

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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		A	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	A	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0.40
	max		2/0
Flexible w/o lug conductor section			4 5
	min	mm²	1.5
Flacible at the control of the control	max	mm²	70
Flexible c/w lug conductor section	min	mm²	1.5





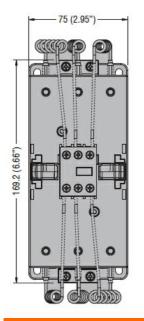
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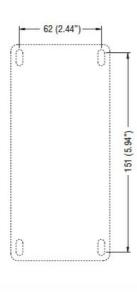
		max	mm²	70
-	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2095
Conductor section			9	
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
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	0/0011		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.4
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage	-f-50/0011			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	IIIAX	7003	110
	arop cut	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	40
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz		1.74	00
	-f 50/0011	holding	VA	20
	of 50/60Hz coil powered at 60Hz	-امنسید:	١/٨	200
		in-rush	VA VA	300 17
	of 60Hz coil powered at 60Hz	holding	VA	1 /
	or our iz our powered at our iz	in-rush	VA	300
		holding	VA	20
Dissipation at holding	≤20°C 50Hz	Holanig	W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times			<b>y</b>	
Average time for Us co	ontrol			
-	in AC			
	Closing NO			
		min	ms	16

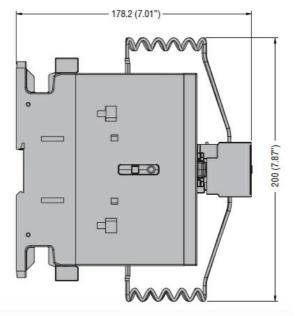


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 24VAC 50/60HZ

	Opening NO	max	ms	32	
	Opening NO		min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
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)]					



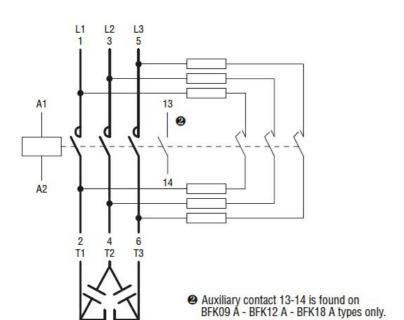




Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, 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** 

BFK9500A024





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



Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency  IEC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C)  4  Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section  AWG/Kcmil	min max 230V	Nr. V kV Hz Hz	3 690 8
Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency  IEC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C)  4 Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section	max 230V	V kV Hz	690 8
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency  IEC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C)  4 Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section	max 230V	V kV Hz	690 8
Rated impulse withstand voltage Uimp Operational frequency  IEC Conventional free air thermal current lth Rated operational power AC-6b (T≤40°C)  4 Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section	max 230V	kV Hz	8
Operational frequency  IEC Conventional free air thermal current Ith  Rated operational power AC-6b (T≤40°C)  4  Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	max 230V	Hz	
IEC Conventional free air thermal current Ith  Rated operational power AC-6b (T≤40°C)  4  Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	max 230V		
Rated operational power AC-6b (T≤40°C)  Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	max 230V		
Rated operational power AC-6b (T≤40°C)  Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	230V	Hz	25
Rated operational power AC-6b (T≤40°C)  Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section			400
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section		Α	140
Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section			
Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section		kvar	34
Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	400V	kvar	60
Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section	40480V	kvar	75
Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section	690V	kvar	80
Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section		Α	760
Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section			
Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	gG (IEC)	Α	125
Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	9 ( /	Α	1200
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable Conductor section			
Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	440V	Α	1100
Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	500V	A	775
Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	690V	A	745
Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section		mΩ	0.45
Tightening torque for terminals  Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section		11122	0.43
Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	141-	١٨/	0.0
Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	Ith	W	8.8
Max number of wires simultaneously connectable Conductor section			
Max number of wires simultaneously connectable Conductor section	min	Nm	6
Max number of wires simultaneously connectable Conductor section	max	Nm	7
Max number of wires simultaneously connectable Conductor section	min	Ibin	4.4
Max number of wires simultaneously connectable Conductor section	max	Ibin	5.2
Conductor section			
Conductor section	min	Nm	0.8
Conductor section	max	Nm	1
Conductor section	min	Ibin	0.59
Conductor section	max	Ibin	0.74
		Nr.	2
AWG/Kcmil			
			2/0
Flexible w/o lug conductor section	max		-
ŭ	max	mm²	1.5
	max min		70
Flexible c/w lug conductor section		mm²	
	min	mm²	
	min	mm²	1.5





