

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 24VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK150
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		A	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
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			
r lexible c/w lug conductor section			



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT,

INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR,

AND AUTOMATION

COIL 24VAC 50/60HZ

		max	mm²	70
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position		n o ron ol		Vartical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	2095
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	800000
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	0/001		\ /	0.4
Rated AC voltage at 5	U/6UHZ		V	24
AC operating voltage	of EO/GOLLZ and powered at EOLLZ			
	of 50/60Hz coil powered at 50Hz pick-up			
	ріск-ар	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	5.51	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	-اس. مدا	١/٨	300
		in-rush	VA VA	20
	of 50/60Hz coil powered at 60Hz	holding	VA	۷.
	or 50/00112 con powered at our iz	in-rush	VA	300
		holding	VA VA	17
	of 60Hz coil powered at 60Hz	Holaling	٧, ١	• •
		in-rush	VA	300
		holding	VA	20
Dissipation at holding	≤20°C 50Hz	<u> </u>	W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			

Closing NO

in AC



3



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, **electric** INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 24VAC 50/60HZ

	min	ms	16
	max	ms	32
Opening NO			
	min	ms	9
	max	ms	24

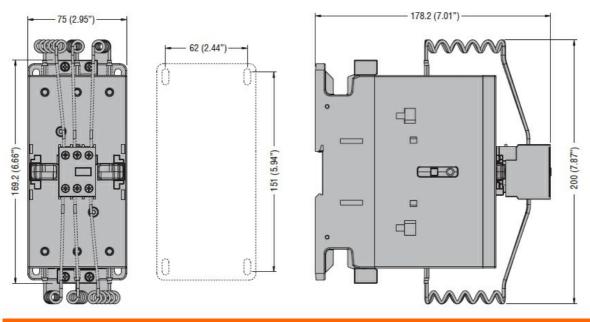
UL technical data

General USE

Contactor

		AC current	Α	165
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			_
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			

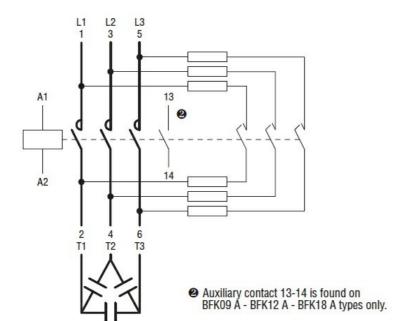
Pollution degree Dimensions [mm (in)]



Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, 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

EC001079 -Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 48VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK150
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	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
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			
Č	min	mm²	1.5





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 48VAC 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
Solidation decilion	AWG/kcmil conductor section			
	/W C/Norm conductor cochor	max		2/0
Operations		111607		_, v
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data			.,	
	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	48
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		0/11-	0.5
		min	%Us	85
	drop out	max	%Us	110
	drop-out	min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C	Παλ	/003	33
to avorage con corist	of 50/60Hz coil powered at 50Hz			
	5. 56/66/12 66/1 powered at 60/12	in-rush	VA	300
		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	<u> </u>	W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
verage time for Us co	ontrol			

in AC

Closing NO



3



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT,

INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR,

AND AUTOMATION

COIL 48VAC 50/60HZ

	min	ms	16
	max	ms	32
Opening NO			
	min	ms	9
	max	ms	24

UL technical data

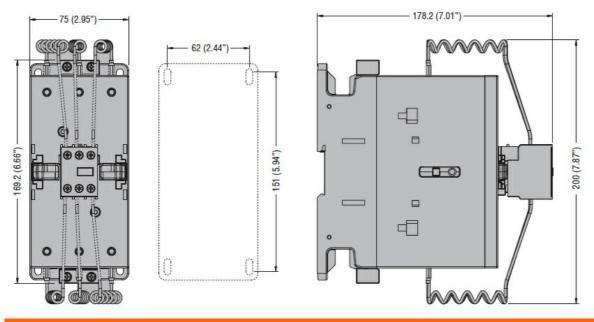
General USE

Contactor

		AC current	Α	165
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on .			

Pollution degree

Dimensions [mm (in)]

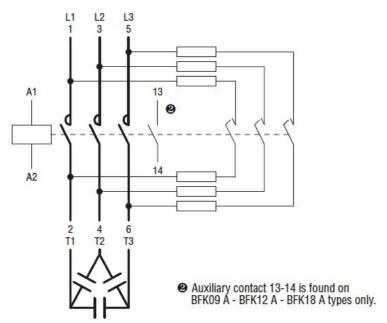


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 48VAC 50/60HZ

ENERGY AND AUTOMATION



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

EC001079 -Capacitor contactor





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 110VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK150
Contact characteristics		N.I.	0
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	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
Tightening torque for terminals			
rigitoring to que for terminate	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal	IIIax	IDIII	J.2
rightening torque for conteminal	min	Nm	0.8
	min		
	max	Nm	1
	min	Ibin	0.59
May a washay of wive a circulton accept, acceptable	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		_	
	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, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 110VAC 50/60HZ

