

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 50/60HZ



Product designation				Power contactor
Product type designat	ion			BFK18
Contact characteristic				-
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		А	32
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
	current for 10s (IEC/EN60947-1)		A	200
Protection fuse				
		gG (IEC)	A	40
Making capacity (RMS			Α	180
Breaking capacity at v	oltage	((0) (
		440V	A	144
		500V	A	120
Desistance normale (/		690V	A	94
Resistance per pole (a			mΩ	2.5
Power dissipation per	pole (average value)	lth	W	2.6
Tightening torque for t	rorminala	lth	VV	2.0
rightening torque for i	eminais	min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	coil terminal	max	10111	1.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1

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		max	mm²	4
	Flexible with insulated spade lug conductor	section		
		min	mm²	1
		max	mm²	4
· · · ·	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	460
Conductor section			3	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	cteristics			
Thermal current Ith			А	10
EC/EN 60947-5-1 des	signation			A600 - P600
Operating current AC1	5			
		230V	А	3
		400V	А	1.9
		500V	Α	1.4
Operating current DC1	2			
		110V	А	5.7
Operating current DC1	3			
		24V	А	5.7
		48V	Α	2.9
		60V	А	2.3
		110V	A	1.25
		125V	А	1.1
		220V	A	0.6
		600V	A	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	400000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1	ا مدالد منهمة	ov - 1	400000
		rated load	cycles	400000
Mirror contato accordia		mechanical load	cycles	20000000 VES
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage	0,001 iE		v	_ :
to operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	Plot up	min	%Us	80
		max	%Us	110
	drop-out	max		
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			

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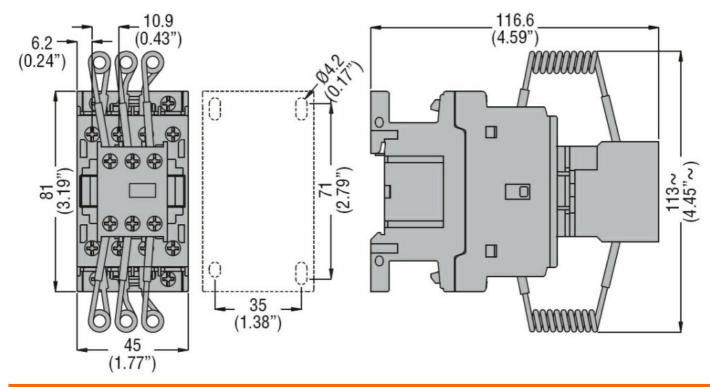
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		min	%Us	85
		max	%Us	110
	drop-out		,	
	ulop-out		0/11-	00
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	75
		holding	VA	9
		noiding	V/1	3
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Discipation at halding	<20°C 50H-7		 W	2.5
Dissipation at holding			٧V	2.3
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	control			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC	max	me	20
				4.4
		min	ms	14
		max	ms	28
UL technical data				
General USE				
	Contactor			
	Contactor	AC current	А	32
	Auxiliant contact-		~	52
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Contact rating of auvil	iary contacts according to UL	200000		A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature	max		-
	olorage lemperalure		•	<u> </u>
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	on			
Pollution degree				3
Dimensions [mm (in)]				



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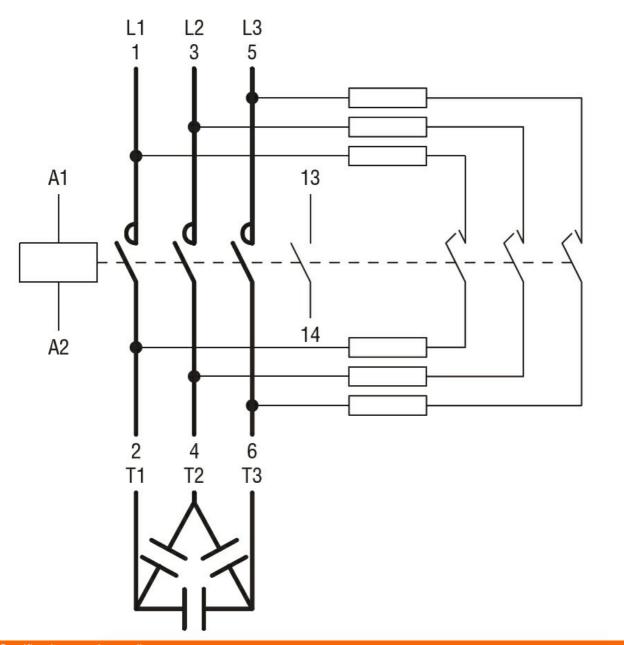


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 50/60HZ





Certifications and compliance

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Comp	nance

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	
	EAC	
ETIM classification	1	
		EC001079 -
ETIM 8.0		Capacitor

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contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 50/60HZ



Product designation				Power contactor
Product type designat				BFK18
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta	Ind voltage Uimp		kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	32
Rated operational pow	ver AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	200
Protection fuse				
		gG (IEC)	А	40
Making capacity (RMS	S value)		А	180
Breaking capacity at v	oltage			
		440V	А	144
		500V	А	120
		690V	А	94
Resistance per pole (a	average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	2.6
Tightening torque for t	terminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for	coil terminal			
0 0 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			-
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			-
		min	mm²	1
				•

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	max	mm²	4
Flexible with insulated spade lug conductor se			
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when
			properly wired
Mechanical features			
Operating position	normal		Vertical plan
	allowable		±30°
	anowabic		Screw / DIN rai
Fixing			35mm
Weight		g	460
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	A	1.4
Operating current DC12			
	110V	A	5.7
Operating current DC13			
	24V	A	5.7
	48V	A	2.9
	60V	A	2.3
	110V	A	1.25
	125V 220V	A	1.1 0.6
	220V 600V	A A	0.8
Operations	6007	A	0.1
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data		0y0l03	400000
Performance level B10d according to EN/ISO 13489-1			
,	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			·
Rated AC voltage at 50/60Hz		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			

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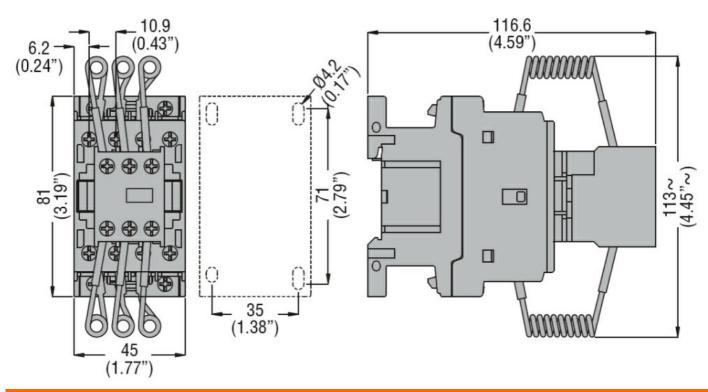


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out		,	
	diop out	min	0/110	20
		min	%Us	20
		max	%Us	55
AC average coil consu	imption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of EQ/COLLE and noward at COLLE	noiding	v/ (•
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
	·	in-rush	VA	75
		holding	VA	9
Disaination (1) 11		noiuing		
Dissipation at holding :	≤20°C 50HZ		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			-	
Average time for Us co	ontrol			
Average time for US C				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ma	10
			ms	
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
UL technical data				
General USE				
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
	· · · ·	AC voltage	V	600
		AC current		10
			A	
		DC voltage	V	250
		DC current	А	1
Contact rating of auxili	ary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
remperature	On constinue to man construct			
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
				~
Dimensions [mm (in)]				



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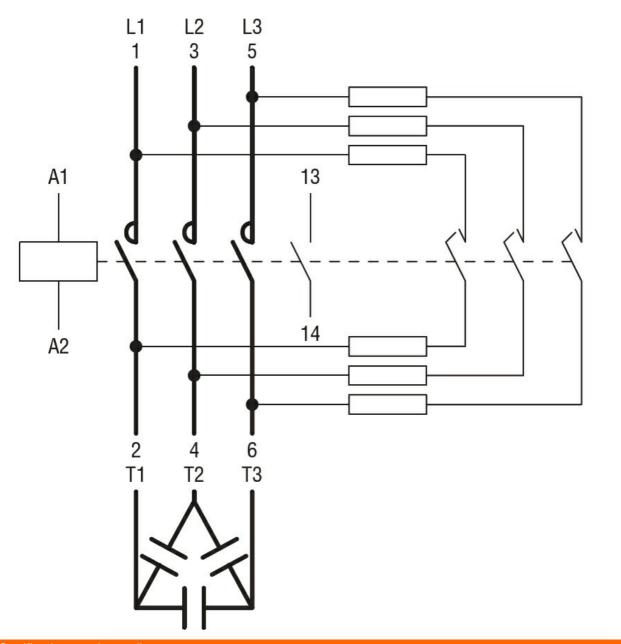


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 50/60HZ





Certifications and compliance

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Comp	nance
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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

