160 Rated operational power AC-6b (T≤40°C) 230V kvar 45 440480V kvar 75 440480V kvar 135 690V kvar 135 690V kvar 135 690V kvar 135 690V A 1500 70 100 70	Operational frequency	у			
EC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C) 230V kvar 45 400V kvar 75 440480V kvar 85 690V kvar 135 800V kvar 135 800V 800V 800V			min	Hz	25
Rated operational power AC-6b (T≤40°C) 230V kvar 45 400V kvar 75 440480V kvar 85 690V kvar 135 Short-time allowable current for 10s (IEC/EN60947-1) A 920 Protection fuse gG (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 500V A 850 690V A 905 Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) Ith W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4 max 1bin 5.2 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 10.59 max 1bin 0.59 max 1bin 0.59 max 1bin 0.59 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 2/0 Flexible w/o lug conductor section min min mm² 1.5 max mm² 70 Flexible c/w lug conductor section			max	Hz	400
230V kvar 45 400V kvar 75 440480V kvar 75 440480V kvar 75 440480V kvar 135 440480V kvar 130 440480V 130 44048	IEC Conventional free	e air thermal current Ith		Α	160
A 00V kvar 75 440480V kvar 85 690V kvar 135	Rated operational por	wer AC-6b (T≤40°C)			
A40480V kvar 85 690V kvar 135			230V	kvar	45
Short-time allowable current for 10s (IEC/EN60947-1)			400V	kvar	75
Short-time allowable current for 10s (IEC/EN60947-1)			440480V	kvar	85
Short-time allowable current for 10s (IEC/EN60947-1)			690V	kvar	135
Protection fuse gG (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 500V A 850 690V A 905 Resistance per pole (average value) mΩ 0.45 0.45 Power dissipation per pole (average value) Ith W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min lbin 4.4 max Ibin 5.2 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 1.0 1.	Short-time allowable	current for 10s (IEC/EN60947-1)		Α	
Making capacity (RMS value)		,			
Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 500V A 850 690V A 905 Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) Ith W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min lbin 4.4 max lbin 5.2 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 Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² nm² 70			aG (IFC)	Δ	160
Breaking capacity at voltage	Making capacity (RMS	S value)	90 (120)		
A 440V A 1200 500V A 850 690V A 905 Resistance per pole (average value) mΩ 0.45 Power dissipation per pole (average value) Ith W 11.5 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4 max Ibin 5.2 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 2/0 Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70					1000
Soov A 850	breaking capacity at	voltage	440\/	۸	1200
Resistance per pole (average value) mΩ 0.45					
Resistance per pole (average value) mΩ 0.45					
Power dissipation per pole (average value)	Desistance per pole ((average value)	090 V		
Ith W 11.5				mu	0.45
Tightening torque for terminals	Power dissipation per	r pole (average value)	141	147	44.5
Min Nm 6 max Nm 7 min Ibin 4.4 max Ibin 5.2			Ith	VV	11.5
Max Nm 7 min Ibin 4.4 max Ibin 5.2	Tightening torque for	terminals			_
Min Ibin 4.4 max Ibin 5.2			min		
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74			max		
Tightening torque for coil terminal			min		
Min Nm 0.8 max Nm 1 min lbin 0.59 max lbin 0.74			max	lbin	5.2
max Nm 1 min Ibin 0.59 max Ibin 0.74	Tightening torque for	coil terminal			
min			min	Nm	0.8
Max number of wires simultaneously connectable Nr. 2			max	Nm	1
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Flexible w/o lug conductor section max 2/0 Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section Flexible c/w lug conductor section			min	lbin	0.59
AWG/Kcmil			max	lbin	0.74
AWG/Kcmil max 2/0	Max number of wires	simultaneously connectable		Nr.	2
max 2/0	Conductor section				
Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section		AWG/Kcmil			
Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section			max		2/0
min mm² 1.5 max mm² 70 Flexible c/w lug conductor section		Flexible w/o lug conductor section			
max mm² 70 Flexible c/w lug conductor section		5	min	mm²	1.5
Flexible c/w lug conductor section					
· · · · · · · · · · · · · · · · · · ·		Flexible c/w lug conductor section	man		· -
11111 11111 1101			min	mm²	1.5
					-





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 460VAC 60HZ

			max	mm²	70
-	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position			normal		Vertical plan
Fixing			allowable		±30° Screw / DIN rail 35mm
Weight				g	2095
Conductor section				9	2093
Conductor Gootton	AWG/kcmil conductor	section	max		2/0
Operations			max		2,0
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating				\	100
Rated AC voltage at 60	UHZ			V	460
AC operating voltage	of COLL- only noward a	+ COL I=			
	of 60Hz coil powered a				
		pick-up	min	%Us	80
			max	%Us	110
		drop-out	max	7000	110
			min	%Us	20
			max	%Us	55
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co					
	in AC				
		Closing NO	<u>.</u>		4.0
			min	ms	16
		Opening NO	max	ms	32
		Opening NO	min	ms	9
			max	ms	24
UL technical data			max	5	
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000