	max	mm²	70
n according to IEC/EN 60529			IP20 front
			Vertical plan
	allowable		±30°
			Screw / DIN rai
			35mm
		g	2095
ANA(O.//			
AVVG/KCMII conductor section			0/0
	max		2/0
			45000000
		-	15000000
		cycles	800000
according to EN/150 13489-1	الممللة منصور	ovoles	400000
		-	400000
	mechanicai ioad	cycles	15000000
			yes
2011-		\/	110
JUN2		V	110
of FO/GOLLT and powered at FOLLT			
•			
ріск-ир	min	0/ L lo	80
			110
dron-out	IIIax	/003	110
drop-out	min	% le	20
			55
of 50/60Hz coil powered at 60Hz	max	7000	
·			
ρίοκ αρ	min	%Us	85
			110
drop-out		,,,,,	•
шр- г.ш.	min	%Us	40
			55
ption at 20°C			
•			
•	in-rush	VA	300
	holding	VA	20
of 50/60Hz coil powered at 60Hz			
·	in-rush	VA	300
	holding	VA	17
of 60Hz coil powered at 60Hz	<u> </u>		
·	in-rush	VA	300
	holding	VA	20
0°C 50Hz	<u> </u>	W	6.5
		cycles/h	1500
	AWG/kcmil conductor section according to EN/ISO 13489-1 30Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pich solution at 20°C of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	AWG/kcmil conductor section according to EN/ISO 13489-1 rated load mechanical load 60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max drop-out of 50/60Hz coil powered at 60Hz pick-up min max drop-out in-rush holding of 60Hz coil powered at 60Hz in-rush holding	AWG/kcmil conductor section AWG/kcmil conductor section

in AC

Closing NO

3



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 110VAC 50/60HZ

	min	ms	16
	max	ms	32
Opening NO			
	min	ms	9
	max	ms	24

UL technical data

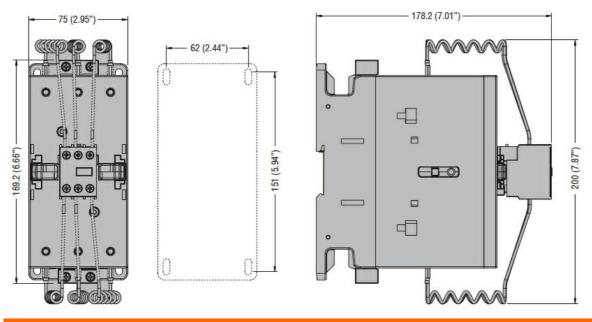
General USE

Contactor

		AC current	Α	165
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on .			

Pollution degree

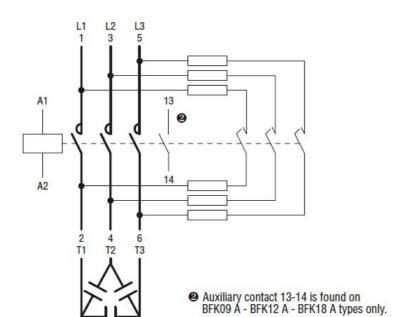
Dimensions [mm (in)]



Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, 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

EC001079 -Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, AND AUTOMATION

COIL 230VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK150
Contact characteristics		N.I.	0
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	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
Tightening torque for terminals			
rigitoring to que for torminate	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal	IIIax	IDIII	J.2
rightening torque for conteminal	min	Nm	0.8
	min		
	max	Nm	1
	min	Ibin	0.59
May a washay of wive a circulton accept, acceptable	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		_	
	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, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, **COIL 230VAC 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	800000
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 50	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
	1	max	%Us	110
	drop-out		0/11-	00
		min	%Us	20
	at 50/001 - asil assumed at 001 -	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/116	0.5
		min	%Us	85 110
	drop out	max	%Us	110
	drop-out	min	%Us	40
		max	%Us	55
AC average coil consu	montion at 20°C	IIIdx	7003	33
Ao average con consu	of 50/60Hz coil powered at 50Hz			
	of 30/00112 con powered at 30112	in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz	Holding	٧/١	
	5. 55, 561 12 5611 portorou at 661 12	in-rush	VA	300
		holding	VA	17
	of 60Hz coil powered at 60Hz	noiding	*/ 1	• •
	2. 222 23 po 2. 24 at 202	in-rush	VA	300
		holding	VA	20
Dissipation at holding :	≤20°C 50Hz	110.0.119	W	6.5
Max cycles frequency			•••	
Mechanical operation			cycles/h	1500
Operating times			2, 2.00,11	

in AC

Closing NO



3



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, **electric** INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 230VAC 50/60HZ

	min	ms	16
	max	ms	32
Opening NO			
	min	ms	9
	max	ms	24

UL technical data

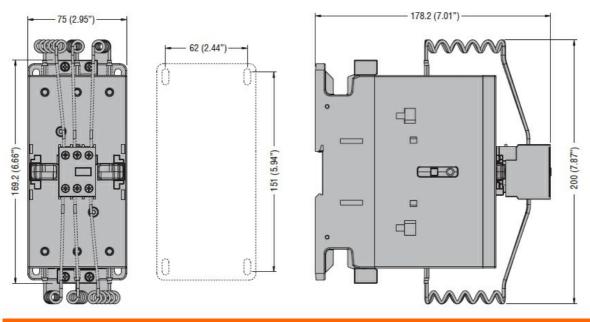
General USE

Contactor

		AC current	Α	165
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	on			

Pollution degree

Dimensions [mm (in)]