BFK1810A048

contactor

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 110VAC 50/60HZ



BFK1810A110

Product designation Power contactor Product type designation EFK18 Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 IEC Conventional frequency min Hz 25 IEC Conventional frequency 230V kvar 9 4000 Kavar 9 400V kvar 15 Rated operational power AC-6b (T540°C) 230V kvar 15 440480V kvar 15 4400480V kvar 15 440480V kvar 16 Making capacity (RMS value) A 200 Portection fuse 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Power discipation per pole (average value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 120 690V A 120 10 11					
Contact characteristics Nr. 3 Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp KV 6 Operational frequency min Hz 25 max Hz 400 15 IEC conventional free air thermal current th A 32 Rated operational power AC-6b (Ts40°C) 230V kvar 9 400V kvar 15 440480V kvar 15 440480V kvar 15 440480V kvar 17 690V kvar 20 5 7 400V kvar 16 fidthing capacity (RMS value) A 180 8 141 500V 120 6 Breaking capacity at voltage 440V A 144 500V 3 120 Resistance per pole (average value) mnQ 2.5 7 7 1 1 1 1 1 1	Product designation				Power contactor
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp KV 6 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 9 400V kvar 9 400V kvar 9 400V kvar 17 690V kvar 20 20 Vorar 17 690V kvar 20 20 Protection fuse 200 Protection fuse 20 Protection fuse gG (IEC) A 40 440V A 144 Soov A 120 650V A 144 Soov A 120 650V A 144 Soov A 120 650V A 141					BFK18
Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 IEC conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 17 690V kvar 17 690V kvar 20 Portection fuse 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 400 400 A 180 Breaking capacity (RMS value) M A 120 690V A 94 40V A 144 500V A 120 690V A 94 40V A 140 50V A 120 690V A 94 A 10 15 Tightening torque for te		5		Nir	3
Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 16C Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440 .400 kvar 15 440 .400 kvar 17 690V kvar 15 .440 .400 kvar 16 9 400V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fus 400 A 180 Breaking capacity (RMS value) A 180 A 180 Breaking capacity at voltage 440V A 144 500V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Tightening torque for coil terminals min Nm 1.5 max					
Operational frequency min Hz 25 max Hz 400 400 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440480V kvar 15 440480V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse GG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage A 144 500V A 144 500V A 142 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for coil terminal min Ith W 2.6 Tightening torque for coil terminal min 1.1 max Nm 1.8 min 1.8 min		-			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				ιτν	0
max Hz 400 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 4000V kvar 15 440480V kvar 17 680V kvar 10 680V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 144 Breaking capacity at voltage 440V A 120 690V A 120 690V A 144 500V A 120 690V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 1.5 max Nm 1.8 1.1 Tightening torque for coil terminal min Nm 1.5 1.4 1	operational nequency		min	Hz	25
IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T540°C) 230V kvar 9 4000 kvar 15 440480V kvar 17 690V kvar 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage Breaking capacity at voltage 440V A 144 500V A 120 690V A 144 500V A 120 690V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Tightening torque for terminals min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.6 1.1 Max number of wires simultaneously connectable <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
230V kvar 9 440U kvar 15 440U480V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage Protection fuse 440V A 144 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 140 Breaking capacity at voltage 440V A 144 Source and the state of th	IEC Conventional free	air thermal current Ith			
$\begin{array}{c ccccc} & & & & & & & & & & & & & & & & &$					-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $, , , , , , , , , , , , , , , , , , ,	230V	kvar	9
690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) min Nm 1.5 max Tightening torque for terminals min Nm 1.5 max Nm 1.6 Tightening torque for coil terminal min Nm 1.5 max Nm 1.6 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 max 10 max 10			400V	kvar	
Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminals min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section max 10 max 10 max <t< td=""><td></td><td></td><td>440480V</td><td>kvar</td><td>17</td></t<>			440480V	kvar	17
Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 0.8 max Ibin 0.8 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section min max 10 max max 10 Flexible c/w lug conductor section min max max 1 max max 6			690V	kvar	20
gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Max number of wires simultaneously connectable Nr 2 Conductor section Nr 2 Conductor section max 10 Texible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 max 1	Short-time allowable	current for 10s (IEC/EN60947-1)		А	200
Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mIn W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 1.5 Tightening torque for coil terminal min Nm 1.5 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min min mm² 1 Max min min mm² 1 1 Flexible c/w lug conductor section min min mm² 1	Protection fuse				
$\begin{tabular}{ c c c c c } \hline Breaking capacity at voltage & 440V & A & 144 \\ 500V & A & 120 \\ \hline 690V & A & 94 \\ \hline Resistance per pole (average value) & m\Omega & 2.5 \\ \hline Power dissipation per pole (average value) & & & & \\ \hline Tightening torque for terminals & & & & & \\ \hline Tightening torque for terminals & & & & & \\ \hline Tightening torque for coil terminal & & & & & & \\ \hline Tightening torque for coil terminal & & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil terminal & & & & & \\ \hline Tightening torque for coil t$			gG (IEC)	А	40
440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) th W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 1.8 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section 2 Conductor section Max 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 Flexible c/w lug conductor section min mm² 1 1 max max 10	Making capacity (RMS	S value)		А	180
500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nin 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Imax 10 Flexible w/o lug conductor section min mm² 1 max 10 Flexible c/w lug conductor section <td>Breaking capacity at v</td> <td>voltage</td> <td></td> <td></td> <td></td>	Breaking capacity at v	voltage			
$\begin{tabular}{ c c c c c c } \hline & & & & & & & & & & & & & & & & & & $				А	
Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 1				А	
Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 Tightening torque for coil terminal min Nm 0.8 max Nm 1.5 Nm 0.8 max Nm 1.6 Nm 0.8 max Nm 1.5 Nm 0.8 max Ibin 0.74 Nm Nm 2 Conductor section Max 10 Nm 10 Nm Flexible w/o lug conductor section max mm² 1 Nm 1 max mm² 1 Nm 10 Nm <th< td=""><td></td><td></td><td>690V</td><td></td><td></td></th<>			690V		
Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min mm² 1 1 Flexible c/w lug conductor section min mm² 1 1				mΩ	2.5
Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 0.74 Conductor section Max 10 10 Flexible w/o lug conductor section min mm² 1 max min mm² 1 1 Flexible c/w lug conductor section min mm² 1	Power dissipation per	pole (average value)			
min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1 Max number of wires simultaneously connectable Nr. 2 0.74 Max number of wires simultaneously connectable Nr. 2 0 Conductor section max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6			Ith	W	2.6
max Nm 1.8 min lbin 1.1 max lbin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 10 Max number of wires simultaneously connectable Nr. 2 2 Conductor section max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 1	Tightening torque for	terminals			
min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Max 10 Flexible w/o lug conductor section max 10 Flexible c/w lug conductor section min mm² 1 max mm² 6 1					
max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1 min Ibin 0.8 max 10 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1					
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Flexible w/o lug conductor section max 10 Flexible w/o lug conductor section min mm² Flexible c/w lug conductor section min mm²					
min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 6 Flexible c/w lug conductor section Flexible c/w lug conductor section 10	Tightoping torque for		max	niai	1.5
max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 Max min mm² 1 Flexible c/w lug conductor section Flexible c/w lug conductor section min mm² 1	rightening torque for	conterminar	min	Nm	0.9
min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 Min mm² 6 Flexible c/w lug conductor section Flexible c/w lug conductor section					
max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil 10 Flexible w/o lug conductor section max 10 Flexible c/w lug conductor section max mm² Flexible c/w lug conductor section Flexible c/w lug conductor section mm²					
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil 10 Flexible w/o lug conductor section min mm² 10 Flexible c/w lug conductor section Flexible c/w lug conductor section 6					
Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section 6	Max number of wires	simultaneously connectable	max		
AWG/Kcmil max 10 Flexible w/o lug conductor section min mm ² 1 max mm ² 6 Flexible c/w lug conductor section					_
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section		AWG/Kcmil			
Flexible w/o lug conductor section min mm ² 1 max mm ² 6 Flexible c/w lug conductor section			max		10
min mm ² 1 max mm ² 6 Flexible c/w lug conductor section		Flexible w/o lug conductor section			
max mm ² 6 Flexible c/w lug conductor section		č	min	mm²	1
Flexible c/w lug conductor section			max		6
min mm² 1		Flexible c/w lug conductor section			
			min	mm²	1

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 110VAC 50/60HZ

BFK1810A110

		max	mm²	4
	Flexible with insulated spade lug conductor			
		min	mm²	1
		max	mm²	4
Power terminal protect	ion according to IEC/EN 60529			IP20 when
-				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	418
Conductor section			9	110
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	cteristics			-
Thermal current Ith			А	10
EC/EN 60947-5-1 des	signation			A600 - P600
Operating current AC1				
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC1	2			
		110V	А	5.7
Operating current DC1	3			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.6
		600V	А	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	400000
Safety related data				
Performance level B10	Dd according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				110
Rated AC voltage at 50	J/6UHZ		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	00
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			

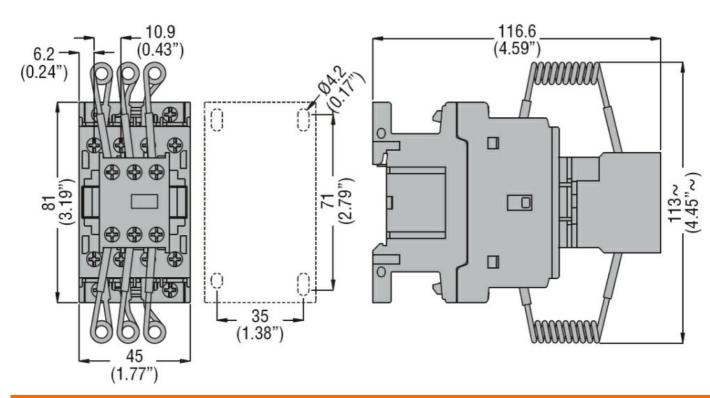


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 110VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	unitien at 00%0	IIIdX	/005	55
AC average coil cons	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	noiding	V/ (0.0
	or our iz con powered at our iz	in much	1/4	75
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			,	
Average time for Us c	control			
Average lime for US C				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	1 5	min	ms	10
		max	ms	20
	Closing NC	Пах	mo	20
	Closing NC			
		min	ms	14
		max	ms	28
UL technical data				
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	\ <i>\</i>	600
		AC voltage	V	
		AC current	A	10
		DC voltage	V	250
		DC current	Α	1
Contact rating of auxil	iary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
iomporatoro	Operating temperature			
	Operating temperature		• •	50
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°Ċ	80
Max altitude		max	 	3000
			111	3000
Resistance & Protect				
Pollution degree				3
Dimensions [mm (in)]				



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 110VAC 50/60HZ

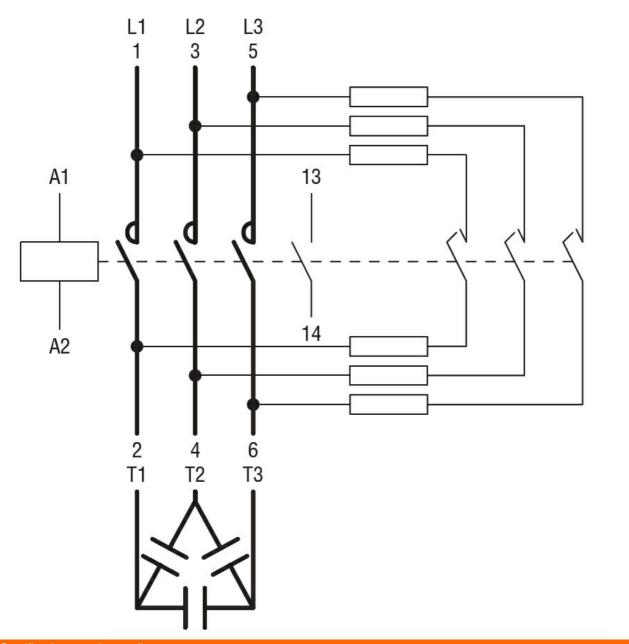


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 110VAC 50/60HZ





Certifications and compliance

(`omn	lianaa
Comp	nance
• • • • • •	

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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

BFK1810A110

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 50/60HZ



Product designation				Power contactor
Product type designat	tion			BFK18
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	and voltage Uimp		kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		А	32
Rated operational pov	wer AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	200
Protection fuse				
		gG (IEC)	Α	40
Making capacity (RMS	S value)		Α	180
Breaking capacity at v	voltage			
		440V	А	144
		500V	А	120
		690V	А	94
Resistance per pole (average value)			mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	2.6
Tightening torque for t	terminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
		max		10
	Flexible w/o lug conductor section		-	
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1

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ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 50/60HZ

