

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



Product type designation   SFK115	Product designation			Power contactor
Number of poles				BFK115
Rated insulation voltage Ui IEC/EN         V         690           Rated impulse withstand voltage Uimp         kV         8           Operational frequency         min         Hz         25           max         Hz         400           IEC Conventional free air thermal current lth         A         160           Rated operational power AC-6b (T≤40°C)         230V         kvar         45           400V         kvar         75         440480V         kvar         85           690V         kvar         135         5         5         690V         kvar         135         5           Short-time allowable current for 10s (IEC/EN60947-1)         A         920         2         7         7         440         45         400         85         690V         A         150         8	Contact characteristics			
Rated impulse withstand voltage Ulimp	Number of poles		Nr.	3
Department   Paragraph   P	Rated insulation voltage Ui IEC/EN		V	690
Main	Rated impulse withstand voltage Uimp		kV	8
EC Conventional free air thermal current lth	Operational frequency			
EC Conventional free air thermal current Ith Rated operational power AC-6b (Ts40°C)   230V   kvar   45   400V   kvar   75   440480V   kvar   85   690V   kvar   135   800V   kvar   135   800V		min	Hz	25
Rated operational power AC-6b (T≤40°C)		max	Hz	400
A	IEC Conventional free air thermal current Ith		Α	160
A 400	Rated operational power AC-6b (T≤40°C)			
A40480V   kvar   135   kv		230V	kvar	45
Short-time allowable current for 10s (IEC/EN60947-1)		400V	kvar	75
Short-time allowable current for 10s (IEC/EN60947-1)		440480V	kvar	85
Protection fuse   gG (IEC)		690V	kvar	135
Making capacity (RMS value)	Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Making capacity (RMS value)	Protection fuse			
Breaking capacity at voltage		gG (IEC)	Α	160
A 440V   A 1200   500V   A 850   690V   A 905   Resistance per pole (average value)   mΩ 0.45	Making capacity (RMS value)		Α	1500
Soov   A   850	Breaking capacity at voltage			
Resistance per pole (average value)   mΩ   0.45		440V	Α	1200
Resistance per pole (average value)   mΩ   0.45		500V	Α	850
Power dissipation per pole (average value)    Ith   W   11.5     Tightening torque for terminals		690V	Α	905
Ith   W   11.5	Resistance per pole (average value)		$m\Omega$	0.45
Tightening torque for terminals	Power dissipation per pole (average value)			
Min   Nm   6   max   Nm   7   min   Ibin   4.4   max   Ibin   5.2		Ith	W	11.5
Max   Nm   7   min   Ibin   4.4   max   Ibin   5.2	Tightening torque for terminals			
Min		min	Nm	6
Tightening torque for coil terminal		max	Nm	7
Tightening torque for coil terminal    min   Nm   0.8   max   Nm   1   min   Ibin   0.59   max   Ibin   0.74		min	lbin	4.4
Min   Nm   0.8   max   Nm   1   min   Ibin   0.59   max   Ibin   0.74		max	lbin	5.2
Max number of wires simultaneously connectable   Mr.   2	Tightening torque for coil terminal			
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         2/0           Flexible w/o lug conductor section         min mm² nm² nm² nm² nm² nm² nm² nm² nm² nm		min	Nm	0.8
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         2/0           Flexible w/o lug conductor section         min mm² nm² nm² nm² nm² nm² nm² nm² nm² nm		max	Nm	1
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         2/0           Flexible w/o lug conductor section         min mm² nm² 1.5 max mm² 70         1.5 max mm² 70		min	Ibin	0.59
AWG/Kcmil		max	Ibin	0.74
AWG/Kcmil    max   2/0	Max number of wires simultaneously connectable		Nr.	2
max   2/0	Conductor section			
Flexible w/o lug conductor section  min mm² 1.5  max mm² 70  Flexible c/w lug conductor section	AWG/Kcmil			
min mm² 1.5 max mm² 70  Flexible c/w lug conductor section		max		2/0
	Flexible w/o lug conductor section			
Flexible c/w lug conductor section		min	mm²	1.5
· · · · · · · · · · · · · · · · · · ·		max	mm²	70
min mm² 1.5	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
Fixing			allowable		±30° Screw / DIN rail 35mm
Weight				g	2095
Conductor section					
	AWG/kcmil conductor	section	max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 60	0Hz			V	230
AC operating voltage					
	of 60Hz coil powered a				
		pick-up	_		
			min	%Us	80
			max	%Us	110
		drop-out		0/11	
			min	%Us	20
May avalog frequency			max	%Us	55
Max cycles frequency Mechanical operation				ovoloo/b	1500
Operating times				cycles/h	1500
Average time for Us co	ontrol				
Average time for US Co	in AC				
	III AU	Closing NO			
		Ciosing INC	min	ms	16
			max	ms	32
		Opening NO	max		J <b>-</b>
		i	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	160
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000



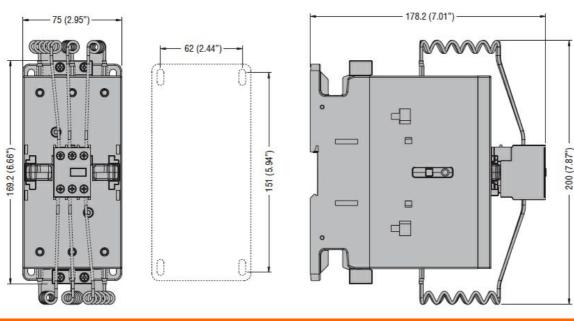
**ENERGY AND AUTOMATION** 

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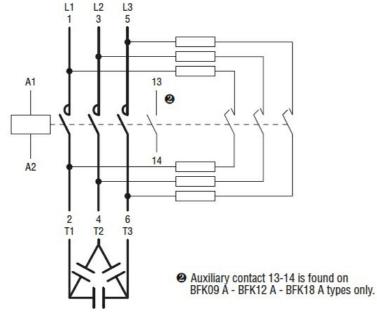
#### Resistance & Protection

Pollution degree 3

#### **Dimensions**



# Wiring diagrams



# Certifications and compliance

#### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

## Certificates

CCC

cULus

#### ETIM classification



## BFK11500A23060

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ETIM 8.0

EC001079 -Capacitor contactor