## BFK11500A12060



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



				60-
Product designation				Power contactor
Product type designa	ition			BFK115
Contact characteristic				
Number of poles			Nr.	3
Rated insulation volta	age Ui IEC/EN		V	690
Rated impulse withsta			kV	8
Operational frequenc				•
opolational noquone	<i>y</i>	min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith	Παλ	A	160
Rated operational po			~	100
	wei AC-00 (1340 C)	230V	lavor	15
			kvar kvar	45 75
		400V	kvar	75
		440480V	kvar	85
Oh ant time a allowed ha		690V	kvar	135
	current for 10s (IEC/EN60947-1)		A	920
Protection fuse		o ((= o)		
		gG (IEC)	A	160
Making capacity (RM			Α	1500
Breaking capacity at	voltage			
		440V	A	1200
		500V	Α	850
		690V	Α	905
Resistance per pole (average value)			mΩ	0.45
Power dissipation pe	r pole (average value)			
		lth	W	11.5
Tightening torque for	terminals			
		min	Nm	6
		max	Nm	7
		min	Ibin	4.4
		max	Ibin	5.2
Tightening torque for	coil terminal			
5 5 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
		max	Ibin	0.74
Max number of wires	simultaneously connectable	Пах	Nr.	2
Conductor section			111.	2
	AWG/Kcmil			
		mov		2/0
	Elevible w/e lug conductor acction	max		2/0
	Flexible w/o lug conductor section			4 5
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			

mm²

min

1.5



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INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 120VAC 60HZ max mm2 70

