



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			
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)		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			
	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			





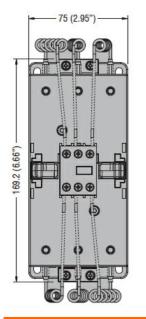
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 50/60HZ

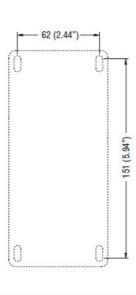
Power terminal protection according to IEC/EN 60529 P20 front Mechanical flatures P20 front Mechanical flatures P20 front P20 f			max	mm²	70
Persiting position	Power terminal protect	tion according to IEC/EN 60529			IP20 front
Name					
State	Operating position				
Neight Some					
Conductor section	Fixing				
Conductor section	Weight			g	
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 mechanical load cycles 400000 cycles 45000000 EMC compatibility yes 400000 150000000 15000000 15000000000 1500000000000000000 150000000000000000000000000<		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 150000000 150000000 150000000 1500000000 1500000000 150000000000				-	
Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 (cycles) 400000 (cycles) 400000 (cycles) 400000 (cycles) 400000 (cycles) 4000000 (cycles) 4000000 (cycles) 4000000 (cycles) 4000000 (cycles) 4000000 (cycles) 40000000 (cycles) 4000000000000000000000000000000000000				cycles	1200000
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min	•	2d according to EN/ISO 12420 4			
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out min	renormance level B10	ou according to EIV/150 13489-1	rated load	cyclos	400000
EMC compatibility yes AC coil operating AC coil operating Rated AC voltage at 50/60Hz 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 AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz 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 Max cycles frequency Mechanical operation Closing NO Closing NO				-	
AC coll 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 Morp-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz 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 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 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO NO 1500	EMC compatibility		medianida idau	Cycles	
Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min wax wus 110 drop-out min wax wus 110 drop-out min whus 20 max wus 55 of 50/60Hz coil powered at 60Hz pick-up min wus wus 55 pick-up min wus wus 110 drop-out min wus wus 110 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz holding Wax 20 of 50/60Hz coil powered at 60Hz in-rush vax 300 holding Vax 17 of 60Hz coil powered at 60Hz in-rush vax 300 holding Vax 20 Dissipation at holding ≤20°C 50Hz w 6.5 Max cycles frequency w 6.5 Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC in AC					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 drop-out min %Us 85 max %Us 110 drop-out min %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		0/60Hz		V	24
Pick-up min Mus 80 max Mus 110 Mus					_
Max		of 50/60Hz coil powered at 50Hz			
Max Mus 110 Mus 20 Mus 55		pick-up			
drop-out min			min		
Min			max	%Us	110
Max Mus 55		drop-out			
of 50/60Hz coil powered at 60Hz					
Pick-up min %Us 85 max %Us 110		of FO/COLLE and a country of the COLLE	max	%US	55
min max MUs 85 max MUs 110		•			
Max WUs 110 Min Min MUs 40 Min Min MUs 55 Max Min		ρισκ-αρ	min	%Hs	85
AC average coil consumption at 20°C Of 50/60Hz coil powered at 50Hz Nolding VA 20					
min max %Us but with state of the sta		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		·	min	%Us	40
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		of 50/60Hz coil powered at 50Hz			
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
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			000
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 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	holding	VA	1/
holdingVA20Dissipation at holding ≤20°C 50HzW6.5Max cycles frequencyWechanical operationcycles/h1500Operating timesAverage time for Us control in ACClosing NO		oi oonz coii powered at oonz	in-ruch	\/Δ	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	notality		
Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO					
Operating times Average time for Us control in AC Closing NO				cycles/h	1500
Average time for Us control in AC Closing NO	-				
in AC Closing NO		ontrol			
· · · · · · · · · · · · · · · · · · ·		in AC			
min ms 16		Closing NO			
			min	ms	16

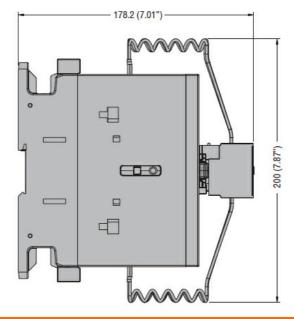


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 24VAC 50/60HZ

		Opening NO	max	ms	32
			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					



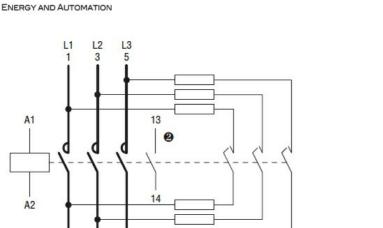




Wiring diagrams



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



Auxiliary contact 13-14 is found on BFK09 A - BFK12 A - BFK18 A types only.

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

EC001079 -Capacitor contactor