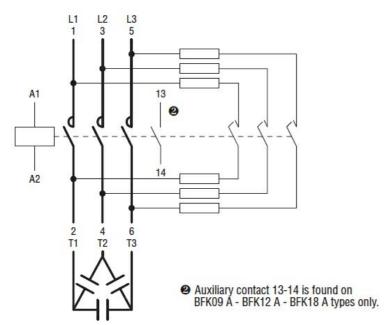


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 230VAC 50/60HZ

ENERGY AND AUTOMATION



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

EC001079 -Capacitor contactor





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, AND AUTOMATION

COIL 400VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK150
Contact characteristics		N.I.	0
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	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
Tightening torque for terminals			
rigitoring to que for torminate	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal	IIIax	IDIII	J.2
rightening torque for conteminal	min	Nm	0.8
	min		
	max	Nm	1
	min	Ibin	0.59
May a washay of wive a circulton accept, acceptable	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		_	
	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, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, **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 rai
10/a:abt				35mm
Weight			g	2095
Conductor section	ANA/Q/I 1			
	AWG/kcmil conductor section	200 1/		2/0
Operations		max		2/0
Mechanical life			ovoloo.	1500000
Electrical life			cycles	15000000 800000
Safety related data			cycles	800000
*	od according to EN/ISO 12490 1			
	Od according to EN/ISO 13489-1	rated load	cycles	400000
		mechanical load	cycles	1500000
EMC compatibility		mechanical load	cycles	
AC coil operating				yes
Rated AC voltage at 50	0/60Hz		V	400
AC operating voltage	0,00112		v	400
to operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	рюк ир	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	imption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		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				

in AC

Closing NO



3



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 400VAC 50/60HZ

	min	ms	16
	max	ms	32
Opening NO			
	min	ms	9
	max	ms	24

UL technical data

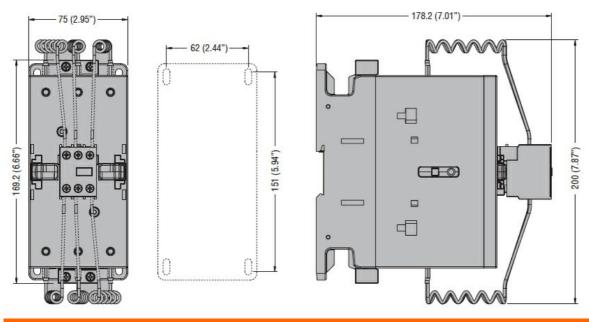
General USE

Contactor

		AC current	Α	165
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	on			

Pollution degree

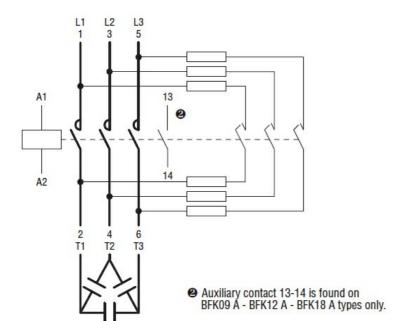
Dimensions [mm (in)]



Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, 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

EC001079 -Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 24VAC 60HZ



Product designation Product type designation	tion			Power contactor BFK150
Contact characteristic				BITTIOO
Number of poles			Nr.	3
Rated insulation volta	ge Ui IFC/FN		V	690
Rated impulse withsta	-		kV	8
Operational frequency			IX V	
Operational frequency	y	min	Hz	25
		max	Hz	400
IFC Conventional free	e air thermal current Ith	IIIdx	A	165
Rated operational pov				100
italed operational pot	Wei AC-0b (1340 C)	230V	lavor	50
			kvar	
		400V	kvar	100
		440480V	kvar	115
		690V	kvar	150
	current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse				
		gG (IEC)	Α	160
Making capacity (RMS	S value)		Α	1500
Breaking capacity at v	voltage			
		440V	Α	1200
		500V	Α	1025
		690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per	pole (average value)			
	,	lth	W	12
Tightening torque for	terminals			
		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	lbin	5.2
Tightening torque for	coil terminal	IIIdx	IDIII	5.2
riginiening torque for	COII (GITIIII IAI	min	Nm	0.8
		min	Nm Nm	
		max	Nm	1
		min	Ibin	0.59
Management	Secretary and the secretary of the secre	max	Ibin	0.74
	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,