BFK1810A230

Flexible with insulated spade lug conductor section min 1 Power terminal protection according to IEC/EN 60529 normal Vertical plan g 4 Operating position normal allowable ±30° 3 3 Fixing 35mm 3 10 10 10 10 Auxiliary contact characteristics max 10			···· ··· · 2	4
min mmin mmin mmin 1 max mmin mmin 1 Max mmin 1 1 Mechanical features property wired 1 Operating position normal Vertical plan allowable ±30° 35mm Fixing Screw / DIN rail 35mm Conductor section max 10 Auxiliary contact characteristics 10 10 Thermal current lth A 10 10 ECCIN 6087-6-1 designation A600 - P600 0 Operating current AC15 230 V A 3 Coperating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Operating current DC13 24V A 5.7 Operations 600V A 0.1 Operations cycles 2000000 2.3 Metchricel life cycles 2000000 2.3 Metchricel life	Elevible with insulated spade lug conductor soci	max	mm²	4
max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN raji Fixing 0 Assimution g 418 Conductor section max 10 10 Availary contact characteristics max 10 Thermal current Ith A 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current DC12 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 0 Operating current DC13 24V A 5.7 Operating current DC13	T lexible with insulated space by conductor sect		mm²	1
Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal allowable allowa				
Mechanical features property wiles Operating position normal allowable vertical plan ±30" Fixing Screw / DIN rail 35mm Weight g 418 Conductor section max 10 Auxiliary contact characteristics max 10 Thermal current th A 10 1EC/EN 60947-5-1 designation A600 - P600 Operating current DC15 230V A 400V A 1.9 500V A 1.4 Operating current DC12 110V A Operating current DC13 24V A VAWV A 2.9 60V A 600V A 1.25 125V A 110V A 5.7 48V A 2.9 60V A 2.3 10V A 1.25 125V A 1.1 2000000 Electrical life cycles 400000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000				
Operating position normal allowable Vertical plan allowable ±30° Fixing Screw / DIN rail Weight g 418 Conductor section max 10 Auxiliary contact characteristics max 10 Thermal current lth A 10 EC/EN 60947-5-1 designation A 600 - P600 Operating current AC15 230V A 400V A 1.9 500V A 1.4 Operating current DC12 110V A 0perating current DC13 24V A 24V A 5.7 Operating current DC13 24V A 220V A 1.4 Operating current DC13 24V A 24V A 5.7 Operating current DC13 24V A 220V A 0.6 600V A 1.1 220V A 0.6 600V A <				properly wired
normal allowable Vertical plan ±30" Fixing Screw / DIN rail 35mm Weight g 418 Conductor section max 10 AWG/kcmil conductor section max 10 Auxiliary contact characteristics max 10 Thermal current lth A 10 EC/EN.60947-5-1 designation A600 - P600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 9 Gold Auxiliary Advisor A 5.7 48V A 5.7 Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.6 600V A 1.1 220V A 0.6 600V A				
allowable ±30° Fixing Screw / DIN rail 35mm Weight g 418 Conductor section max 10 Auxiliary contact characteristics max 10 EC/EN 60947-5-1 designation A 10 EC/EN 60947-5-1 designation A 10 Conductor section A 10 EC/EN 60947-5-1 designation A 3 Operating current DC15 230V A 3 Quertant current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Operating current DC13 24V A 5.7 Operations 24V A 5.7 Operations 220V A 0.6 600V A 0.1 220V A 0.6 Electrical life cycles 20000000 2000000 2000000 Electrical life cycles 20000000 2000000 2000000 20000000 20000000 2000000	Operating position			
Fixing Screw / DIN rail 35mm Weight g 418 Conductor section AWG/kcmil conductor section max 10 Auxiliary contact characteristics max 10 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 3 4000V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Mechanical life cycles 2000000 Electrical life cycles 20000000 Safety related data 9 9 20000000 Mechanical load cycles				
Filting 35mm Weight g 418 Conductor section max 10 Auxiliary contact characteristics max 10 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 400V A 1.9 500V A 1.4 Operating current DC12 100V A 5.7 Operating current DC13 24V A 5.7 Operating current DC13 24V A 5.7 Operations 24V A 5.7 Operations 24V A 5.7 Operations 24V A 5.7 Operations 2000 A 1.1 220V A 0.6 Electrical life cycles 20000000 Electrical life 2000000 2000000 2000000 2000000 20000000 20000000 20000000 20000000 20000000 20000000 2000000		allowable		
Weight g 418 Conductor section AWG/kcmil conductor section max 10 Auxiliary contact characteristics max 10 Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 48V A 2.9 Operating current DC13 24V A 5.7 48V A 2.9 Operations 24V A 5.7 48V A 2.9 Mechanical life cycles 2000000 Electrical life cycles 2000000 Safety related data Performance level B10d according to EN/ISO 13489-1 Trade load cycles 2000000 2000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC od operating unax V 230 AC operating	Fixing			
Conductor section nax 10 Auxiliary contact characteristics nax 10 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 4000V A 1.4 Operating current DC12 110V A 0 110V A 5.7 Operating current DC13 24V A 5.7 Operations 220V A 0.6 600V A 1.1 220V A 0.6 600V A 0.1 220V A<	Weight		a	
max 10 Axiliary contact characteristics			3	
Auxiliary contact characteristics A 10 Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Generating current DC13 24V A 5.7 Operating current DC13 24V A 5.7 48V A 2.9 60V A 1.25 125V A 1.1 220V A 0.6 60V A 0.1 Operations 0.06 60V A 0.1 2000000 Electrical life cycles 2000000 Safety related data 2000000 Safety related data 2000000 Safety related data YES 2000000 EMC contacts according to EN/ISO 13489-1 rated load cycles 400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES YES 20000000 Mirror contats accor	AWG/kcmil conductor section			
Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 5.7 Operating current DC13 24V A 5.7 4.8V A 2.9 6.0V A 2.3 110V A 2.2 3.3 100V A 1.2 5.7 4.8V A 2.9 6.0V A 2.3 110V A 1.2 5.7 125V A 1.1 220V A 0.6 6.0V A 0.1 0.6 6.0V A 0.1 0.6 6.0V A 0.1 0.6 6.0V A 0.1 0.6 6.0V A 0.6 6.0V		max		10
IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 0 Operating current DC13 24V A 5.7 48V A 2.9 60V A 1.25 125V A 1.1 220V A 0.6 60V A 2.3 110V A 1.25 125V A 0.6 600V A 0.1 20000000 Electrical life cycles 20000000 Safety related data 20000000 20000000 20000000 20000000 Mirror contats according to EN/ISO 13489-1 rated load cycles 400000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 400000 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 400000 20000000 20000000 20000000 20000000 200000000	Auxiliary contact characteristics			
Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Operating current DC14 29 60V A 1.1 220V A 0.6 600V A 0.6 Operating life cycles 20000000 20000000 20000000 20000000 Mirror contats according to EN/ISO 13489-1 rated load			Α	
230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Operations 1.1 25 125V A 1.1 220V A 0.6 600V A 0.1 Operations cycles 20000000 20000000 20000000 Safety related data Performance level B10d according to EC/EN 609474-4-1 YES 20000000 20000000 20000000 20000000 20000000 20000000 20000000 200000000 20000000 20000000				A600 - P600
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500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations 20V A 0.6 600V A 0.1 Mechanical life cycles 20000000 Electrical life cycles 400000 Safety related data				
Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations 600V A 0.1 00000 Bechanical life cycles 2000000 2000000 Electrical life cycles 400000 0000 Safety related data 0 cycles 400000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 AC coil operating rated AC voltage at 50/60Hz V 230 230 AC operating voltage of 50/60Hz coil powered a				
110V A 5.7 Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations 600V A 0.1 0.6 600V A 0.1 Operational life cycles 20000000 Electrical life cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mated AC voltage at 50/60Hz V 230 AC AC coll operating of 50/60Hz coil powered at 50Hz min %US 80	Operating ourrant DC12	500V	A	1.4
Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations 600V A 0.1 600V A 0.1 Mechanical life cycles 20000000 20000000 20000000 20000000 Safety related data 0 0 100V A 0.1 Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 AC coll operating wes AC 200 AC AC coll operating of 50/60Hz coil powered at 50Hz V 230 AC AC operating voltage of	Operating current DC12	110\/	٨	57
24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations cycles 2000000 Bechanical life cycles 2000000 Electrical life cycles 400000 Safety related data rated load cycles 400000 Safety related data vectors 20000000 20000000 Mirror contats according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes X 230 AC coil operating rated AC voltage at 50/60Hz V 230 AC coil operating of 50/60Hz V 230 AC operating voltage min %US 80 max %US	Operating current DC13	TIOV	A	5.7
48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 2000000 Solution of the second sec	Operating current DO13	24\/	Δ	57
60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 2000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mechanical load cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 AC coil operating of 50/60Hz coil powered at 50Hz yes 30 Ac coil operating voltage min %US <td< td=""><td></td><td></td><td></td><td></td></td<>				
110V A 1.25 125V A 1.1 220V A 0.6 600V A 0.1 Operations Mechanical life cycles 20000000 Electrical life cycles 20000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mc conpartibility yes AC coll operating YetS AC coll operating Rated AC voltage at 50/60Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %US 80 min< %US				
220V A 0.6 600V A 0.1 Operations		110V	А	
600V A 0.1 Operations		125V	А	1.1
Operations Mechanical life cycles 2000000 Electrical life cycles 40000 Safety related data rated load cycles 400000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Marco compatibility yes AC coil operating yes AC coil operating V 230 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 4rop-out min %Us 55 of 50/60Hz coil powered at 60Hz max %Us 55 55		220V	А	0.6
Mechanical life cycles 2000000 Electrical life cycles 40000 Safety related data rated load cycles 400000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 rated load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES 20000000 Mirror contats according to IEC/EN 609474-4-1 yes X AC coil operating yes YES AC coil operating yes X AC ool operating yes X AC operating voltage of 50/60Hz coil powered at 50Hz V 230 Mirop-out min %Us 80 max %Us 110 X drop-out min %Us 20 max %Us 55 55		600V	А	0.1
Electrical life cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 mechanical load cycles 400000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz of 50/60Hz coil powered at 50Hz pick-up min %US 80 max %US 110 drop-out min %US 20 max %US 55 of 50/60Hz coil powered at 60Hz				
Safety related data rated load cycles 400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coil operating yes Rated AC voltage at 50/60Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 min %Us 110 10 drop-out min %Us 55 of 50/60Hz coil powered at 60Hz min %Us 55 55 55				
Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coil operating V 230 AC coil operating V 230 AC operating voltage of 50/60Hz coil powered at 50Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz V 110 drop-out min %Us 80 min %Us 20 20 drop-out min %Us 55 of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz V 20			cycles	400000
rated load cycles 400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz X Y 230 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				
mechanical loadcycles2000000Mirror contats according to IEC/EN 609474-4-1YESEMC compatibilityyesAC coil operatingyesAC coil operatingVRated AC voltage at 50/60HzVAC operating voltagevof 50/60Hz coil powered at 50Hzpick-upminmin%Us80max%Us110drop-outminmin%Us55of 50/60Hz coil powered at 60Hz	Penormance level B100 according to EIV/ISO 13489-1	rated load	oveloc	400000
Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 230 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			•	
EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out min %Us 80 max %Us 110 min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz	Mirror contats according to IEC/EN 609474-4-1	meenamouriouu	0y0l00	
AC coil operating Rated AC voltage at 50/60Hz 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				
Rated AC voltage at 50/60Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up v 80 min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz v				<i>,</i>
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min %Us 80</u> max %Us 110 <u>min %Us 20</u> max %Us 55 of 50/60Hz coil powered at 60Hz			V	230
pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz				
min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz				
max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz	pick-up			
drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz		min		
min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz		max	%Us	110
max %Us 55 of 50/60Hz coil powered at 60Hz	drop-out		0/17	
of 50/60Hz coil powered at 60Hz				
		max	%US	00
	of 50/60Hz coll powered at 60Hz pick-up			

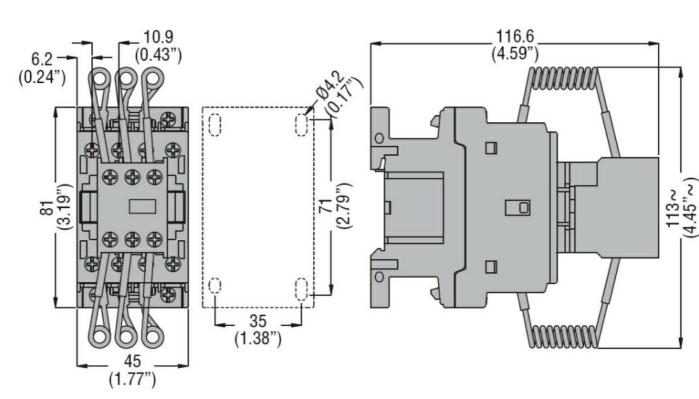


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	unitient at 00%0	IIIdX	/005	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz		.,.	0.0
	of our iz con powered at our iz	in ruch	١/٨	75
		in-rush	VA	
		holding	VA	9
Dissipation at holding	-		W	2.5
Max cycles frequency	у <u> </u>			
Mechanical operation	I		cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
	Closing NO			•
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
	g	min	ms	14
		max	ms	28
UL technical data		Παλ	1113	20
General USE	-			
	Contactor			
		AC current	А	32
	Auxiliary contacts			
	-	AC voltage	V	600
		AC current	Â	10
		DC voltage	V	250
		DC voltage DC current		1
Contact actions of a	llen i conto do concertir e to LU	Do current	A	
<u> </u>	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°Č	70
	Storage temperature	max	-	-
	otorage temperature		°C	60
		min		-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions [mm (in)]				