Mechanical features         normal allowable         Vertical plan 30°           Operating position         normal allowable         Vertical plan 30°           Weight         0         Screw / DIN rail 30°           Weight         g         2095           Conductor section         max         2/0           AWG/komil conductor section         max         2/0           perations         cycles         15000000           Gechanical life         cycles         15000000           Electrical life         cycles         400000           mechanical load         cycles         400000           Iterformance level B100 according to EN/SO 13489-1         rated load         cycles         400000           Iterformance level B100 according to EN/SO 13489-1         rated Ac volage at 00Hz         vertice         15000000           Iterformance level B100 according to EN/SO 13489-1         rated Ac volage at 00Hz         vertice         15000000           Iterformance level B100 according to EN/SO 13489-1         min %Us         80         max %Us         55           Iterformance level B100 according to EN/SO 13489-1         min %Us         80         max %Us         55           Iterformance level B100 according to En/SO 000         max %Us         55         55 <th></th> <th></th> <th></th> <th>max</th> <th>mm²</th> <th>70</th>				max	mm²	70
Aperating position         normal allowable         Vertical plan allowable           iking		tion according to IEC/EN	60529			IP20 front
normal allowable         +30° +30°           wiking         Screw / DIN rai 35mm           Veight         g         2095           Conductor section         max         2/0           AWG/kcmil conductor section         max         2/0           bechanical life         cycles         1500000           idechanical loger along         v         120           ided AC vologe at 60Hz         v         120           ided AC vologe at 60Hz         v         110           drop-out         min         %Us         80           max         %Us         20         in AC           in AC         closing NO         min         ms         150           operating lifes         v         150         in AC         150           in AC         closing NO         min         ms						
allowable         ±30°           ixing         Screw / DIN rai           Veight         g         2095           Conductor section         max         2/0           AWG/kcmil conductor section         max         2/0           perations         cycles         15000000           iscerve allowable         cycles         15000000           iscerve allowable         cycles         15000000           iscerve allowable         cycles         15000000           McC compatibility         cycles         15000000           MC compatibility         yes         15000000           MC compatibility         v         100           MC conserved at 60Hz         V         100           MC conserved at 60Hz         v         100           min         min         %Us         55           fax cycles frequency         min         min         min           perating incerved         min         min	Operating position					
ixing         Screw / DIN rai 35mm           Veight         g         2095           Conductor section         max         2/0           AWG/kcmil conductor section         max         2/0           Dechanical life         cycles         15000000           iectrical life         cycles         400000           isadel X vollage at 60Hz         ves         ves           C coll operating voltage         of 60Hz coil powered at 60Hz         ves           pick-up         min         %Us         55           feechanical operation         cycles/h         1500           operating times         cycles frequency         max         ms         32 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
txmg         35mm           Veight         g         2095           Conductor section         max         2/0           AWG/kcmil conductor section         max         2/0           Deparations         cycles         15000000           isertical life         cycles         15000000           isertical life         cycles         1200000           isertical life         cycles         400000           isertical life         cycles         15000000           isertical life         cycles         400000           isertical life         cycles         400000           isertical life         cycles         15000000           isertical life         cycles         400000           isertical life         cycles         15000000           isertical life         cycles         15000000           isertical life         v         120           ice coll operating voltage         of 60Hz coil powered at 60Hz         v         10           isertical life         cycles/h         100         min         %Us         10           isertical operation         cycles frequency         min         ms         32           isertical life				allowable		
AWG/kcmil conductor section         max         2/0           /perations         max         2/0           /perations         cycles         15000000           Bechanical life         cycles         1200000           Stery related data         rated load         cycles         40000           mechanical level B10d according to EN/ISO 13489-1         rated load         cycles         40000           MIC compatibility         yes         5000000         yes         15000000           MIC compatibility         yes         15000000         yes         15000000           MIC compatibility         yes         yes         15000000         15000000           MIC compatibility         yes         yes         120         15000000           MIC compatibility         yes         yes         15000000         100           MIC compatibility         yes         120         120         120           C operating voltage         of 60Hz coil powered at 60Hz         110         110         110           drop-out         min         %US         55         142         120           Verage time for Us control         in AC         cycles frequency         in AC         1500	Fixing					
AWG/kcmil conductor section         max         2/0           /perations         max         2/0           /perations         cycles         15000000           Bechanical life         cycles         1200000           Stery related data         rated load         cycles         40000           mechanical level B10d according to EN/ISO 13489-1         rated load         cycles         40000           MIC compatibility         yes         5000000         yes         15000000           MIC compatibility         yes         15000000         yes         15000000           MIC compatibility         yes         yes         15000000         15000000           MIC compatibility         yes         yes         120         15000000           MIC compatibility         yes         yes         15000000         100           MIC compatibility         yes         120         120         120           C operating voltage         of 60Hz coil powered at 60Hz         110         110         110           drop-out         min         %US         55         142         120           Verage time for Us control         in AC         cycles frequency         in AC         1500	Weight				g	2095
max         2/0           Operations         scycles         15000000           Rechanical life         cycles         120000           Starty related data         rated load         cycles         40000           mechanical load         cycles         40000         mechanical load         cycles         40000           MC compatibility         yes         500000         yes         500000         yes           Coll operating         of 60Hz coil powered at 60Hz         yes         120         yes           C operating voltage         of 60Hz coil powered at 60Hz         yes         110         yes           C operating voltage         of 60Hz coil powered at 60Hz         yes         110         yes           C operating voltage         of 60Hz coil powered at 60Hz         yes         110         yes           Max cycles frequency         max         %Us         50         100         yes           Max cycles frequency         control         min         %Us         50         100           Max cycles frequency         control         min AC         yes         100         100           Userage time for Us control         in AC         contractor         xmax         xmax	Conductor section					