BFK9500A048

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

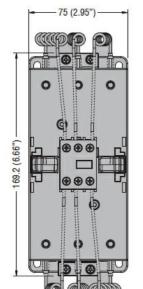
	max	mm²	70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	2095
Conductor section			
AWG/kcmil conductor section			
	max		2/0
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
	mechanical load	cycles	15000000
EMC compatibility			yes
AC coil operating			10
Rated AC voltage at 50/60Hz		V	48
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	min	0/116	80
	min	%Us %Us	110
drop out	max	70US	110
drop-out	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz	max	7000	
pick-up			
ριοιν αρ	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			
	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			4500
Mechanical operation		cycles/h	1500
Operating times			
Average time for Us control			
in AC			
Closing NO	nin	me	16
	min	ms	10

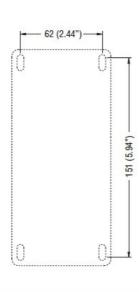


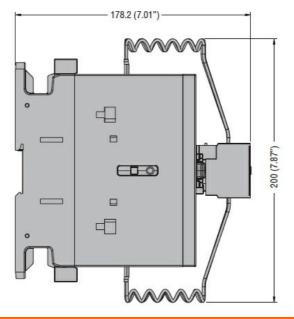


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 48VAC 50/60HZ

	Opening NO	max	ms	32	
	s p s s s s s s s s s s s s s s s s s s		min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
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)]					



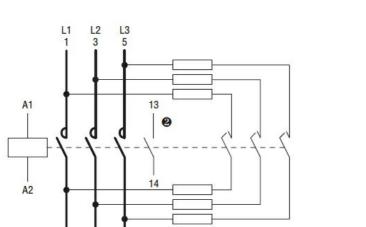




Wiring diagrams



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



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

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

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** 

BFK9500A048





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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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			
	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			
	min	mm²	1.5





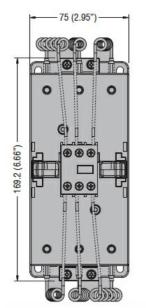
# CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 110VAC 50/60HZ

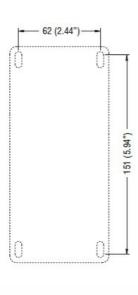
		max	mm²	70
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2095
Conductor section			9	2000
	AWG/kcmil conductor section			
	7.VV G/Normii contadotor cocacin	max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10	0d 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	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
	(50/0011 "	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	0/116	0.E
		min	%Us %Us	85 110
	drop-out	max	/003	110
	diop out	min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C	тах	7000	
	of 50/60Hz coil powered at 50Hz			
	o. co, co co poc. ca at co	holding	VA	20
	of 50/60Hz coil powered at 60Hz	9		·
		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 co	ontrol			
	in AC			
	Closing NO			
		min	ms	16

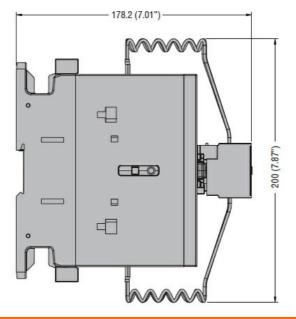


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 110VAC 50/60HZ

	Opening NO	max	ms	32	
	·		min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
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)]					



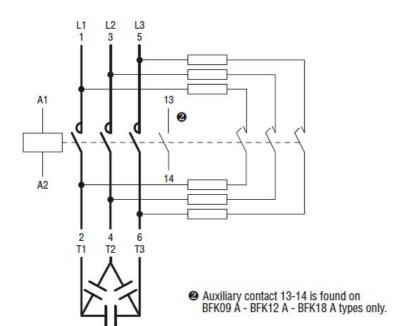




Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, 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** 

BFK9500A110



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



Product designation				Power contactor
Product type designati				BFK95
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar	nd voltage Uimp		kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	140
Rated operational pow	ver AC-6b (T≤40°C)			_
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	760
Protection fuse	,			
		gG (IEC)	Α	125
Making capacity (RMS	value)	· · · · · · · · · · · · · · · · · · ·	Α	1200
Breaking capacity at vo				_
0 1 7		440V	Α	1100
		500V	Α	775
		690V	Α	745
Resistance per pole (a	verage value)		mΩ	0.45
Power dissipation per				
	,	Ith	W	8.8
Tightening torque for to	erminals			
		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	lbin	5.2
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
Max number of wires s	imultaneously connectable	max	Nr.	2
Conductor section	mindical codesty definitionable			
Conductor Socilon	AWG/Kcmil			
	AW O/Normi	max		2/0
	Flexible w/o lug conductor section	IIIdA		<i>L</i>   U
	i leviple mio lud colludciol section	min	mm²	1.5
				70
	Florible of white conductor costion	max	mm²	10
	Flexible c/w lug conductor section	mai:-	mm²	1 5
		min	mm²	1.5