PLECTIC INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR,

AND AUTOMATION COIL 24VAC 60HZ

Power terminal protection according to IEC/EN 60529 P20 front Mechanical features P20 fr				max	mm²	70
Operating position normal allowable		tion according to IEC/EN	60529			IP20 front
Normal allowable Normal All						
Fixing	Operating position					Marchallan
Fixing Screw / DiN rail 35mm Weight 9 2095						
Name				allowable		
Weight Conductor section g 2095 Conductor section max 2/0 Operations Mechanical life cycles 15000000 Electrical life cycles 800000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 EMC compatibility yes AC action operating AC coll operating AC action operating voltage of 60Hz coil powered at 60Hz yes AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush wus will be wi	Fixing					
Conductor section	Weight				a	
AWG/kcmil conductor section max z/0					9	
Mechanical life cycles 15000000 Electrical life cycles 800000 Satery related data Performance level B10d according to EN/ISO 13489-1 Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 cycles EMC compatibility yes AC coil operating V 24 AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz min %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding V 20 Dissipation at holding ≤20°C 50Hz w 6.5 Macycles frequency w 6.5 Macycles frequency w 6.5 Machanical operation cycles/h 1500 Operating times c y 2.0 Closing NO min ms 16 max ms 3.2 3.2 Opening NO min		AWG/kcmil conductor	section			
Operations Cycles 15000000 Mechanical life cycles 800000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 EMC compatibility yes AC coil operating V 24 AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz AC average coil consumption at 20°C of 60Hz coil powered at 60Hz In-rush holding ≤20°C 50Hz w 55 AMax cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO min ms 16 Max cycles frequency Copening NO min ms 16 Max cycles frequency are frequency Max cycles frequency max max ms 16				max		2/0
Mechanical life	Operations					
Electrical life	· ·				cycles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load vocal load mechanical load vocal load mechanical load mechanical load vocal load load load vocal load load vocal load load vocal load load load load load load load lo						
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load vocals (cycles) 400000 (cycles) 4000000 (cycles) 40000000 (cycles) 40000000 (cycles) 4000000000000000000000000000000000000	Safety related data					
EMC compatibility yes AC coil operating yes Rated AC voltage at 60Hz V 24 AC operating voltage min %Us 80 pick-up min %Us 80 max %Us 110 drop-out min %Us 55 AC average coil consumption at 20°C min vu 55 AC average coil consumption at 20°C in-rush holding VA 30 plastipation at holding ≤20°C 50Hz w 6.5 Max cycles frequency w 6.5 Mechanical operation cycles/h 1500 Operating times cycles/h 1500 Average time for Us control in AC min ms 16 Closing NO min ms 16 Opening NO min ms 9 Opening NO min ms 9 Average time for Us control max min ms 9 In Letchnical data min ms 9 General USE min ms 9	-	od according to EN/ISO	13489-1			
EMC compatibility yes AC coil operating AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min wulls 80 max wulls 110 drop-out min wulls 80 max wulls 110 drop-out min wulls 20 max wulls 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz in-rush Wa 300 holding Wa 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 min ms 16 max ms 32 Opening NO min ms 9 max ms 32 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature		-		rated load	cycles	400000
AC coil operating Rated AC voltage at 60Hz V 24 AC operating voltage min %Us 80 pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush value VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Max cycles frequency W 6.5 Max cycles frequency In Fush value N 1500 Operating times Closing NO min ms 16 1500 Opening NO min ms 32 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16				mechanical load	cycles	15000000
AC coil operating Rated AC voltage at 60Hz V 24 AC operating voltage min %Us 80 pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C max %Us 55 AC average coil consumption at 20°C in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Mechanical operation cycles/h 1500 Operating times S 32 Average time for Us control min ms 32 in AC Closing NO min ms 32 Opening NO min ms 9 ub. technical data max ms 24 UL technical data AC current A 165 Ambient conditions AC current A 165	EMC compatibility					yes
AC operating voltage of 60Hz coil powered at 60Hz pick-up min win will will will will will will wil	AC coil operating					
of 60Hz coil powered at 60Hz pick-up min	Rated AC voltage at 60)Hz			V	24
Pick-up min wus 80 max wus 110 min max wus 110 max wus 110 max wus 110 max wus 55 max wus 60 max max	AC operating voltage					_
min max %Us and was all to the point of the point		of 60Hz coil powered a	t 60Hz			
Max Mus 110 Mus Mus 20 Mus 55 Mus Mus 55 Mus Mus 55 Mus Mus 55 Mus Mus Mus 55 Mus Mus Mus 55 Mus			pick-up			
AC average coil consumption at 20°C Of 60Hz coil powered at 60Hz Of 60Hz coil powered at 60Hz coil powere				min		
Max %Us 20 max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush body in-rush b				max	%Us	110
max %Us 55 AC average coil consumption at 20°C in-rush VA 300 60Hz coil powered at 60Hz in-rush VA 300 in-rush holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Mechanical operation cycles/h 1500 Operating times Closing NO T T In AC min ms 16 Closing NO max ms 32 Opening NO min ms 9 UL technical data max ms 24 UL technical data AC current A 165 Ambient conditions AC current A 165			drop-out			
AC average coil consumption at 20°C				min		
of 60Hz coil powered at 60Hz 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 min ms 16 max ms 32 Opening NO min ms 9 max ms 32 Opening NO UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature				max	%Us	55
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 min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature	AC average coil consu	•				
Dissipation at holding ≤20°C 50HzW6.5Max cycles frequencyMechanical operationcycles/h1500Operating timesAverage time for Us control in ACminms16Closing NOminms32Opening NOminms9maxms24UL technical dataGeneral USEAC currentA165Ambient conditionsTemperature		of 60Hz coil powered a	t 60Hz) /A	000
Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature						
Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC min ms 16 Closing NO min ms 32 Opening NO min ms 9 max ms 24 UL technical data General USE AC current A 165 Ambient conditions Temperature	District Constitution	400°O FOLL-		nolaing		
Mechanical operation cycles/h 1500 Operating times Average time for Us control		\$20°C 50HZ			VV	6.5
Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature					ovaloo/b	1500
Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature					cycles/n	1500
in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature		ontrol				
Closing NO	Average unit 101 US CC					
min ms 16 max ms 32		III AO	Closing NO			
Opening NO Max ms 32			Closing NO	min	ms	16
Opening NO min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature						
min ms 9 max ms 24 UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature			Opening NO	max	0	~-
UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature			- 1, 2, 9	min	ms	9
UL technical data General USE Contactor AC current A 165 Ambient conditions Temperature						
General USE Contactor AC current A 165 Ambient conditions Temperature	UL technical data					
Contactor AC current A 165 Ambient conditions Temperature						
Ambient conditions Temperature AC current A 165 Temperature		Contactor				
Ambient conditions Temperature				AC current	Α	165
Temperature	Ambient conditions					
	Temperature					
		Operating temperature				