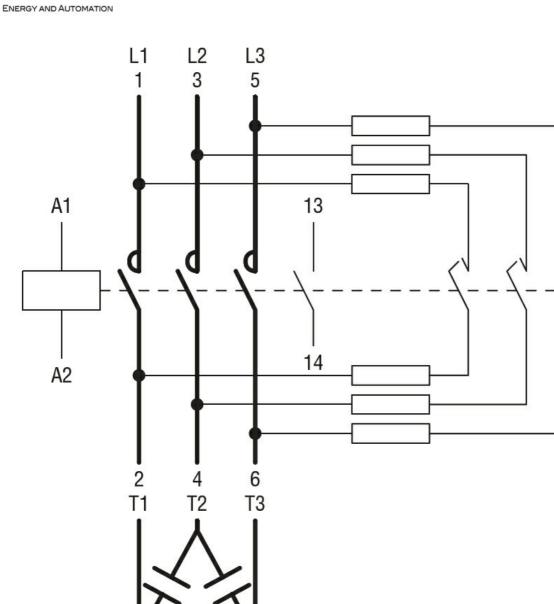
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 50/60HZ



Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 50/60HZ



Certifications and compliance

Comp	liance
Comp	nanoc

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		
	000	
	cULus	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

BFK1810A230

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 400VAC 50/60HZ



Product designation				Power contactor
Product type designat	ion			BFK18
Contact characteristic				DIRIO
Number of poles	5		Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
			ĸv	0
Operational frequency				05
		min	Hz	25
<u></u>		max	Hz	400
	air thermal current Ith		А	32
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	200
Protection fuse				
		gG (IEC)	Α	40
Making capacity (RMS	s value)		Α	180
Breaking capacity at v	oltage			
		440V	А	144
		500V	А	120
		690V	А	94
Resistance per pole (average value)			mΩ	2.5
Power dissipation per	-			-
		lth	W	2.6
Tightening torque for t	erminals			2.0
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for a	coil terminal	ΠΙαλ		1.5
rightening torque for t		min	Nimo	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1

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



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 400VAC 50/60HZ

		max	mm²	4
	Flexible with insulated spade lug conductor sect			
		min	mm²	1
		max	mm²	4
-	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rai
Fixing				35mm
Weight			g	428
Conductor section			3	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	-			A600 - P600
Operating current AC1	5			
		230V	А	3
		400V	Α	1.9
	-	500V	A	1.4
Operating current DC1	12			
	<u> </u>	110V	Α	5.7
Operating current DC1	13	<u> </u>		
		24V	A	5.7
		48V 60V	A	2.9 2.3
		60 V 110V	A A	2.3 1.25
		125V	A	1.25
		220V	A	0.6
		600V	A	0.1
Operations		0001	7.	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	400000
Safety related data			,	
Performance level B1	0d according to EN/ISO 13489-1			
	-	rated load	cycles	400000
		mechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	400
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	max	/005	55
	pick-up			
	μισκ-αμ			

BFK1810A400

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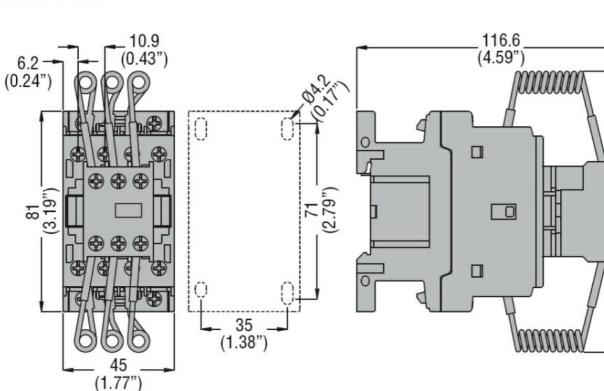
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 400VAC 50/60HZ

$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $					
drop-out min %Us S5 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz					
$\begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$			max	%Us	110
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding VA 75 of 50/60Hz coil powered at 60Hz in-rush VA 70 in-rush VA 75 of 50/60Hz coil powered at 60Hz in-rush VA 70 in-rush VA 75 holding VA 9 of 60Hz coil powered at 60Hz in-rush VA 75 in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 3600 0 Operating times cycles/h 3600 0 0 Average time for Us control in AC min ms 8 0 Closing NO min ms 14 max ms 20 Closing NC min ms 14 max 32 0 General USE Contactor A 32 20 0 0 0 0 0 0 </td <td></td> <td>drop-out</td> <td></td> <td></td> <td></td>		drop-out			
AC average coll consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding s20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 10 max ms 24 Opening NO min ms 11 max ms 28 UL technical data General USE Contactor Ac current A 32 Auxiliary contacts Contactor Ac voltage V 600 Ac current A 10 DC voltage V 250 DC ourrent A 10 Contactor Ac voltage V 600 Ac current A 10 DC voltage V 250 DC ourrent C 70 Storage temperature min *C -50 max *C 70 Max altitude max ms 3000 Reastance & Protection Pellution degree 3					
of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 $ 1000000000000000000000000000000000000$			max	%Us	55
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$	AC average coil cons	•			
Including VA 9 of 50/60Hz coil powered at 60Hz in-rush holding VA 70 holding of 60Hz coil powered at 60Hz in-rush holding VA 75 holding Dissipation at holding s20°C 50Hz w 2.5 Max cycles frequency v 2.5 Average time for Us control in AC c/closing NO min ms 8 Opening NO min ms 24 0 0 Closing NO min ms 10		of 50/60Hz coil powered at 50Hz			
of 50/60Hz coil powered at 60Hz in-rush VA 70 holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding \$20°C 50Hz W 2.5 Max cycles frequency W 2.5 Mechanical operation cycles/h 3600 Operating times					
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$			holding	VA	9
holding VA 6.5 of 60Hz coil powered at 60Hz in-rush holding VA 75 blesipation at holding \$20°C 50Hz W 2.5 Max cycles trequency v 2.5 Mechanical operation cycles/h 3600 Operating times		of 50/60Hz coil powered at 60Hz			
or 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times colspan="2">Notes and the cycles in t					
in-rush holding VA VA 75 VA Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency W 2.5 Max cycles frequency W 3600 Operating times Average time for Us control in AC State State Closing NO min ms 8 Opening NO min ms 10 max ms 24 0 Opening NO min ms 10 Max average time for Us control min ms 24 Opening NO min ms 10 Max ms 20 10 Closing NC min ms 14 max ms 28 10 UL technical data General USE KC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 10			holding	VA	6.5
holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Second		of 60Hz coil powered at 60Hz			
Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC min ms 14 max ms 28 UL technical data General USE Contactor Auxiliary contacts Contactor Auxiliary contacts AC voltage V 6600 AC current A 32 AC voltage V 250 DC current A 10 DC voltage V 250 DC current A 10 DC voltage V 250 DC current A 10 Contactor Auxiliary contacts according to UL Ambient conditions Temperature Operating temperature Max atitude Max atitude Max atitude Max atitude Max atitude Max atitude Max atitude Max atitude Max atitude Pollution degree 3					
Max cycles frequency cycles/h 3600 Operating times Average time for Us control in AC min ms 8 Closing NO min ms 24 Opening NO min ms 10 max ms 20 max ms 24 Opening NO min ms 10 max ms 20 UL technical data Closing NC max ms 28 14 max ms 28 UL technical data Contactor AC current A 32 32 Auxiliary contacts AC outrage V 600 600 AC current A 32 Contact rating of auxiliary contacts according to UL AC voltage V 250 DC current A 1 Ambient conditions Temperature max *C -50 -60 Max altitude C -50 max *C 60 -60 Max altitude max *C -60 -60 -60 -60 -60 -60 -60 -6			holding		
Mechanical operation cycles/h 3600 Operating times				W	2.5
Operating times Average time for Us control in AC Closing NO min max ms 8 Opening NO min max ms 10 Opening NO min max ms 10 Closing NC min max ms 10 UL technical data min max ms 14 General USE Contactor AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 1 A600 - P600 Ambient conditions max "C -50 -50 Temperature min "C -50 -50 Storage temperature min "C -50 -50 Max attitude max "C -60 -60 Max attitude m 3000 -70 -70					
Average time for Us control in AC Closing NO min ms 8 Max ms 24 0 min ms 24 Opening NO min ms 10 max ms 20 Closing NC min ms 10 max ms 20 UL technical data min ms 14 max ms 28 UL technical data max ms 22 28 28 28 UL technical data max ms 22 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20				cycles/h	3600
in AC Closing NO min ms 8 A24 Opening NO min ms 10 max ms 20 Closing NC Min ms 14 max ms 28 UL technical data Closing NC Min ms 14 max ms 28 UL technical data Contactor Contactor AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC voltage V					
Closing NO min ms 8 Opening NO min ms 8 Min ms 10 max ms 20 Closing NC min ms 14 max ms 28 14 UL technical data max ms 28 General USE Contactor max ms 23 Auxiliary contacts AC current A 32 Auxiliary contacts AC current A 10 DC voltage V 600 250 DC current A 1 10 DC voltage V 250 26 DC current A 1 1 Contact rating of auxiliary contacts according to UL Accurrent A 1 Ambient conditions min *C -50 -50 Temperature min *C -50 -50 -50 Max altitude min *C -50 <td>Average time for Us of</td> <td></td> <td></td> <td></td> <td></td>	Average time for Us of				
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $		in AC			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Closing NO			
Opening NO min ms 10 max ms 20 Closing NC min ms 14 max ms 28 UL technical data ms 14 General USE ms 20 Contactor AC current A 32 Auxiliary contacts AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions max °C 50 max Temperature min °C -50 max °C 70 Storage temperature min °C -50 max °C 80 Max altitude max °C 800 max °C 80 Max altitude max °C 80 3			min	ms	8
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $			max	ms	24
max ms 20 min ms 14 max ms 28 UL technical data 8 28 General USE 1 1 Contactor AC current A 32 Auxiliary contacts AC voltage V 600 Accurrent A 10 10 DC voltage V 250 10 DC voltage V 250 10 DC current A 1 1 Contact rating of auxiliary contacts according to UL AC voltage V 250 DC current A 1 1 Contact rating of auxiliary contacts according to UL AC voltage V 250 Ambient conditions X 1 X 1 Temperature Min C -50 -50 Max altitude min °C -50 -70 Storage temperature min °C 80 -80		Opening NO			
Closing NC min ms 14 max ms 28 UL technical data			min	ms	10
$\begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$			max	ms	20
$\begin{array}{c c c c c } & max & ms & 28 \\ \hline \begin{tabular}{ c c } \hline & & & & & & & & & & & & & & & & & & $		Closing NC			
UL technical data General USE Contactor AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL Ambient conditions A600 - P600 Temperature Operating temperature min Operating temperature min Storage temperature min °C Max altitude m 3000 Resistance & Protection			min	ms	
General USE Contactor AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL A According to UL A600 - P600 Ambient conditions Temperature Min °C -50 min °C -50 Max °C 70 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection Pollution degree 3			max	ms	28
Contactor AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC outrent A 1 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions X 4600 - P600 Temperature V 4600 - P600 Operating temperature X 4600 - P600 Max altitude N 70 Storage temperature Min °C -50 Max altitude min °C 80 Max altitude m 3 3					
AC currentA32Auxiliary contactsAC voltageV600AC currentA10DC voltageV250DC currentA1Contact rating of auxiliary contacts according to ULA600 - P600Ambient conditionsTemperaturemin °C-50Max °C70Storage temperaturemin °C-60min °C80Max altitudem3000Resistance & ProtectionPollution degree3	General USE				
Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions A600 - P600 Temperature Operating temperature Operating temperature min °C -50 Max altitude min °C 600 Max altitude m 3000 Resistance & Protection 3 3		Contactor			
AC voltage AC current DC voltage DC voltage DC voltage DC voltage V600 400 250 250 AContact rating of auxiliary contacts according to ULA1Contact rating of auxiliary contacts according to ULA600 - P600Ambient conditionsA600 - P600Temperaturemin °COperating temperaturemin max °CStorage temperaturemin max °CMax altitudemMax altitudemPollution degree3			AC current	А	32
AC current A 10 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Operating temperature min °C -50 Max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3		Auxiliary contacts			
DC voltage DC currentV250 AContact rating of auxiliary contacts according to ULA600 - P600Ambient conditions-Temperature-Operating temperature-min°C			-		
DC current A 1 Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions - Temperature - Operating temperature - min °C -50 max °C 70 Storage temperature - - Max altitude m 3000 Resistance & Protection - - Pollution degree - 3					
Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Temperature 0perating temperature Min °C -50 max °C 70 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection 3			-		250
Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3			DC current	А	
Temperature Min °C -50 min °C 70 Storage temperature min °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3		liary contacts according to UL			A600 - P600
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3					
min max°C °C-50 70Storage temperaturemin max°C-60 80Max altitudem3000Resistance & Protection3	Temperature				
max°C70Storage temperaturemin°C-60max°C80Max altitudem3000Resistance & Protection3		Operating temperature			
Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3			min		
min max°C °C-60 80Max altitudem3000Resistance & ProtectionPollution degree3			max	°C	70
min max°C °C-60 80Max altitudem3000Resistance & ProtectionPollution degree3		Storage temperature			
Max altitudem3000Resistance & Protection3			min		-60
Resistance & Protection Pollution degree 3			max	°C	80
Pollution degree 3				m	3000
	Resistance & Protect	ion			
					3