BFK9500A230

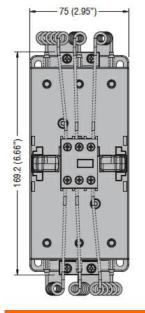
# CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 230VAC 50/60HZ

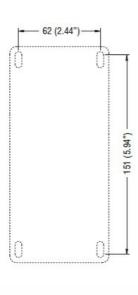
		max	mm²	70
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2095
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data	51//20 404004			
Performance level B10	0d according to EN/ISO 13489-1	and a libraria		100000
		rated load	cycles	400000
FMC compatibility		mechanical load	cycles	15000000
EMC compatibility  AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage	0,00112		•	200
7.0 operaning remage	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		0/11	0.5
		min	%Us	85
	drop-out	max	%Us	110
	αιορ-ουι	min	%Us	40
		max	%Us	55
AC average coil consu	Imption at 20°C	max	,,,,,	
	of 50/60Hz coil powered at 50Hz			
	•	holding	VA	20
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	•	in-rush	VA	300
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
<del></del>	40000 FOLL	holding	VA	20
Dissipation at holding:	≤20°C 50Hz		W	6.5
Max cycles frequency			0) (0) 0 5 /5	1500
Mechanical operation Operating times			cycles/h	1000
Average time for Us co	ontrol			
Average unite 101 US CC	in AC			
	Closing NO			
	Closing NO	min	ms	16
				<del></del>

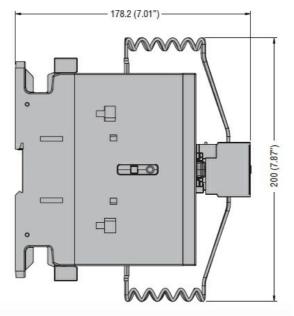


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 230VAC 50/60HZ

		Opening NO	max	ms	32
		Opening NO		ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
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			<u> </u>		3
Dimensions [mm (in)]					



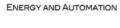


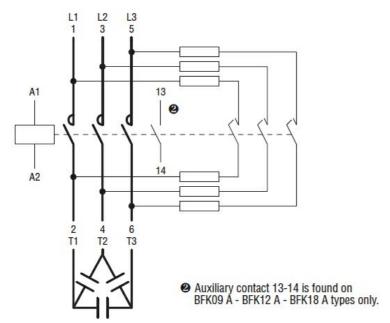


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, 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** 

BFK9500A230





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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)	<u> </u>	Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, , , , , , , , , , , , , , , , , , , ,	Ith	W	8.8
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
3 4 3 4 4 4 4 4 4 4	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable	an	Nr.	2
Conductor section			<del>-</del>
AWG/Kcmil			
7.00 G/1.00 mil	max		2/0
Flexible w/o lug conductor section	max		_, _
Tionisis Wie lag conductor socilori	min	mm²	1.5
	max	mm <sup>2</sup>	70
Flexible c/w lug conductor section	max	111111	, 0
Tickline of wildy conductor section	min	mm²	1.5





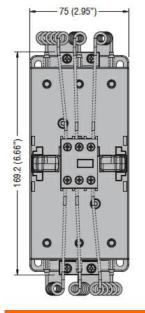
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 400VAC 50/60HZ

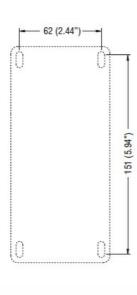
		max	mm²	70
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Moight				2095
Weight Conductor section			g	2095
Conductor Section	ANA/C/komil poudurator postion			
	AWG/kcmil conductor section	may		2/0
Operations		max		2/0
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data			Cycles	400000
	0d according to EN/ISO 13489-1			
T CHOIMANGE ICVELDIN	od docording to ETVICO TO 100 T	rated load	cycles	400000
		mechanical load	cycles	1500000
EMC compatibility		THOUSANICAL ICAA	0,0.00	yes
AC coil operating				yee
Rated AC voltage at 5	0/60Hz		V	400
AC operating voltage				
1 0 0	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	40
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
	(-0/0011 )	holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	300
	of COLLegating and Lat COLL	holding	VA	17
	of 60Hz coil powered at 60Hz		١./٨	000
		in-rush	VA	300
Discinction of In-1-1:	<20°C F0U-	holding	VA	20
Dissipation at holding	\$20°C 50HZ		W	6.5
Max cycles frequency			ovoles/b	1500
Mechanical operation			cycles/h	1300
Operating times	ontrol			
Average time for Us co				
	in AC			
	Closing NO	min	mo	16
		111111	ms	10