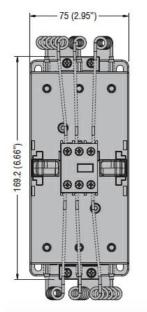


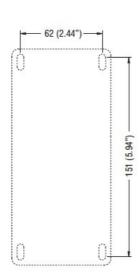


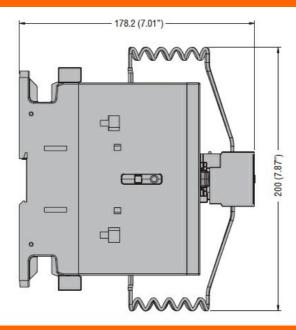
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 24VAC 60HZ

	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

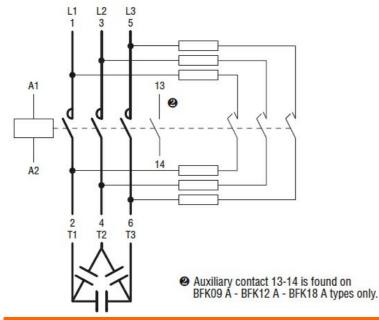
Dimensions [mm (in)]







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



BFK15000A02460

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 24VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classification	n	
ETIM 8.0		EC001079 - Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 48VAC 60HZ



Product designation			Power contactor
Product type designation			BFK150
Contact characteristics		N.I.	0
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	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
Tightening torque for terminals			
rigitoring to que for torminate	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal	IIIax	IDIII	J.2
rightening torque for conteminal	min	Nm	0.8
	min		
	max	Nm	1
	min	Ibin	0.59
May a washay of wive a circulton accept, acceptable	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		_	
	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, PLECTIC INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, AND AUTOMATION COIL 48VAC 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
Moight				~	35mm 2095
Weight Conductor section				g	2095
Conductor Section	AWG/kcmil conductor s	cotion			
	AVVG/KCITIII COTIQUETOT S	Section	max		2/0
Operations			IIIdA		2/0
Mechanical life				cycles	15000000
Electrical life				cycles	800000
Safety related data				Cycles	000000
	Od according to EN/ISO 1	3489-1			
. C. C. Mario lovoi Di	on according to Envice		rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				0,0.00	yes
AC coil operating					,
Rated AC voltage at 60)Hz			V	48
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
AC average coil consu	mption at 20°C				
	of 60Hz coil powered a	t 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					
	in AC	01 : 110			
		Closing NO	•		4.0
			min	ms	16
		Opening NO	max	ms	32
		Opening NO	min	me	9
			min	ms ms	24
UL technical data			max	ms	۷4
General USE					
Contrai COL	Contactor				
	Contactor		AC current	Α	165
Ambient conditions			AO CUITEIR		
Temperature					
	Operating temperature				
	Sporating temperature				

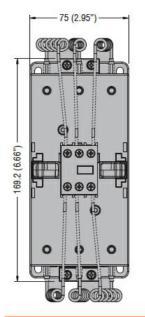


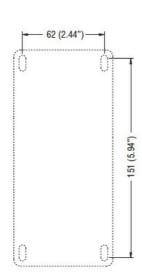


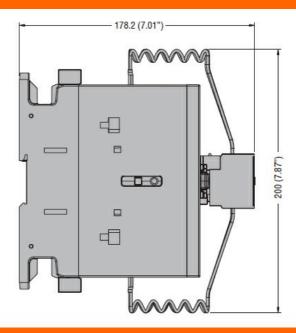
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 48VAC 60HZ