113~ (4.45"~)



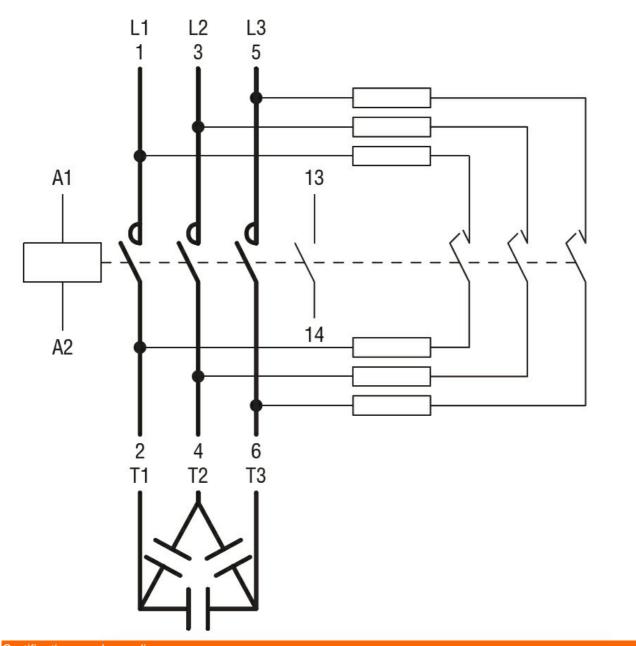
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 400VAC 50/60HZ



Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 400VAC 50/60HZ



Certifications and compliance

Compl	liance
Comp	lance

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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

BFK1810A400

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 60HZ



Product type designation BFK18 Contact characteristics	Product designation				Power contactor
Number of poles Nr. 3 Rated insulation voltage UI IEC/EN V 690 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional free air thermal current lth A 32 Rated inputsion power AC-6b (T≤40°C) 230V kvar 9 400V kvar 17 6900 kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse GG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 Soov A 140 500V A 144 Soov A 144 500V A 144 Soov A 144 500V A 144 Soov A 144 500V A 144 Soov A 120 690V Ker E Power dissipation per pole (average value)	Product type designa	tion			BFK18
Rated insulation voltage UI IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 IEC Conventional frequency max Hz 400 IEC conventional frequency A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 440480V kvar 17 690V kvar 17 690V kvar 17 690V kvar 20 Protection fuse gG (IEC) A 40 A A 200 Protection fuse gG (IEC) A 40 A B B Breaking capacity (RMS value) A 180 B	Contact characteristic	S S			
Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 9 400 400 kvar 15 440 400 kvar 15 440 .480V kvar 15 440 400 400 kvar 15 90V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 142 500V A 140 500V A 140 500V A 140 500V A 94 Resistance per pole (average value) mmQ 2.5 Power dissipation per pole (average value) mmX Nm 1.5 mmx Nm 1.5 mmx <td< td=""><td>Number of poles</td><td></td><td></td><td>Nr.</td><td>3</td></td<>	Number of poles			Nr.	3
Operational frequency min Hz 25 max Hz 400 1EC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440480V kvar 15 440480V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 144 500V A 142 690V A 94 94 2.5 Power dissipation per pole (average value) mm Nm 1.5 max Nm 1.8 min 110 1.1 max Nm 1.8 min 110 1.5 Tightening torque for coil terminal min Nm 1.8 max Nm 1.6 0.74 2 Conductor section Nr 2 Conduc	Rated insulation volta	ge Ui IEC/EN		V	690
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withsta	and voltage Uimp		kV	6
$\begin{array}{c c c c c c } \hline max & Hz & 400 \\ \hline IEC Conventional free air thermal current lth & A & 32 \\ \hline Rated operational power AC-6b (TS40°C) & 230V & kvar & 9 \\ 400V & kvar & 15 \\ 440480V & kvar & 15 \\ 440480V & kvar & 20 \\ \hline & 440480V & kvar & 20 \\ \hline & 690V & A & 40 \\ \hline & Making capacity (RMS value) & A & 180 \\ \hline & Breaking capacity at voltage & 440V & A & 144 \\ 500V & A & 142 \\ 500V & A & 120 \\ \hline & 690V & A & 94 \\ \hline & \\ $	Operational frequency	у			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			min	Hz	25
Rated operational power AC-6b (T≤40°C) 230V kvar 9 440U. kvar 15 440U. kvar 15 440U. kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 140 Breaking capacity (RMS value) A 144 Breaking capacity (RMS value) M 140 Resistance per pole (average value) m0 2.5 Power dissipation per pole (average value) min Nm <			max	Hz	400
$\begin{array}{c cccccc} & & & & & & & & & & & & & & & & $	IEC Conventional free	e air thermal current Ith		А	32
$\begin{array}{c cccccc} & 400V & kvar & 15 \\ 440480V & kvar & 17 \\ 690V & kvar & 20 \\ \hline \\ $	Rated operational por	wer AC-6b (T≤40°C)			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			230V	kvar	9
690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.5 max Nm 1.8 min torin Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 max Ibin 0.1 1.5 max Nm 1.8 max Ibin 0.8 max Nm 1.8 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 10 <t< td=""><td></td><td></td><td>400V</td><td>kvar</td><td>15</td></t<>			400V	kvar	15
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			440480V	kvar	17
Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mín Nm 1.5 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 0.8 max 10 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mmx 10 max 6			690V	kvar	20
gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.8 min 1.0 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section 10 Flexible w/o lug conductor section	Short-time allowable	current for 10s (IEC/EN60947-1)		А	200
Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mÍn Nm 1.5 Tightening torque for terminals mín Nm 1.5 Tightening torque for coil terminal mín Nm 1.5 Tightening torque for coil terminal mín Nm 0.8 max Nm 1.5 1.1 max Nm 1.5 1.5 Tightening torque for coil terminal mín Nm 0.8 max Nm 1.5 1.5 Tightening torque for coil terminal mín Nm 0.8 max Nm 1.5 1.5 Tightening torque for coil terminal mín 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section mín mm²	Protection fuse				
Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 min Nm 1.5 max Nm 1.8 min Ibin 1.1 max 1bin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Texible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 max 10			gG (IEC)	А	40
440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Ibin 0.8 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6	Making capacity (RMS	S value)		А	180
500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 Max number of wires simultaneously connectable Nr. 2 Conductor section MWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1	Breaking capacity at v	voltage			
$\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $			440V	А	144
Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 min lbin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 1			500V	А	120
Power dissipation per pole (average value) Tightening torque for terminals min Nm 1.5 max Nm 1.8 min lbin 1.1 max lbin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min lbin 0.8 max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Conductor section AWG/Kcmil Flexible w/o lug conductor section min mm ² 1 max mm ² 6			690V	А	94
Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section MWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 6 Flexible c/w lug conductor section min mm² 1	Resistance per pole (average value)		mΩ	2.5
Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max min mm² 1 1 Flexible c/w lug conductor section min mm² 6	Power dissipation per	pole (average value)			
$\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $			Ith	W	2.6
$\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $	Tightening torque for	terminals			
min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.8 max Ibin 0.8 max Ibin 0.8 Max number of wires simultaneously connectable Nr. 2 0 Conductor section Nr. 2 0 AWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 1 Flexible c/w lug conductor section min mm² 1			min	Nm	1.5
max lbin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mm² Flexible c/w lug conductor section min mm² Flexible c/w lug conductor section min mm²			max	Nm	1.8
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 max 10 Flexible w/o lug conductor section min mm² 1 min <mm²< td=""> 1 Flexible c/w lug conductor section</mm²<>			min	lbin	1.1
min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 min mm² 1 6 1 Flexible c/w lug conductor section Flexible c/w lug conductor section 10 1			max	lbin	1.5
max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² Imax mm² 1 Flexible c/w lug conductor section min mm² Flexible c/w lug conductor section Flexible c/w lug conductor section 10	Tightening torque for	coil terminal			
max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² flexible w/o lug conductor section Flexible c/w lug conductor section min			min	Nm	0.8
max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Imax 10 Flexible w/o lug conductor section min mm² 1 Max Mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section Imax Imax					1
max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Imax 10 Flexible w/o lug conductor section min mm² 1 Max Mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section Imax Imax			min		0.8
Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section					
Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section	Max number of wires	simultaneously connectable		Nr.	2
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section Flexible c/w lug conductor section mm² 6					
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section Flexible c/w lug conductor section mm² 6		AWG/Kcmil			
Flexible w/o lug conductor section min mm ² 1 max mm ² 6 Flexible c/w lug conductor section			max		10
min mm ² 1 max mm ² 6 Flexible c/w lug conductor section		Flexible w/o lug conductor section			
max mm ² 6 Flexible c/w lug conductor section			min	mm²	1
Flexible c/w lug conductor section					
•		Flexible c/w lug conductor section			-
			min	mm²	1

BFK1810A02460 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



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 60HZ

		max	mm²	4
F	lexible with insulated spade lug conductor s		2	
		min	mm²	1
		max	mm²	4 IP20 when
· .	according to IEC/EN 60529			properly wired
Mechanical features				
Operating position) (anti-anti-anti-anti-
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rai
Fixing				35mm
Weight			g	460
Conductor section				
A	WG/kcmil conductor section			
		max		10
Auxiliary contact characte	ristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 design	nation			A600 - P600
Operating current AC15		0001		0
		230V	A	3
		400V 500V	A	1.9 1.4
Operating current DC12		500 v	A	1.4
		110V	А	5.7
Operating current DC13		1100		0.7
oporating ourion Do to		24V	А	5.7
		48V	A	2.9
		60V	А	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.6
		600V	А	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	400000
Safety related data				
Performance level B100 a	according to EN/ISO 13489-1	rated load	ovoloo	400000
		mechanical load	cycles cycles	400000 20000000
Mirror contats according t	n IFC/FN 609474-4-1		0,0163	YES
EMC compatibility				yes
AC coil operating				,
Rated AC voltage at 60Hz	2		V	24
AC operating voltage				
	f 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		_	
		min	%Us	20
		max	%Us	55

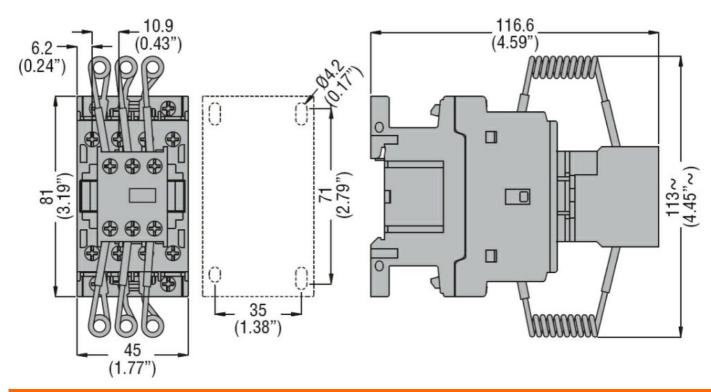
ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
	•		in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
			DC current	А	1
	ary contacts according to	o UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	on la				
Pollution degree					3
Dimensions [mm (in)]					