max         2/0           Operations         scycles         15000000           Rechanical life         cycles         120000           Starty related data         rated load         cycles         40000           mechanical load         cycles         40000         mechanical load         cycles         40000           MC compatibility         yes         500000         yes         500000         yes           Coll operating         of 60Hz coil powered at 60Hz         yes         120         yes           C operating voltage         of 60Hz coil powered at 60Hz         yes         110         yes           C operating voltage         of 60Hz coil powered at 60Hz         yes         110         yes           C operating voltage         of 60Hz coil powered at 60Hz         yes         110         yes           Max cycles frequency         max         %Us         50         100         yes           Max cycles frequency         control         min         %Us         50         100           Max cycles frequency         control         min AC         yes         100         100           Userage time for Us control         in AC         contractor         xmax         xmax		AWG/kcmil conductor	section			
Aperations         vs/let/line         cycles         1500000           iscertical life         cycles         1200000         iscertical life         cycles         1200000           isately related data         rated load         cycles         400000         mechanical load         cycles         400000           isately related data         rated load         cycles         400000         mechanical load         cycles         400000           isated AC voltage at 60Hz         V         120 <td></td> <td></td> <td></td> <td>max</td> <td></td> <td>2/0</td>				max		2/0
Acchanical life         cycles         1500000           Idextrical life         cycles         120000           Idety related data         rated load         cycles         400000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         400000           Idex compatibility         yes         500000         15000000           Idex compatibility         yes         40000         1500000           Idex control ge at 60Hz         V         120         Coll operating voltage         120           C operating voltage         of 60Hz coll powered at 60Hz         yes         110         100           Group-out         min         %US         80         100         100           drop-out         min         %US         20         55         55           Asx cycles frequency         cycles frequency         1500         100	Operations					
ilectrical life cycles 120000 iartery related data verformance level B10d according to EN/ISO 13489-1 rated load cycles 40000 mechanical load cycles 40000 cycles 1500000 vers C coli operating C contactor C contactor					cvcles	15000000
iafely related data Performance level B10d according to EN/ISO 13489-1 Performance level B10d according to EN/ISO 14489-1 Performance level B10d according to E					-	
Action         rate load         cycles         400000           imachanical load         cycles         400000         400000           imachanical load         cycles         400000         400000           imachanical load         cycles         40000         400000           imachanical load         cycles         40000         40000           imachanical load         cycles         40000         40000           imachanical load         cycles         40000         40000           imachanical load         cycles         120         500000           imachanical load         of 60Hz coil powered at 60Hz         100         100           imachanical load         of 60Hz coil powered at 60Hz         min         %Us         80           imachanical operation         of 60Hz coil powered at 60Hz         min         %Us         20           imachanical operation         worea         worea         %Us         20           imachanical operation         worea         isoo         55           idechanical operation         cycles/h         1500           operating times         worea         min         ms         16           imachanis         in AC         Closing NO </td <td></td> <td></td> <td></td> <td></td> <td>- ,</td> <td></td>					- ,	
rated load mechanical load         cycles         400000 (sycles           MC compatibility         yes           C coll operating         v         120           C coll operating voltage         v         120           C operating voltage         of 60Hz coil powered at 60Hz pick-up         min         %Us         80           Main         %Us         80         min         %Us         100           drop-out         min         %Us         20         max         %Us         55           As cycles frequency         min         %Us         20         max         %Us         55           Mechanical operation         cycles/h         15000         55         55         55           Mechanical operation         cycles/h         1500         55         55         55           Mechanical operation         cycles/h         1500         55         55         55           Mechanical operation         cycles/h         1500         55         55         56           Mechanical operation         cycles/h         1500         55         56         56           Mechanical operation         cycles/h         1500         50         56         50		d according to EN/ISO	13489-1			
mechanical load         cycles         1500000           CC coil operating         vs         vs           CC coll operating voltage         v         120           VC operating voltage         of 60Hz coil powered at 60Hz pick-up         v         120           MC operating voltage         of 60Hz coil powered at 60Hz pick-up         min         %Us         80           Max         %Us         110         min         %Us         20           Max         %Us         20         max         %Us         20           Max         %Us         20         max         %Us         55           Aax cycles frequency         min         %Us         55         55           Aax cycles frequency         cycles/h         1500         55           Aax cycles frequency         cycles/h         1500         55           Max cycles frequency         cycles/h         1500         55           Mechanical operation         cycles/h         1500         55           Max cycles frequency         min         ms         16           Verage time for Us control         min         ms         16           Max         max         ms         24				rated load	cycles	400000
MC compatibility       yes         Q coil operating       v       120         C operating voltage       of 60Hz coil powered at 60Hz       pick-up         min       %Us       80         max       %Us       110         drop-out       min       %Us       20         Max cycles frequency       min       %Us       55         At cycles frequency       cycles/h       1500         Operating times       cycles/h       1500         Verage time for Us control       in AC       160         Opening NO       min       ms       16         Max       ms       32       0       0         UL technical data       0       min       ms       24         UL technical data       0       min       ms       24         UL technical data       0       0       0       0       0         min       ms       9       0       0       0       0       0         unbient conditions       contactor       AC current       A       160       0         wrbient conditions       min       °C       -50       0       0       0       70         <					-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	EMC compatibility				0,000	