	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

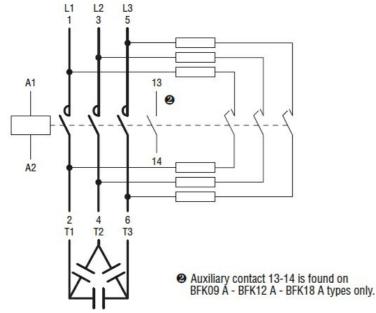
Dimensions [mm (in)]







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



BFK15000A04860

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 48VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classification		
ETIM 8.0		EC001079 - Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 120VAC 60HZ



Product designation			Power contactor
Product type designation			BFK150
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		A	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
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			
r lexible c/w lug conductor section			



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT,

INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR,

AND AUTOMATION

COIL 120VAC 60HZ

		max	mm²	70
	ion 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	800000
Safety related data				
	od according to EN/ISO 13489-1			
	<u> </u>	rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility			,	yes
AC coil operating				,
Rated AC voltage at 60)Hz		V	120
AC operating voltage				
1 5 5	of 60Hz coil powered at 60Hz			
	pick-up			
	F 1511 MP	min	%Us	80
		max	%Us	110
	drop-out			-
	'	min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C			
· ·	of 60Hz coil powered at 60Hz			
	•	in-rush	VA	300
		holding	VA	20
Dissipation at holding ≤	≤20°C 50Hz	<u> </u>	W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
-	in AC			
	Closing NO			
	Č	min	ms	16
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
General USE				
	Contactor			
		AC current	Α	165
Ambient conditions				
Temperature				
•				
	Operating temperature			

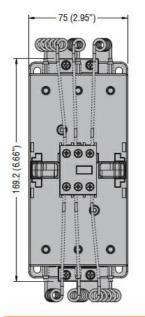


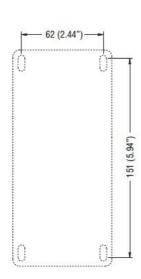


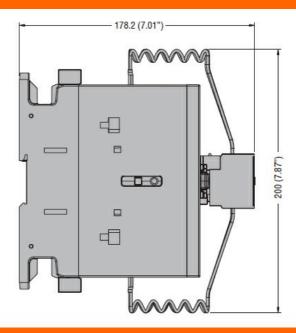
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 120VAC 60HZ

	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

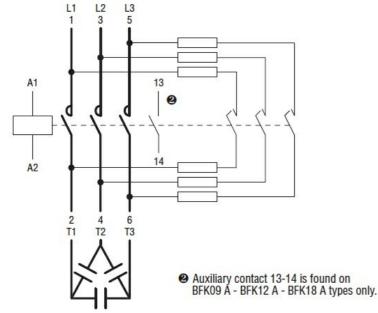
Dimensions [mm (in)]







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



BFK15000A12060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 120VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classification		
ETIM 8.0		EC001079 - Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 220VAC 60HZ



Product designation Product type designat	ion			Power contactor BFK150
Contact characteristic				DFK130
Number of poles	3		Nr.	3
Rated insulation voltage	ne Hi IFC/FN		V	690
Rated impulse withsta			kV	8
Operational frequency	•		K V	0
Operational frequency		min	Hz	25
		min	⊓z Hz	400
IFC Conventional free	air thermal current Ith	max	<u>п</u> А	
			A	165
Rated operational pov	wer AC-60 (1540°C)	0001/		50
		230V	kvar	50
		400V	kvar	100
		440480V	kvar	115
		690V	kvar	150
	current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse				
		gG (IEC)	Α	160
Making capacity (RMS	S value)		Α	1500
Breaking capacity at v	roltage			
		440V	Α	1200
		500V	Α	1025
		690V	Α	905
Resistance per pole (a	average value)		mΩ	0.45
Power dissipation per	pole (average value)			
		Ith	W	12
Tightening torque for t	terminals			
0 0 1		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	Ibin	5.2
Tightening torque for o	coil terminal			
riginioning torque for t		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
May number of wires	simultaneously connectable	IIIdx	Nr.	2
Conductor section	Simultaneously connectable		INI.	
Conductor Section	AWG/Kcmil			
	AVVG/RCITIII	200 01		2/0
	Florible w/e lug conductor costice	max		2/0
	Flexible w/o lug conductor section			4.5
		min	mm²	1.5
	Fig. 11 / . I /	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 = 100KVAR, AND AUTOMATION

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	800000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
-	rated load	cycles	400000
I	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			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz			
	in-rush	VA	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			
	min	ms	16
	max	ms	32
Opening NO			
	min	ms	9
	max	ms	24
UL technical data			
General USE			
Contactor			
	AC current	Α	165
Ambient conditions			
Temperature			
Operating temperature			