3



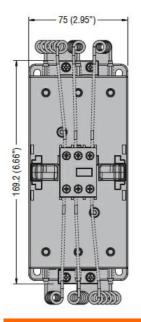
ENERGY AND AUTOMATION

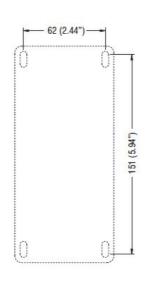
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 460VAC 60HZ

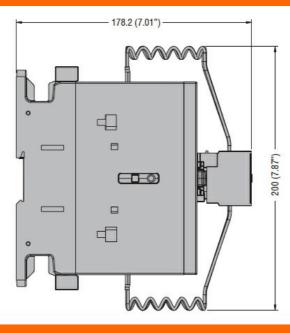
Resistance & Protection

Pollution degree

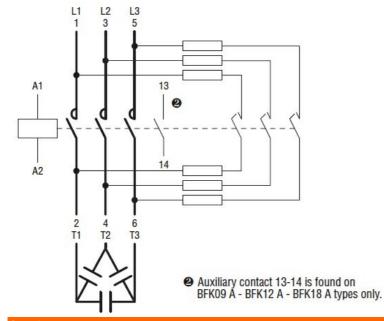
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



BFK11500A46060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 460VAC 60HZ

ETIM 8.0

EC001079 -Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 575VAC 60HZ



Product designation			Power contactor
Product type designation			BFK115
Contact characteristics		N I.e	0
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
150.0	max	Hz	400
IEC Conventional free air thermal current lth		Α	160
Rated operational power AC-6b (T≤40°C)	0001		. –
	230V	kvar	45
	400V	kvar	75
	440480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
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		2/0
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Elevible a/w lug conductor agation			
Flexible c/w lug conductor section			





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 575VAC 60HZ

			max	mm²	70
Power terminal protect	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position					
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rail 35mm
Weight				g	2095
Conductor section					
	AWG/kcmil conductor	section			
			max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data	Od according to EN/ISO	13/180-1			
i enomiance level DTC	ou according to EN/ISO	10403-1	rated load	cycles	400000
			mechanical load	cycles	1500000
EMC compatibility			oa.ioai ioaa	2,2,00	yes
AC coil operating					<u> </u>
Rated AC voltage at 60)Hz			V	575
AC operating voltage					
	of 60Hz coil powered a	it 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out		0/116	20
			min max	%Us %Us	20 55
Max cycles frequency			IIIax	/003	33
Mechanical operation				cycles/h	1500
Operating times				ey ere e, rr	
Average time for Us co	ontrol				
-	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO	. •		0
			min	ms ms	9
UL technical data			max	ms	24
General USE					
20110101 002	Contactor				
	23.1100.0		AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature		_	0.7	•
			min	°C	-60
May altituda			max	°C	80
Max altitude				m	3000

3



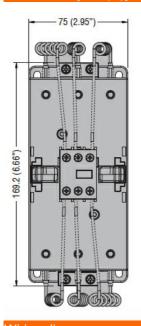
ENERGY AND AUTOMATION

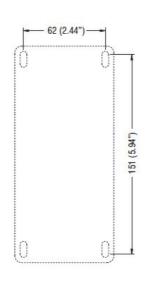
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 575VAC 60HZ

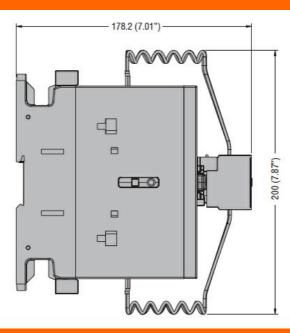
Resistance & Protection

Pollution degree

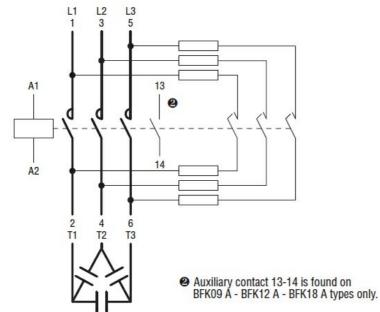
Dimensions [mm (in)]







Wiring diagrams



Certifications and compliance

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



BFK11500A57560

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 575VAC 60HZ

ETIM 8.0

EC001079 -Capacitor contactor