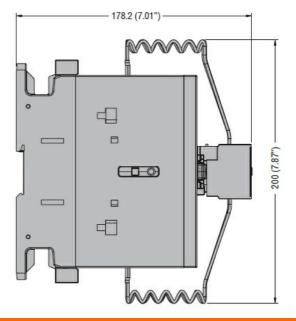


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 400VAC 50/60HZ

	On anima NO	max	ms	32	
		Opening NO	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
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)]					



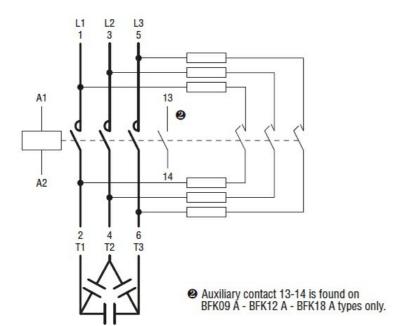




Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, 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** 



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



Product designation			Power contactor
Product type designation			BFK95
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	<u> </u>	Α	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EI	N60947-1)	Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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 connec	ctable	Nr.	2
Conductor section			
AWG/Kcmil			
<del></del>	max		2/0
Flexible w/o lug cor		_	
	min	mm²	1.5
<del></del>	max	mm²	70
Flexible c/w lug con		2	4 =
	min	mm²	1.5





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

			max	mm²	70
	tion according to IEC/EN	N 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	400000
Safety related data	0-l	40400.4			
renormance level B10	Od according to EN/ISO	13409-1	rated load	ovolco	400000
			mechanical load	cycles cycles	1500000
EMC compatibility			medianida idad	Cycles	yes
AC coil operating					yes
Rated AC voltage at 60	0Hz			V	24
AC operating voltage	-				
, ,	of 60Hz coil powered	at 60Hz			
	·	pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
Disability of balding	<00°C FOLL-		max	%Us	55
Dissipation at holding:					
May avalog fraguency	≥20 C 30HZ			W	6.5
Max cycles frequency	320 C 30112				
Mechanical operation	320 C 30HZ			cycles/h	
Mechanical operation Operating times					
Mechanical operation	ontrol				
Mechanical operation Operating times		Closing NO			
Mechanical operation Operating times	ontrol	Closing NO	min		
Mechanical operation Operating times	ontrol	-	min max	cycles/h	1500
Mechanical operation Operating times	ontrol	Closing NO Opening NO	max	cycles/h	1500 16 32
Mechanical operation Operating times	ontrol	-	max min	cycles/h  ms ms ms	1500 16 32 9
Mechanical operation Operating times Average time for Us co	ontrol	-	max	cycles/h ms ms	1500 16 32
Mechanical operation Operating times Average time for Us co	ontrol	-	max min	cycles/h  ms ms ms	1500 16 32 9
Mechanical operation Operating times Average time for Us co	ontrol in AC	-	max min	cycles/h  ms ms ms	1500 16 32 9
Mechanical operation Operating times Average time for Us co	ontrol	-	max min max	ms ms ms ms	1500 16 32 9 24
Mechanical operation Operating times Average time for Us of  UL technical data General USE	ontrol in AC	-	max min	cycles/h  ms ms ms	1500 16 32 9
Mechanical operation Operating times Average time for Us co  UL technical data General USE  Ambient conditions	ontrol in AC	-	max min max	ms ms ms ms	1500 16 32 9 24
Mechanical operation Operating times Average time for Us of  UL technical data General USE	ontrol in AC Contactor	Opening NO	max min max	ms ms ms ms	1500 16 32 9 24
Mechanical operation Operating times Average time for Us co  UL technical data General USE  Ambient conditions	ontrol in AC	Opening NO	max min max	ms ms ms ms	1500 16 32 9 24
Mechanical operation Operating times Average time for Us co  UL technical data General USE  Ambient conditions	ontrol in AC Contactor	Opening NO	max min max AC current	ms ms ms ms	1500 16 32 9 24
Mechanical operation Operating times Average time for Us co  UL technical data General USE  Ambient conditions	ontrol in AC Contactor	Opening NO	max min max  AC current min	cycles/h  ms ms ms A	1500 16 32 9 24 140
Mechanical operation Operating times Average time for Us co  UL technical data General USE  Ambient conditions	ontrol in AC  Contactor  Operating temperature	Opening NO	max min max  AC current min	cycles/h  ms ms ms  ms cycles/h	1500 16 32 9 24 140 -50 70
Mechanical operation Operating times Average time for Us co  UL technical data General USE  Ambient conditions	ontrol in AC  Contactor  Operating temperature	Opening NO	max min max  AC current min max	cycles/h  ms ms ms ms cycles/h	1500 16 32 9 24 140