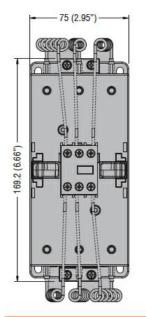


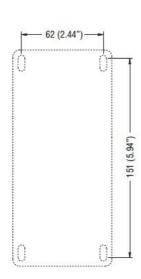


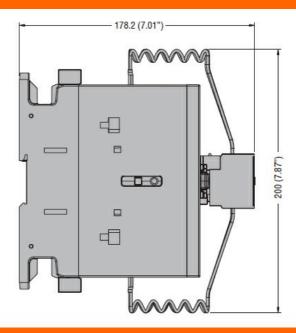
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 220VAC 60HZ

	min max	°C	-50 70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	

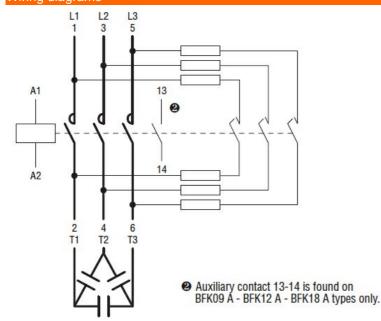
Dimensions [mm (in)]







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



BFK15000A22060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 220VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classification	n	
ETIM 8.0		EC001079 - Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 230VAC 60HZ



Product designation			Power contactor
Product type designation			BFK150
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		A	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
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			
r lexible c/w lug conductor section			



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, PLANTAGE INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, AND AUTOMATION COIL 230VAC 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
Moight				~	35mm 2095
Weight Conductor section				g	2095
Conductor Section	AWG/kcmil conductor s	action			
	AVVG/KCITIII CONDUCTOR S	Section	max		2/0
Operations			IIIdA		2/0
Mechanical life				cycles	15000000
Electrical life				cycles	800000
Safety related data				Cyclos	000000
	Od according to EN/ISO 1	3489-1			
. C. C. Mario lovoi Di	a according to Liviou		rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				0,0.00	yes
AC coil operating					,
Rated AC voltage at 60)Hz			V	230
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
AC average coil consu	mption at 20°C				
	of 60Hz coil powered a	t 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					
	in AC	01 1 110			
		Closing NO		,	4.0
			min	ms	16
		Opening NO	max	ms	32
		Opening NO	min	me	9
			min	ms ms	24
UL technical data			max	ms	۷4
General USE					
Contrai COL	Contactor				
	Contactor		AC current	Α	165
Ambient conditions			AO CUITEIR		
Temperature					
	Operating temperature				
	Sporating temperature				

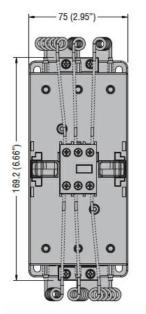


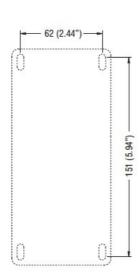


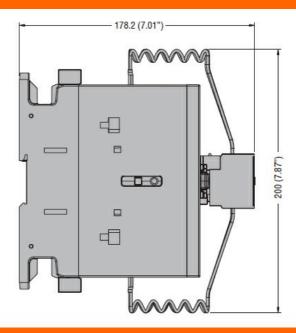
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 230VAC 60HZ

	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

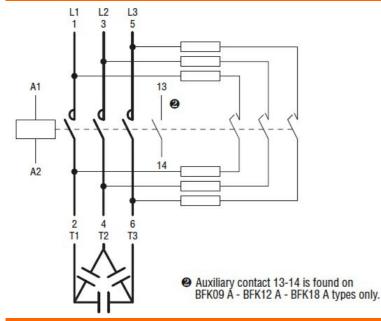
Dimensions [mm (in)]







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



BFK15000A23060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 230VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classifica	tion	
		EC001079 -
ETIM 8.0		Capacitor contactor
		contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 460VAC 60HZ



Product designation				Power contactor
Product type designated Contact characteristic				BFK150
	5		N In	2
Number of poles	II: IFC/FN		Nr. V	3
Rated insulation volta	-			690
Rated impulse withsta	•		kV	8
Operational frequency	y			0.5
		min	Hz	25
IFO Commention of two	s of the same of a compared little	max	Hz	400
	e air thermal current Ith		Α	165
Rated operational pov	wer AC-6b (1≤40°C)	2021/		
		230V	kvar	50
		400V	kvar	100
		440480V	kvar	115
		690V	kvar	150
	current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse				
		gG (IEC)	Α	160
Making capacity (RMS	S value)		Α	1500
Breaking capacity at v	voltage			
		440V	Α	1200
		500V	Α	1025
		690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per	pole (average value)			
		Ith	W	12
Tightening torque for	terminals			
0 0 1		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	Ibin	5.2
Tightening torque for	coil terminal	IIIax	10111	<u> </u>
riginioning torque for	oon torrillial	min	Nm	0.8
			Nm	1
		max		
		min	lbin	0.59
May number of wires	aimultanagualy agnagatahla	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMC/Komil			
	AWG/Kcmil			0/0
	Ele 3 le de la constante de	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 = 100KVAR, AND AUTOMATION