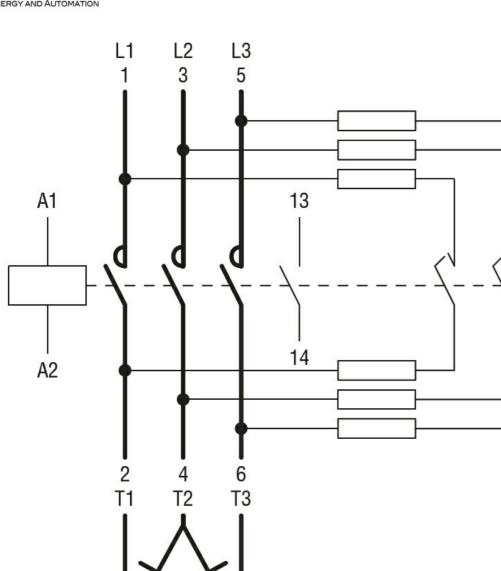
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 60HZ



Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 24VAC 60HZ



Certifications and compliance

Comp	liance
Comp	nanoo

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		
	000	
	cULus	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 60HZ



Product type designation BFK18 Contact characteristics	Product designation				Power contactor
Number of poles Nr. 3 Rated insulation voltage UI IEC/EN V 690 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional free air thermal current lth A 32 Rated inputsion power AC-6b (T≤40°C) 230V kvar 9 400V kvar 17 6900 kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse GG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 Soov A 140 500V A 144 Soov A 144 500V A 144 Soov A 144 500V A 144 Soov A 144 500V A 144 Soov A 120 690V Ker E Power dissipation per pole (average value)	Product type designa	tion			BFK18
Rated insulation voltage UI IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 IEC Conventional frequency max Hz 400 IEC conventional frequency A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 440480V kvar 17 690V kvar 17 690V kvar 17 690V kvar 20 Protection fuse gG (IEC) A 40 A A 200 Protection fuse gG (IEC) A 40 A B B Breaking capacity (RMS value) A 180 B	Contact characteristic	S S			
Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 9 400 400 kvar 15 440 400 kvar 15 440 .480V kvar 15 440 400 400 kvar 15 90V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse 9G (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 142 500V A 140 500V A 140 500V A 140 500V A 94 Resistance per pole (average value) mmQ 2.5 Power dissipation per pole (average value) mmX Nm 1.5 mmx Nm 1.5 mmx <td< td=""><td>Number of poles</td><td></td><td></td><td>Nr.</td><td>3</td></td<>	Number of poles			Nr.	3
Operational frequency min Hz 25 max Hz 400 1EC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440480V kvar 15 440480V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage A 180 Breaking capacity at voltage 440V A 144 500V A 142 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Nm 1.8 max Nm 1.8 Tightening torque for coil terminal min <td>Rated insulation volta</td> <td>ge Ui IEC/EN</td> <td></td> <td>V</td> <td>690</td>	Rated insulation volta	ge Ui IEC/EN		V	690
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withsta	and voltage Uimp		kV	6
$\begin{array}{c c c c c c } \hline max & Hz & 400 \\ \hline IEC Conventional free air thermal current lth & A & 32 \\ \hline Rated operational power AC-6b (TS40°C) & 230V & kvar & 9 \\ 400V & kvar & 15 \\ 440480V & kvar & 15 \\ 440480V & kvar & 20 \\ \hline & 440480V & kvar & 20 \\ \hline & 690V & A & 40 \\ \hline & Making capacity (RMS value) & A & 180 \\ \hline & Breaking capacity at voltage & 440V & A & 144 \\ 500V & A & 142 \\ \hline & 690V & A & 120 \\ \hline & 690V & A & 120 \\ \hline & 690V & A & 94 \\ \hline & \\$	Operational frequency	у			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			min	Hz	25
Rated operational power AC-6b (T≤40°C) 230V kvar 9 440U. kvar 15 440U. kvar 15 440U. kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 140 Breaking capacity (RMS value) A 144 Breaking capacity (RMS value) M 140 Resistance per pole (average value) m0 2.5 Power dissipation per pole (average value) min Nm <			max	Hz	400
$\begin{array}{c cccccc} & & & & & & & & & & & & & & & & $	IEC Conventional free	e air thermal current Ith		А	32
$\begin{array}{c cccccc} & 400V & kvar & 15 \\ 440480V & kvar & 17 \\ 690V & kvar & 20 \\ \hline \\ $	Rated operational por	wer AC-6b (T≤40°C)			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			230V	kvar	9
690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.5 max Nm 1.8 min torin Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 max Ibin 0.1 1.5 max Nm 1.8 max Ibin 0.8 max Nm 1.8 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 10 <t< td=""><td></td><td></td><td>400V</td><td>kvar</td><td>15</td></t<>			400V	kvar	15
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			440480V	kvar	17
Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mín Nm 1.5 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 0.8 max 10 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mmx 10 max 6			690V	kvar	20
gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.8 min 1.0 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section 10 Flexible w/o lug conductor section	Short-time allowable	current for 10s (IEC/EN60947-1)		А	200
Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mÍn Nm 1.5 Tightening torque for terminals mín Nm 1.5 Tightening torque for coil terminal mín Nm 1.5 Tightening torque for coil terminal mín Nm 0.8 max Nm 1.5 1.1 max Nm 1.5 1.5 Tightening torque for coil terminal mín Nm 0.8 max Nm 1.5 1.5 Tightening torque for coil terminal mín Nm 0.8 max Nm 1.5 1.5 Tightening torque for coil terminal mín 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section mín mm²	Protection fuse				
Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 min Nm 1.5 max Nm 1.8 min Ibin 1.1 max 1bin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Texible w/o lug conductor section min mm max 10 Flexible c/w lug conductor section min mm max 10 max 10			gG (IEC)	А	40
440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Ibin 0.8 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6	Making capacity (RMS	S value)		А	180
500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 Max number of wires simultaneously connectable Nr. 2 Conductor section MWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1	Breaking capacity at v	voltage			
$\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $			440V	А	144
Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 min lbin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 1			500V	А	120
Power dissipation per pole (average value) Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Max number of wires simultaneously connectable Nr. 2 Conductor section 10 Flexible w/o lug conductor section min mm mm² 1 Flexible c/w lug conductor section min mm² 1			690V	А	94
Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section MWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 6 Flexible c/w lug conductor section min mm² 1	Resistance per pole (average value)		mΩ	2.5
Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 min Ibin 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max min mm² 1 1 Flexible c/w lug conductor section min mm² 6	Power dissipation per	pole (average value)			
$\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $			Ith	W	2.6
$\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $	Tightening torque for	terminals			
min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.8 max Ibin 0.8 max Ibin 0.8 Max number of wires simultaneously connectable Nr. 2 0 Conductor section Nr. 2 0 AWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 1 Flexible c/w lug conductor section min mm² 1			min	Nm	1.5
max lbin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mm² Flexible c/w lug conductor section min mm² Flexible c/w lug conductor section min mm²			max	Nm	1.8
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² Flexible c/w lug conductor section flexible c/w lug conductor section			min	lbin	1.1
min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 min mm² 1 1 Flexible c/w lug conductor section min mm² 6			max	lbin	1.5
max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² Imax mm² 1 Flexible c/w lug conductor section min mm² Flexible c/w lug conductor section Flexible c/w lug conductor section 10	Tightening torque for	coil terminal			
max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² flexible w/o lug conductor section Flexible c/w lug conductor section min			min	Nm	0.8
max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Imax 10 Flexible w/o lug conductor section min mm² 1 Max Mm² 6 Flexible c/w lug conductor section					1
max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Imax 10 Flexible w/o lug conductor section min mm² 1 Max Mm² 6 Flexible c/w lug conductor section			min		0.8
Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section					
Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section	Max number of wires	simultaneously connectable		Nr.	2
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section Flexible c/w lug conductor section mm² 6					
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section Flexible c/w lug conductor section mm² 6		AWG/Kcmil			
Flexible w/o lug conductor section min mm ² 1 max mm ² 6 Flexible c/w lug conductor section			max		10
min mm ² 1 max mm ² 6 Flexible c/w lug conductor section		Flexible w/o lug conductor section			
max mm ² 6 Flexible c/w lug conductor section			min	mm²	1
Flexible c/w lug conductor section					
•		Flexible c/w lug conductor section			-
			min	mm²	1

BFK1810A04860 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



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 60HZ

	max	mm²	4
Flexible with insulated spade	0	2	
	min	mm² mm²	1
	max	11111-	4 IP20 when
Power terminal protection according to IEC/EN 6052	9		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	460
Conductor section			
AWG/kcmil conductor sectio	n		
	max		10
Auxiliary contact characteristics			10
Thermal current Ith		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	230V	۸	3
	230V 400V	A A	3 1.9
	400V 500V	A	1.4
Operating current DC12	5007	~	1.4
Operating current DO12	110V	А	5.7
Operating current DC13		7	0.1
	24V	А	5.7
	48V	A	2.9
	60V	A	2.3
	110V	А	1.25
	125V	А	1.1
	220V	А	0.6
	600V	А	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489			400000
	rated load	cycles	400000
	mechanical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility AC coil operating			yes
Rated AC voltage at 60Hz		V	48
AC operating voltage		v	-10
of 60Hz coil powered at 60H	7		
pick			
plox	min	%Us	80
	max	%Us	110
drop	-out		-
		0/11-	20
	min	%Us	20

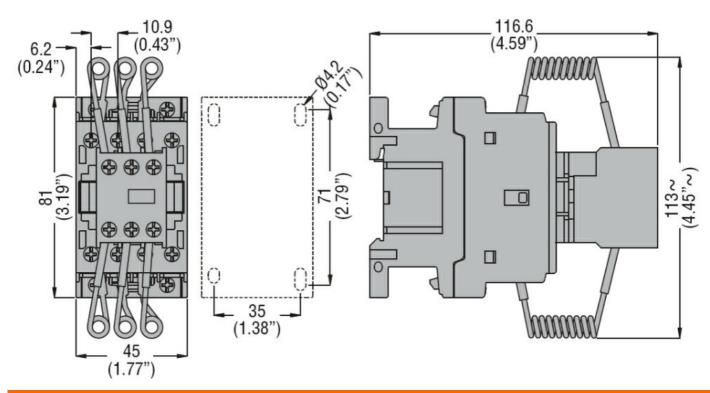
ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
	1		in-rush	VA	75
			holding	VA	9
Dissipation at holding :	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		-	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
<u></u>			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	А	10
			DC voltage	V	250
			DC current	Α	1
_	ary contacts according to	o UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature	;			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions [mm (in)]					



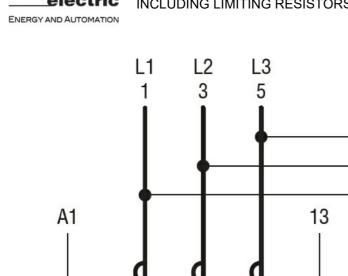
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 60HZ

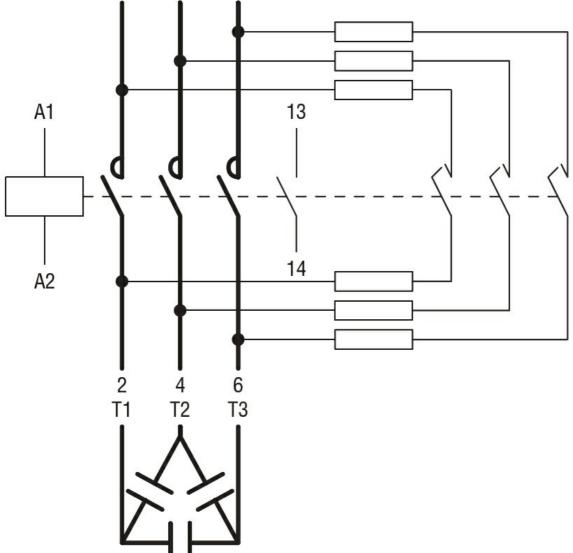


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 48VAC 60HZ





Certifications and compliance

Comp	liance
Comp	nanoc

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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 120VAC 60HZ