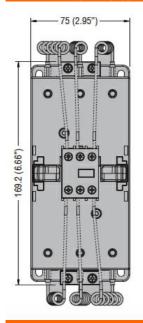
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 24VAC 60HZ

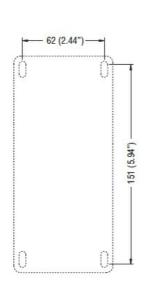
Max altitude m 3000
Resistance & Protection

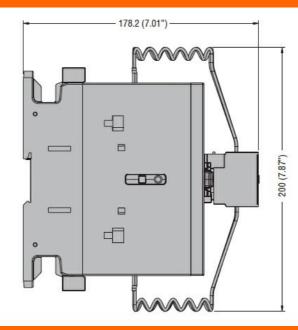
Pollution degree

3

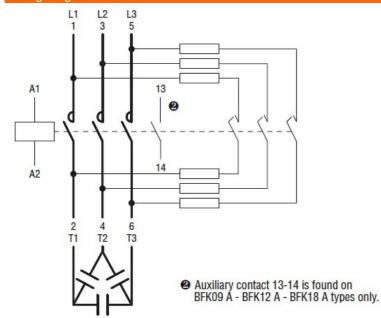
### Dimensions [mm (in)]







#### 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



## BFK9500A02460

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

ETIM 8.0



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



Product designation			Power contactor
Product type designation			BFK95
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	<u> </u>	Α	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EI	N60947-1)	Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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 connec	ctable	Nr.	2
Conductor section			
AWG/Kcmil			
<del></del>	max		2/0
Flexible w/o lug cor		_	
	min	mm²	1.5
<del></del>	max	mm²	70
Flexible c/w lug con		2	4 =
	min	mm²	1.5





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

			max	mm²	70
	tion according to IEC/EI	N 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	rsection			
			max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B10	0d according to EN/ISO	13489-1		_	
			rated load	cycles	400000
TMC commodile lite.			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating Rated AC voltage at 6	0Hz			V	48
AC operating voltage	0112			V	40
710 operating voltage	of 60Hz coil powered	at 60Hz			
	01 001 12 0011 powered	pick-up			
		F	min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
Dissipation at holding	≤20°C 50Hz			W	6.5
Max cycles frequency					
Mechanical operation					4500
Cheratina times				cycles/h	1500
Operating times	antrol			cycles/h	1500
Average time for Us co				cycles/h	1500
	ontrol in AC	Clasing NO		cycles/h	1500
		Closing NO	min		
		Closing NO	min max	ms	16
		Closing NO Opening NO	min max		
		-		ms	16
Average time for Us co		-	max	ms ms	16 32
Average time for Us co		-	max min	ms ms	16 32 9
Average time for Us co	in AC	-	max min	ms ms	16 32 9
Average time for Us co		-	max min max	ms ms ms	16 32 9 24
UL technical data General USE	in AC	-	max min	ms ms	16 32 9
UL technical data General USE  Ambient conditions	in AC	-	max min max	ms ms ms	16 32 9 24
UL technical data General USE	in AC  Contactor	Opening NO	max min max	ms ms ms	16 32 9 24
UL technical data General USE  Ambient conditions	in AC	Opening NO	max min max AC current	ms ms ms	16 32 9 24
UL technical data General USE  Ambient conditions	in AC  Contactor	Opening NO	max min max  AC current min	ms ms ms A	16 32 9 24 140
UL technical data General USE  Ambient conditions	Contactor  Operating temperature	Opening NO	max min max AC current	ms ms ms	16 32 9 24
UL technical data General USE  Ambient conditions	in AC  Contactor	Opening NO	max min max  AC current min max	ms ms ms A	16 32 9 24 140
UL technical data General USE  Ambient conditions	Contactor  Operating temperature	Opening NO	max min max  AC current min	ms ms ms A	16 32 9 24 140

3



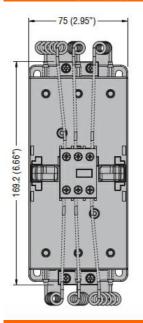
**ENERGY AND AUTOMATION** 

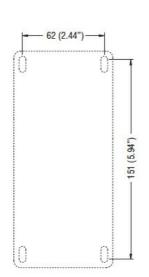
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 48VAC 60HZ