tated AC voltage at 60Hz         V         120           C operating voltage         of 60Hz coil powered at 60Hz         pick-up         min         %Us         80           pick-up         min         %Us         80         max         %Us         10           drop-out         min         %Us         20         max         %Us         55           Ack cycles frequency         werage time for Us control         cycles/h         1500         perating times           werage time for Us control         in AC         Closing NO         min         ms         32           Opening NO         min         ms         16         max         ms         32           Ut technical data         max         ms         24         32         32           Opening NO         min         ms         9         32         32           Max in to actor         min         ms         24         32         32           It technical data         max         ms         24         32         32           Group cont control         min         max         160         32         32           Group cont control         max         max         160         32 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>yes</td>						yes
$ \begin{array}{c} \text{C operating voltage} \\ \text{of 60Hz coil powered at 60Hz} \\ \text{pick-up} \\ & & & & & & & & & & & & & & & & & & $		∩Hz			V	120
of 60Hz coil powered at 60Hz         pick-up         min         %Us         80           max         %Us         110           drop-out         min         %Us         20           max         %Us         55           fax cycles frequency         min         %Us         50           As cycles frequency         cycles/h         1500           As cycles frequency         cycles/h         1500           As cycles frequency         cycles/h         1500           Operating times         cycles/h         1500           Verage time for Us control in AC         Closing NO         min         ms         16           Max         ms         16         max         ms         24           L technical data         max         ms         26           Contactor         A         160         6		0112			V	120
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	to operating voltage	of 6047 opil powered a				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ріск-ир	min	0/ L le	80
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $						
$\begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$			drop out	IIIdX	/005	110
$\begin{array}{c c c c c c } max & \%Us & 55 \\ \hline \mbox{Aax cycles frequency} & & & & & & & & \\ \mbox{Aechanical operation} & & & & & & & & & & \\ \mbox{Aechanical operation} & & & & & & & & & & & & & \\ \mbox{Aechanical operation} & & & & & & & & & & & & & & & & \\ \mbox{Aechanical operation} & & & & & & & & & & & & & & & & & & &$			diop-out	min	0/ L lo	20
Machanical operation       cycles/h       1500         Operating times       severage time for Us control       in AC         In AC       Closing NO       min       ms       16         Opening NO       min       ms       32         Opening NO       min       ms       9         IL technical data       min       ms       9         Contactor       AC current       A       160         Accurrent       A       160 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
Mechanical operation cycles/h 1500  Deperating times  Werage time for Us control in AC  Closing NO  min ms 16 max ms 32 Opening NO min ms 9 max ms 24  L technical data  Deneral USE Contactor AC current A 160  max °C 70  Storage temperature min °C -60 max °C 80	Max avalas fraguenav			IIIdX	%05	55
Operating times         average time for Us control         in AC         Closing NO         min       ms         Max       ms					ovelee/b	1500
werage time for Us control       in AC         Closing NO $min ms 16$ max       ms       32         Opening NO $min ms$ 9         min       ms       9         max       ms       24         Lechnical data         Seneral USE         Contactor       AC current       A       160         Minim °C - 50         max       °C       70         Storage temperature $min$ °C       -50         max       °C       70         Storage temperature $min$ °C       -60 $max$ °C       80					cycles/n	1500
in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 L technical data Elemeral USE Contactor Contactor AC current A 160 Mbient conditions remperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -50 max °C 80		- un fun a l				
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Average time for Us co					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		IN AC				
Max     ms     32       Min     ms     9       max     ms     24       UL technical data			Closing NO			
Opening NO       min       ms       9         max       ms       24         JL technical data           General USE       Contactor          Contactor       AC current       A       160         vmbient conditions            Temperature       Operating temperature           Operating temperature       min       °C       -50         Storage temperature       min       °C       -60         max       °C       80						
min ms 9 max ms 24 JL technical data General USE Contactor AC current A 160 AC current A 160 AC current A 160 Contactor Contactor AC current A 160 min °C -50 max °C 70 Storage temperature min °C -60 max °C 80				max	ms	32
max       ms       24         JL technical data			Opening NO			0
JL technical data         General USE         Contactor         AC current       A         AC current       A         AC current       A         Mbient conditions         Temperature         Operating temperature         min       °C         Storage temperature         min       °C         Min       °C         AC current       Min         Min       °C         Min						
General USE       Contactor       AC current       A       160         AC current       A       160         Imbient conditions       Image: Contactor       Image: Contactor         Temperature       Min       °C       -50         Image: Contactor       Min       °C       -50         Storage temperature       Min       °C       -60         Image: Contactor       Min       °C       80	III and the later			max	ms	24
Contactor       AC current       A       160         Ambient conditions       Image: Contactor       Image: Contactor       Image: Contactor         Temperature       Operating temperature       Image: Contactor       Image: Contactor         Model       Image: Contactor       Image: Contactor       Image: Contactor         Storage temperature       Image: Contactor       Image: Contactor       Image: Contactor         Min       °C       -60       Image: Contactor       Image: Contactor						
AC current A 160           AC current         A         160           Imminiation conditions         Imminiation	General USE					
Ambient conditions         Femperature         Operating temperature         min       °C         max       °C         Storage temperature         min       °C         min       °C         storage temperature         min       °C         min       °C         storage temperature         min       °C         storage temperature         min       °C         storage temperature		Contactor				100
Temperature       Min       °C       -50         max       °C       70         Storage temperature       min       °C       -60         max       °C       80				AC current	A	160
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80						
min °C -50 max °C 70 Storage temperature min °C -60 max °C 80	Temperature					
max °C 70 Storage temperature min °C -60 max °C 80		Operating temperature				
Storage temperature min °C -60 max °C 80				min		
min °C -60 max °C 80				max	°C	70
max °C 80		Storage temperature				
				min		
Iax altitude m 3000				max	<u> </u>	
	Max altitude				m	3000