Product designation				Power contactor
Product type designat	ion			BFK18
Contact characteristic				
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		А	32
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
	current for 10s (IEC/EN60947-1)		Α	200
Protection fuse				
		gG (IEC)	Α	40
Making capacity (RMS	•		Α	180
Breaking capacity at v	oltage			
		440V	А	144
		500V	A	120
		690V	A	94
Resistance per pole (a			mΩ	2.5
Power dissipation per	pole (average value)			
		lth	W	2.6
Tightening torque for t	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for a	coil terminal			0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin Ibin	0.8
Mox number of wire -		max	lbin Nr	0.74
	simultaneously connectable		Nr.	2
Conductor section	AM/C/Kamil			
	AWG/Kcmil	2 21		10
	Elovible w/e lug conductor contian	max		10
	Flexible w/o lug conductor section	min	mm²	1
		min	mm²	1 6
	Flexible c/w lug conductor section	max	111111	0
	TIENDIE OWING CONDUCTOR SECTION	min	mm²	1
		11111	111111	I



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 120VAC 60HZ

	max	mm²	4
Flexible with insulated spade lug conductor sectio		2	
	min	mm²	1
	max	mm²	4 IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Neight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		A	10
EC/EN 60947-5-1 designation			A600 - P600
Operating current AC15		-	
	230V	A	3
	400V	A	1.9
Depreting ourrent DC12	500V	A	1.4
Operating current DC12	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	А	2.9
	60V	А	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.6
	600V	A	0.1
Operations		ovelee	20000000
Mechanical life Electrical life		cycles	2000000
Safety related data		cycles	400000
Performance level B10d according to EN/ISO 13489-1			
enormance level brod according to EN/150 15469-1	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1		0,000	YES
EMC compatibility			yes
AC coil operating			,
Rated AC voltage at 60Hz		V	120
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

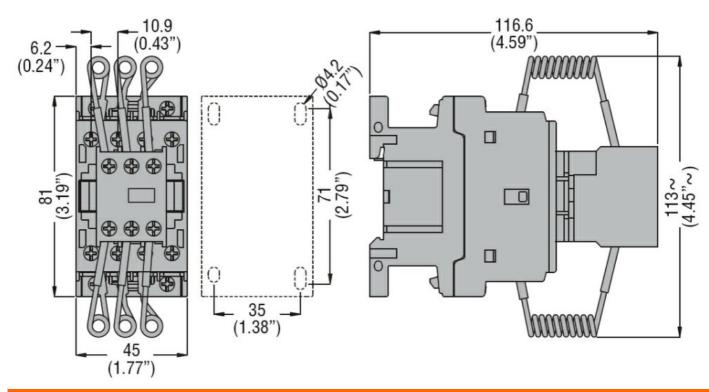
AC average coil consumption at 20°C

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 120VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
	•		in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
			DC current	А	1
	ary contacts according to	o UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	on in in in its second s				
Pollution degree					3
Dimensions [mm (in)]					

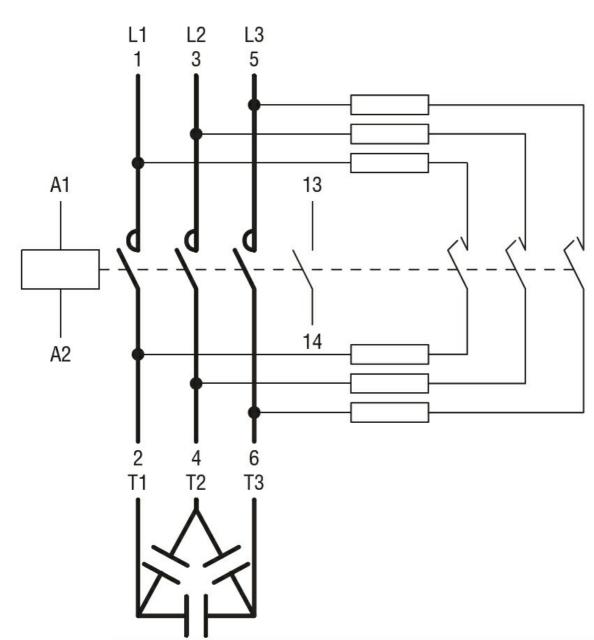


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 120VAC 60HZ





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 120VAC 60HZ



Certifications and compliance

Compl	iance
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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 220VAC 60HZ



Product designation				Power contactor
Product type designat				BFK18
Contact characteristic	S			-
Number of poles			Nr.	3
Rated insulation volta	-		V	690
Rated impulse withsta			kV	6
Operational frequency	/			
		min	Hz	25
150.0		max	Hz	400
	e air thermal current Ith		Α	32
Rated operational pov	wer AC-6b (1≤40°C)	0001		
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
	current for 10s (IEC/EN60947-1)		Α	200
Protection fuse				
	.	gG (IEC)	A	40
Making capacity (RMS			Α	180
Breaking capacity at v	roltage	((0) (
		440V	A	144
		500V	A	120
		690V	<u>A</u>	94
Resistance per pole (mΩ	2.5
Power dissipation per	pole (average value)	14		
The first free free to be a free free		lth	W	2.6
Tightening torque for	terminais		N	4 5
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
Tinhtonin e teneve fee		max	lbin	1.5
Tightening torque for	coli terminal		Niss	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin Ibin	0.8
Max number of wires	aimultanagualy gangastabla	max	lbin Nr	0.74 2
Conductor section	simultaneously connectable		Nr.	2
	AWG/Kcmil			
		200		10
	Flexible w/o lug conductor section	max		10
	FIEXIBLE W/O TUG CONDUCTOR SECTION	min	mm ²	1
		min	mm²	-
	Elevible e/w lug conductor section	max	mm²	6
	Flexible c/w lug conductor section		mm^2	1
		min	mm²	1

BFK1810A22060 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



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 220VAC 60HZ

	max	mm²	4
Flexible with insulated spade lug conductor section		mm ²	1
	min max	mm² mm²	1 4
Power terminal protection according to IEC/EN 60529	max		IP20 when properly wired
Mechanical features			property wrea
Derating position			
- F - , 2	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	408
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15		-	
	230V	A	3
	400V	A	1.9
Depreting ourrent DC12	500V	A	1.4
Operating current DC12	110V	А	5.7
Operating current DC13			
	24V	Α	5.7
	48V	A	2.9
	60V 110V	A	2.3 1.25
	110V 125V	A A	1.25
	123V 220V	A	0.6
	600V	A	0.1
Operations	0001	7.	0.1
Vechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data		-,	
Performance level B10d according to EN/ISO 13489-1			
-	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
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		0/17-	20
	min	%Us %Us	20 55
AC average coil consumption at 20°C	max	/005	55

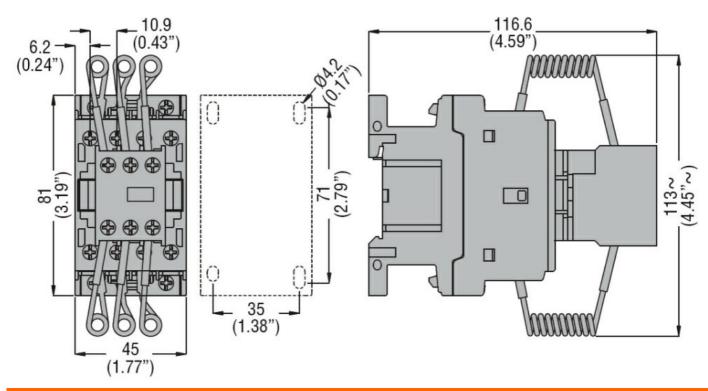
AC average coil consumption at 20°C

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 220VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	А	10
			DC voltage	V	250
			DC current	А	1
Contact rating of auxili	ary contacts according to) UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
	- •		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions [mm (in)]					

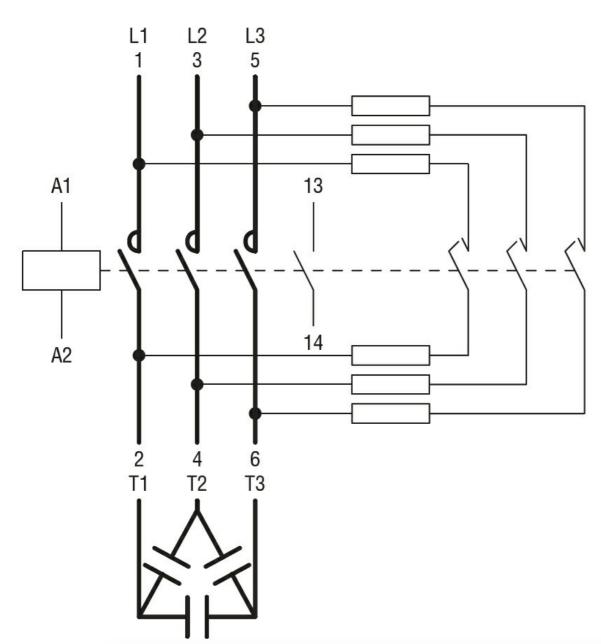


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 220VAC 60HZ





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 220VAC 60HZ



Certifications and compliance

Com	nlionoo
COM	pliance

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	
	EAC	
ETIM classification	1	
		EC001079 -
ETIM 8.0		Capacitor

contactor

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 60HZ



				(Charle)
Product designation				Power contactor
Product type designat	tion			BFK18
Contact characteristic				
Number of poles			Nr.	3
Rated insulation volta	ae Ui IEC/EN		V	690
Rated impulse withsta	-		kV	6
Operational frequency				0
operational nequency	y	min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith	Παλ	A	32
Rated operational pov			~	52
		2201/	la cor	0
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
	current for 10s (IEC/EN60947-1)		A	200
Protection fuse				
		gG (IEC)	A	40
Making capacity (RMS	· · · · · · · · · · · · · · · · · · ·		А	180
Breaking capacity at v	voltage			
		440V	А	144
		500V	Α	120
		690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		lth	W	2.6
Tightening torque for	terminals			
0 0 1		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	coil terminal	max	10111	
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	ΠΙάλ	Nr.	2
Conductor section	Simulareously connectable		INI.	۲
	AWC/Komil			
	AWG/Kcmil			10
		max		10
	Flexible w/o lug conductor section		2	
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 60HZ

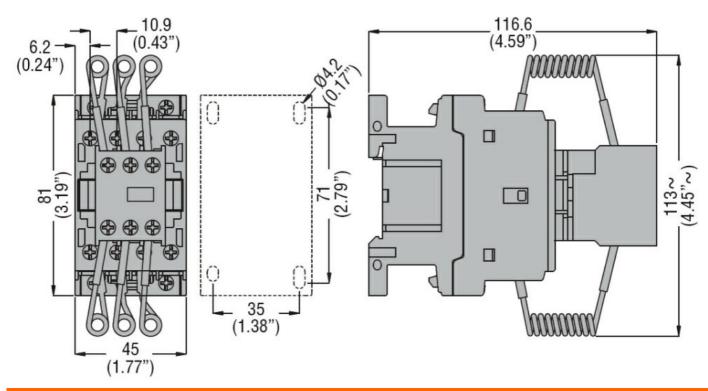
		max	mm²	4
Ī	Flexible with insulated spade lug conductor s			
		min	mm²	1
		max	mm²	4 1000 when
· · · · · · · · · · · · · · · · · · ·	n according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	4080
Conductor section			U	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact characte	eristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 desig	nation			A600 - P600
Operating current AC15				
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC12		4401/	•	- -
		110V	A	5.7
Operating current DC13		241/	^	F 7
		24V 48V	A A	5.7 2.9
		48 V 60 V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.6
		600V	А	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	400000
Safety related data				
Performance level B10d	according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	2000000
Mirror contats according	to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				000
Rated AC voltage at 60H	Z		V	230
AC operating voltage	of 60Hz coil powered at 60Liz			
(of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us %Us	110
	drop-out	IIIdX	/005	110
	diop-out	min	%Us	20
		max	%Us	55
AC average coil consum		max	,	~~