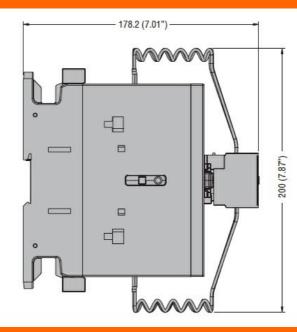
Max altitude m 3000
Resistance & Protection

Pollution degree

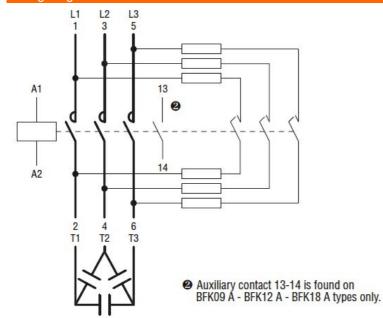
## Dimensions [mm (in)]







#### 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



## BFK9500A04860

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

ETIM 8.0



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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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
<del></del>	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		•	4 =
	min	mm²	1.5
FI. 11. /	max	mm²	70
Flexible c/w lug conductor section	•		4.5
	min	mm²	1.5





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

			max	mm²	70
	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position					
			normal allowable		Vertical plan ±30°
Fixing			allowable		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	400000
Safety related data					
Performance level B1	0d according to EN/ISO	13489-1			40000
			rated load	cycles	400000
EMC compatibility			mechanical load	cycles	15000000
AC coil operating					yes
Rated AC voltage at 6	:0Hz			V	120
AC operating voltage	0112			•	120
· · · · · · · · · · · · · · · · · · ·	of 60Hz coil powered a	t 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
District the Library	400°O 5011-		max	%Us	55
Dissipation at holding	≤20°C 50HZ			W	6.5
Max cycles frequency Mechanical operation				cycles/h	1500
Operating times				Cycles/11	1300
Average time for Us of	ontrol				
	in AC				
		Closing NO			
		-	min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
III toobaical data			max	ms	24
UL technical data General USE					
General USE	Contactor				
	Contactor		AC current	Α	140
Ambient conditions			AO current	Α	1 10
Temperature					
•	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80

3



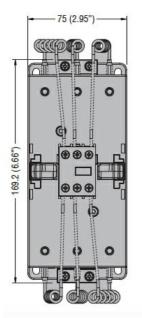
**ENERGY AND AUTOMATION** 

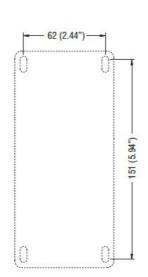
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 120VAC 60HZ

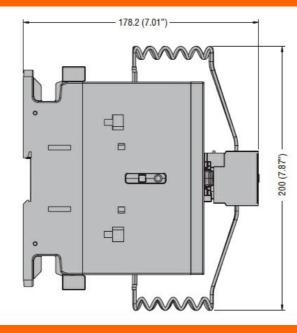
Max altitude m 3000
Resistance & Protection

Pollution degree

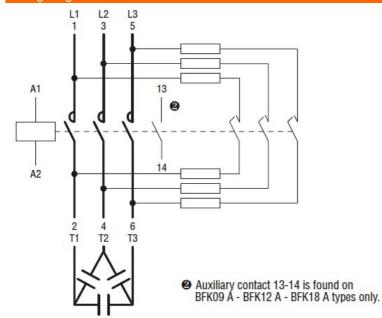
## Dimensions [mm (in)]







#### 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



## BFK9500A12060

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

ETIM 8.0



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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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			
	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 = 60KVAR, COIL 220VAC 60HZ

			max	mm²	70
	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position					
			normal		Vertical plan ±30°
Eiving			allowable		Screw / DIN rail
Fixing					35mm
Weight				g	2095
Conductor section					
	AWG/kcmil conductor	section			0.40
Operations			max		2/0
Operations  Mechanical life				oveloc	15000000
Electrical life				cycles cycles	400000
Safety related data				Cycles	400000
•	0d according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				<del></del>	yes
AC coil operating					
Rated AC voltage at 6	60Hz			V	220
AC operating voltage					
	of 60Hz coil powered a				
		pick-up	_		
			min	%Us	80
		duam a	max	%Us	110
		drop-out	min	%Us	20
			min max	%Us	55
Dissipation at holding	<20°C 50Hz		Παλ	W	6.5
Max cycles frequency				***	0.0
Mechanical operation				cycles/h	1500
Operating times				.,	
Average time for Us c	ontrol				
-	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
UL technical data			max	ms	24
General USE					
Contra COL	Contactor				
	Comación		AC current	Α	140
Ambient conditions			333110		
Temperature					
•	Operating temperature				
	· ·		min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80