COIL 460VAC 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
Moight				~	35mm 2095
Weight Conductor section				g	2095
Conductor Section	AWG/kcmil conductor s	cotion			
	AVVG/KCITIII COTIQUETOL S	Section	max		2/0
Operations			IIIdA		2/0
Mechanical life				cycles	15000000
Electrical life				cycles	800000
Safety related data				Oy 0100	000000
	Od according to EN/ISO 1	3489-1			
. C. C. Mario lovoi Di	ca according to Envice		rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				0,0.00	yes
AC coil operating					,
Rated AC voltage at 60	0Hz			V	460
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
AC average coil consu	ımption at 20°C				
	of 60Hz coil powered a	t 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					
	in AC				
		Closing NO	_		4.0
			min	ms	16
		0	max	ms	32
		Opening NO		m c	0
			min	ms ms	9
UL technical data			max	ms	24
General USE					
Ochiciai UOL	Contactor				
	Jonado		AC current	Α	165
Ambient conditions			AO CUITEIR		
Temperature					
	Operating temperature				
	Sporating temperature				

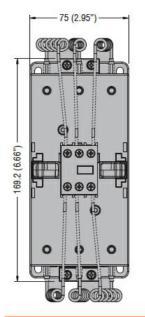


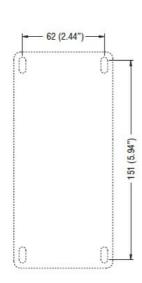


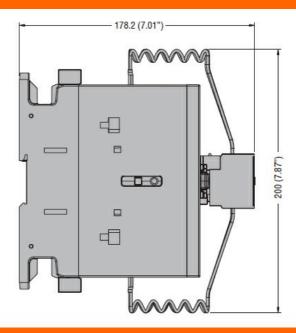
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 460VAC 60HZ

	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

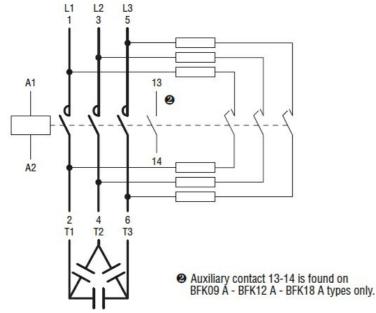
Dimensions [mm (in)]







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



BFK15000A46060

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 460VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classification	n	
ETIM 8.0		EC001079 - Capacitor contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 575VAC 60HZ



Product designation			Power contactor
Product type designation			BFK150
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		A	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
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			
r lexible c/w lug conductor section			



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, AND AUTOMATION COIL 575VAC 60HZ

			max	mm²	70
	tion according to IEC/EN	60529			IP20 front
Mechanical features					
Operating position					V
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
Moight				~	35mm 2095
Weight Conductor section				g	2095
Conductor Section	AWG/kcmil conductor s	cotion			
	AVVG/KCITIII CONDUCTOR S	Section	max		2/0
Operations			IIIdA		2/0
Mechanical life				cycles	15000000
Electrical life				cycles	800000
Safety related data				Oy 0100	000000
	Od according to EN/ISO 1	3489-1			
. C. C. Mario lovoi Di	a according to Liviou		rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility				0,0.00	yes
AC coil operating					,
Rated AC voltage at 60)Hz			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
			max	%Us	55
AC average coil consu	mption at 20°C				
	of 60Hz coil powered a	t 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					
	in AC	0			
		Closing NO			4.0
			min	ms	16
		On aning NO	max	ms	32
		Opening NO		ma	0
			min	ms ms	9
UL technical data			max	ms	24
General USE					
General USE	Contactor				
	Ounaciui		AC current	Α	165
Ambient conditions			AC current		100
Temperature					
Tomporature	Operating temperature				
	operating temperature				

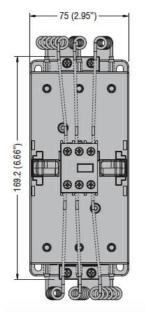


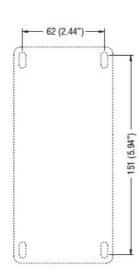


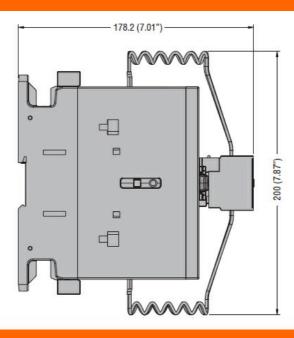
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 575VAC 60HZ

	min max	°C °C	-50 70
Storage temperature			_
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

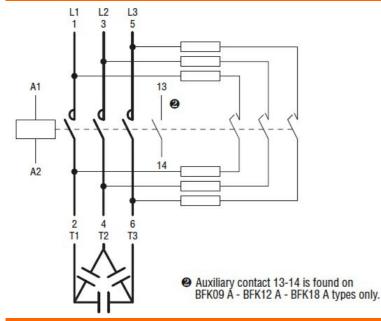
Dimensions [mm (in)]







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



BFK15000A57560

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 575VAC 60HZ

Certificates		
	CCC	
	cULus	
ETIM classification		
ETIM 8.0		EC001079 - Capacitor contactor