BFK11500A12060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

### BFK11500A12060

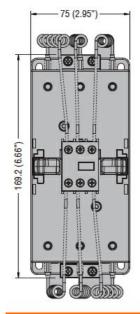
3

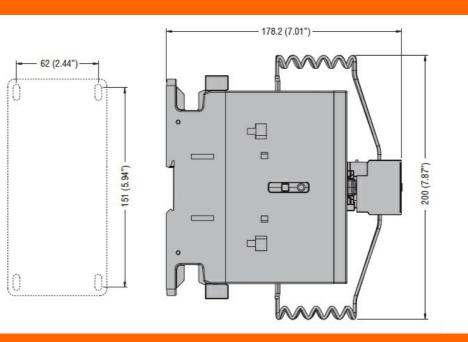


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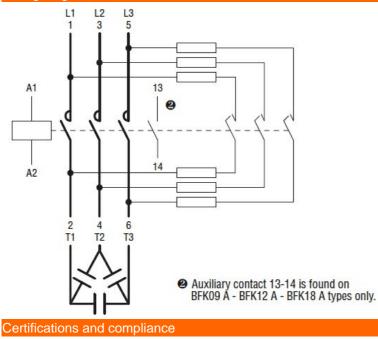
#### Resistance & Protection

### Pollution degree Dimensions





Wiring diagrams



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	

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ETIM 8.0

EC001079 -Capacitor contactor