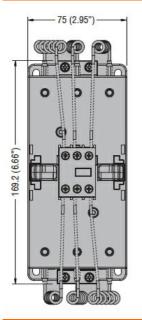
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 220VAC 60HZ

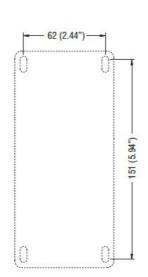
Max altitude m 3000

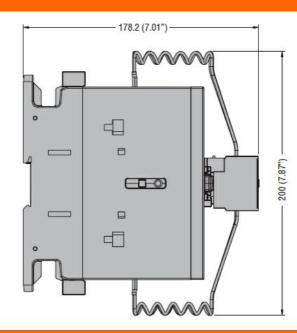
Resistance & Protection

Pollution degree 3

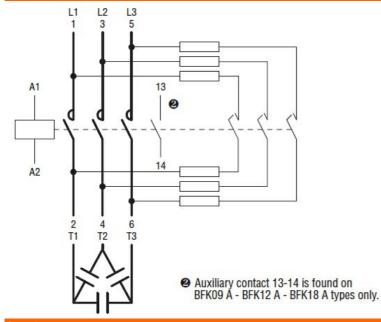
### Dimensions [mm (in)]







#### 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



## BFK9500A22060

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

ETIM 8.0



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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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
<del></del>	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		•	4 =
	min	mm²	1.5
FI. 11. /	max	mm²	70
Flexible c/w lug conductor section			4.5
	min	mm²	1.5





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

			max	mm²	70
	ction according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position					
			normal		Vertical plan ±30°
Fixing			allowable		Screw / DIN rail
Weight					35mm 2095
Conductor section				g	2093
Conductor Section	AWG/kcmil conductor	section			
	7 (V C/Rollin Colladolo)	30011011	max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B1	0d according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating	2011-			\/	220
Rated AC voltage at 6 AC operating voltage	DUHZ			V	230
AC operating voltage	of 60Hz coil nowared a	+ 60∐-z			
	of 60Hz coil powered a	pick-up			
		ріск-ир	min	%Us	80
			max	%Us	110
		drop-out			
		·	min	%Us	20
			max	%Us	55
Dissipation at holding				W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us c					
	in AC	Clasina NO			
		Closing NO	min	ms	16
			max	ms	32
		Opening NO	max	1110	02
		opag	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
Ambient conditions					
Temperature	O a serificial desired				
	Operating temperature		•	۰.	50
			min	°C	-50 70
	Storage temperature		max	C	70
	Storage temperature		min	°C	-60
			max	°C	80
			max		



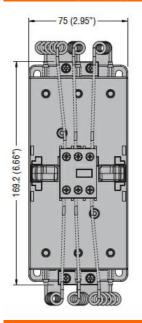
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 230VAC 60HZ

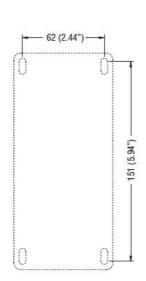
Max altitude m 3000

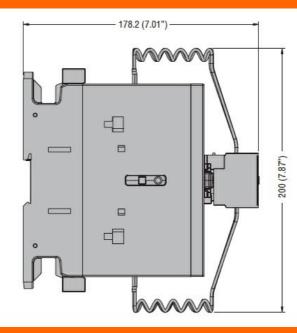
Resistance & Protection

Pollution degree 3

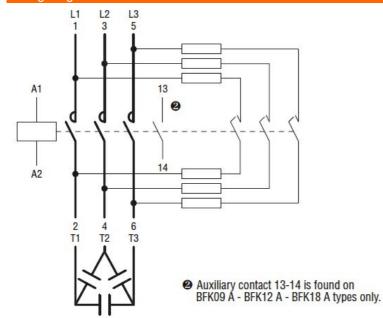
## Dimensions [mm (in)]







#### 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



# BFK9500A23060

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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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			
	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 = 60KVAR, COIL 460VAC 60HZ

			max	mm²	70
	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position					
			normal allowable		Vertical plan ±30°
Fixing			allowable		Screw / DIN rail
Weight					35mm 2095
Conductor section				g	2093
Conductor Section	AWG/kcmil conductor	section			
	/ W C/Romm conductor	30011011	max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B1	0d according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating	·OL I=			\/	400
Rated AC voltage at 6 AC operating voltage	OUHZ			V	460
AC operating voltage	of 60Hz coil nowared a	+ 60∐-z			
	of 60Hz coil powered a	pick-up			
		ріск-ар	min	%Us	80
			max	%Us	110
		drop-out			
		·	min	%Us	20
			max	%Us	55
Dissipation at holding				W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us c					
	in AC	Clooing NO			
		Closing NO	min	ms	16
			max	ms	32
		Opening NO	max	1113	J_
		- P	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	140
Ambient conditions					
Temperature	O a serificial desired				
	Operating temperature		•	۰.	50
			min	°C	-50 70
	Storage temperature		max	C	70
	Sicrage temperature		min	°C	-60
			max	°C	80
			max		

3



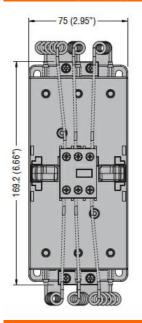
**ENERGY AND AUTOMATION** 

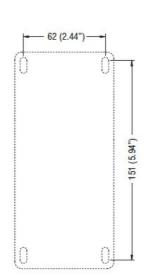
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 460VAC 60HZ

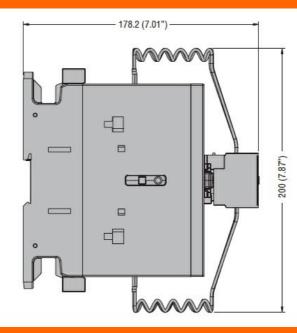
Max altitude m 3000
Resistance & Protection

Pollution degree

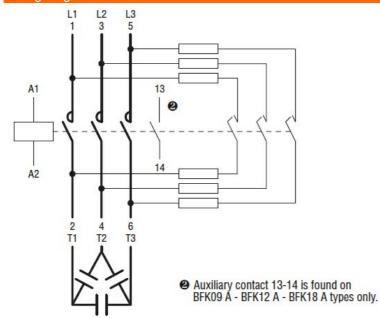
## Dimensions [mm (in)]







#### 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



## BFK9500A46060

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



Product designation			Power contactor
Product type designation			BFK95
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	140
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)		A	760
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
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	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			
	min	mm²	1.5





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 575VAC 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			IIIdx		2/0
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			rated load	cycles	400000
EMC compatibility			mechanical load	cycles	15000000
EMC compatibility AC coil operating					yes
Rated AC voltage at 60	0Hz			V	575
AC operating voltage	-				
, ,	of 60Hz coil powered a	t 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out	min	%Us	20
			min max	%Us %Us	20 55
Dissipation at holding :	≤20°C 50Hz		max	W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co					
	in AC	Clasina NO			
		Closing NO	min	ms	16
			max	ms	32
		Opening NO			_
			min	ms	9
			max	ms	24
UL technical data					
General USE	Cantastar				
	Contactor		AC current	Α	140
Ambient conditions			AO current		140
Temperature					
•	Operating temperature				
	•		min	°C	-50
			max	°C	70
	Storage temperature		_	2.2	00
			min	°C	-60
			max	°C	80

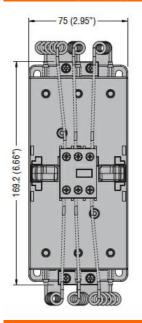


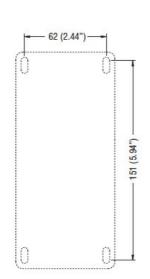
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 60KVAR, COIL 575VAC 60HZ

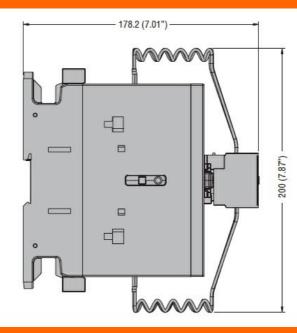
Max altitude m 3000
Resistance & Protection

Pollution degree 3

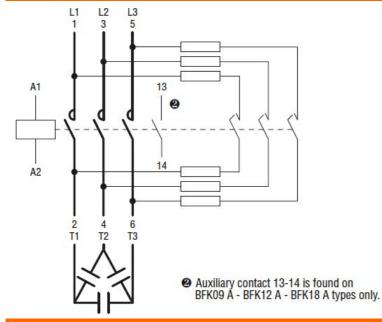
## Dimensions [mm (in)]







#### 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



## BFK9500A57560

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

ETIM 8.0

EC001079 -Capacitor contactor