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
	•		in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
			DC current	А	1
	ary contacts according to	o UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	on la				
Pollution degree					3
Dimensions [mm (in)]					

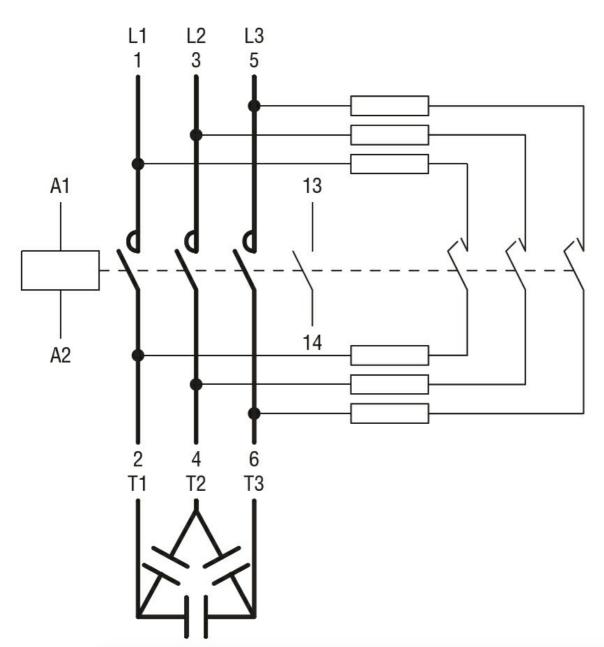


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 60HZ





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 230VAC 60HZ



Certifications and 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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

contactor

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 460VAC 60HZ



BFK1810A46060

Product designation Power contactor Product type designation BFK18 Contact characteristics Number of poles Nr. Number of poles Nr. 3 Rated insulation voltage UIEC/EN V 690 Rated insulation voltage UIEC/EN V 6 Operational frequency min Hz 25 max HZ 400 15 IEC Conventional frequency a 32 Rated operational power AC-6b (Ts40°C) 200V kvar 9 4000 Karaf 15 440480V kvar 15 440480V kvar 15 440480V kvar 16 Protection fuse gG (IEC) A 200 Protection fuse gG (IEC) A 180 Breaking capacity at voltage 440V A 144 500V A 144 Short-time allowable current for 10s (IEC/EN60947-1) A 120 680V A 144 500V A 1420 680V A					
Contact characteristics Nr. 3 Number of poles Nr. 3 Rated insulation voltage UIEC/EN V 690 Rated insulation voltage UIEC/EN KV 6 Operational frequency min Hz 25 max Hz 400 15 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 440480V kvar 17 690V kvar 17 690V kvar 17 690V kvar 20 Protection fuse gG (IEC) A 40 440480V kvar 17 690V kvar 10 A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 120 Power dissipation per pole (average value) min Nin	-				Power contactor
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional frequency min Hz 400 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 9 400V kvar 9 400V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse GG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 144 500V A 120 690V A 144 500V A 120 690V A 144 500V A 120					BFK18
Rated insulation voltage UirEC/EN V 690 Rated inpulse withstand voltage Uirp KV 6 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440. 440480V kvar 15 440480V kvar 15 440480V kvar 15 440480V kvar 16 Protection fuse gG (IEC) A 200 Protection fuse gG (IEC) A 144 500V Ka 144 500V A 144 500V A 120 690V A 144 500V A 120 690V A 94 Resistance per pole (average value) mún 15 min 16 Tightening torque for coil terminals		S			
Rated impulse withstand voltage Ulimp kV 6 Operational frequency min Hz 25 max Hz 400 16C Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440480V kvar 15 440480V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) G90V A 180 Breaking capacity at voltage 440V A 180 Breaking capacity at voltage 440V A 144 500V A 120 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Tightening torque for coil terminals min Nm 1.5 max Nm 1.8 min< bin	-				
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440480V kvar 15 440480V kvar 17 690V kvar 17 690V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 Making capacity at voltage 440V A 144 500V A 120 Power dissipation per pole (average value) m0 2.5 Power dissipation per pole (average value) mn 1.5 Tightening torque for coil terminal min Nm 1.8 min 1.1 max Nm 1.8 min 1.6<	Rated insulation voltage	ge Ui IEC/EN			690
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withsta	Ind voltage Uimp		kV	6
$\begin{tabular}{ l l l l l l l l l l l l l l l l l l $	Operational frequency	/			
IEC Conventional free air thermal current lth A 32 Rated operational power AC-6b (T≤40°C) 230V kvar 9 440480V kvar 15 440480V kvar 17 690V kvar 17 690V kvar 17 690V kvar 16 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 144 500V A 144 500V A 144 500V A 144 500V A 144 500V A 144 500V A 120 690V A 144 500V A 144 500V A 120 6 114 120 70 Resistance per pole (average value) mΩ 2.5 114 11			min	Hz	25
Rated operational power AC-6b (T≤40°C) 230V kvar 9 400V kvar 15 440480V kvar 17 690V kvar 12 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Tightening torque for terminals min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 0.74 Min Nm 0.74 <td></td> <td></td> <td>max</td> <td>Hz</td> <td>400</td>			max	Hz	400
$\begin{array}{c ccccc} & & & & & & & & & & & & & & & & &$	IEC Conventional free	air thermal current Ith		Α	32
400V kvar 15 440480V kvar 17 690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 120 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.6 Tightening torque for terminals min Nm 1.5 min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.6 Max number of wires simultaneously connectable Nr. 2 Conductor section 74 Max number of wires simultaneously connectable	Rated operational pow	ver AC-6b (T≤40°C)			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			230V	kvar	9
690V kvar 20 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) min Nm 1.5 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 1.5 Max number of wires simultaneously connectable Nr. 2 2 Conductor section max 10 1 Flexible w/o lug conductor section min mm²<			400V	kvar	15
Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mín Nm 1.5 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coll terminal min Nm 1.5 max Nm 1.5 Tightening torque for coll terminal min Nm 1.5 min 1.6 Tightening torque for coll terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section min max 10 max 10 Flexible c/w lug conductor section min<			440480V	kvar	17
Protection fuse gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals Tightening torque for coil terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 1.5 1.5 Tightening torque for coil terminal min Nm 1.6 1.1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section max 10 10 10 10 10 10 10 1 1 1			690V	kvar	20
gG (IEC) A 40 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) th W 2.6 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.6 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 0.8 max Nm 1 min 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Ibin 0.74	Short-time allowable of	current for 10s (IEC/EN60947-1)		А	200
Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Nm 1.8 Tightening torque for coil terminals min Ibin 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Tightening torque for coil terminal min Ibin 0.8 max Nm 1 Tightening torque for coil terminal min Ibin 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section max <td< td=""><td>Protection fuse</td><td></td><td></td><td></td><td></td></td<>	Protection fuse				
Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Nm 1.5 Tightening torque for coil terminal 1.5 Tightening torque for coil terminal min Nm 0.8 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Max 10 Texible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 max max 10			gG (IEC)	А	40
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Making capacity (RMS	S value)		А	180
500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Ibin 0.74 Max mm² 10 Flexible w/o lug conductor section	Breaking capacity at v	roltage			
$\begin{tabular}{ c c c c c c } \hline & & & & & & & & & & & & & & & & & & $			440V	А	144
Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 min Ibin 1.1 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1.8 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 6			500V	А	120
Power dissipation per pole (average value) Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Conductor section AWG/Kcmil max 10 10 10 Flexible w/o lug conductor section min mmx 10 10 Flexible c/w lug conductor section min mmx 10 10			690V	А	94
Ith W 2.6 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Nm 1 min Ibin 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mm² 1 1 Flexible c/w lug conductor section min mm² 1 max min mm² 1 1 max min mm² 1 1 Flexible c/w lug conductor section min mm² 1 1	Resistance per pole (a	average value)		mΩ	2.5
Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1bin 0.8 max Nm 1 min 1bin 0.74 Max number of wires simultaneously connectable Nr. 2 2 Conductor section Max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 1	Power dissipation per	pole (average value)			
min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1.0 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6			lth	W	2.6
max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1bin 0.8 max Nm 1 min 1bin 0.8 max Ibin 0.8 max 1bin 0.8 max Ibin 0.74 0.74 0.74 Max number of wires simultaneously connectable Nr. 2 0 Conductor section max 10 1 Flexible w/o lug conductor section min mm² 1 max mm² 1 1 max mm² 6 1	Tightening torque for t	terminals			
min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 6 Flexible c/w lug conductor section min mm² 6			min	Nm	1.5
max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min 1 min Ibin 0.8 max 10 Max number of wires simultaneously connectable Nr. 2 Conductor section Max 10 Flexible w/o lug conductor section min mm² 1 min mm² 1 Flexible c/w lug conductor section			max	Nm	1.8
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Flexible w/o lug conductor section max 10 Flexible w/o lug conductor section min mm² Flexible c/w lug conductor section Flexible c/w lug conductor section min			min	lbin	1.1
min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 6 Flexible c/w lug conductor section Flexible c/w lug conductor section 10			max	lbin	1.5
max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section Flexible c/w lug conductor section min mm² 1	Tightening torque for a	coil terminal			
min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil 10 Flexible w/o lug conductor section max 10 Flexible w/o lug conductor section max 10 Flexible c/w lug conductor section Flexible c/w lug conductor section 10			min	Nm	0.8
max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil 10 Flexible w/o lug conductor section max 10 Flexible c/w lug conductor section max 6 Flexible c/w lug conductor section Flexible c/w lug conductor section 0.74			max	Nm	1
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil 10 Flexible w/o lug conductor section min mm² 1 Max max 10 10 10 Flexible w/o lug conductor section Flexible w/o 10 10 Max mm² 1 1 Max mm² 1 1 Max mm² 1 1 Max mm² 1 1 Max max mm² 1 Max max max 10 1			min	lbin	0.8
Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 6 Flexible c/w lug conductor section Flexible c/w lug conductor section 6			max	lbin	0.74
AWG/Kcmil max 10 Flexible w/o lug conductor section min mm ² 1 max mm ² 6 Flexible c/w lug conductor section	Max number of wires	simultaneously connectable		Nr.	2
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section	Conductor section				
Flexible w/o lug conductor section min mm ² 1 max mm ² 6 Flexible c/w lug conductor section		AWG/Kcmil			
min mm ² 1 max mm ² 6 Flexible c/w lug conductor section			max		10
min mm ² 1 max mm ² 6 Flexible c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section		-	min	mm²	1
Flexible c/w lug conductor section			max		6
-		Flexible c/w lug conductor section			
		-	min	mm²	1

BFK1810A46060 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



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 460VAC 60HZ

_		max	mm²	4
F	Flexible with insulated spade lug conductor se		2	
		min	mm² mm²	1
		max	11111	4 IP20 when
	n according to IEC/EN 60529			properly wired
Mechanical features				
Operating position		normal		Vartical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	416
Conductor section				
ŀ	AWG/kcmil conductor section			
		max		10
Auxiliary contact characte	eristics			
Thermal current Ith			A	10
EC/EN 60947-5-1 desig	nation			A600 - P600
Operating current AC15			-	
		230V	A	3
		400V	A	1.9
Operating ourrent DC12		500V	A	1.4
Operating current DC12		110V	А	5.7
Operating current DC13		1100		0.7
		24V	А	5.7
		48V	A	2.9
		60V	A	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.6
		600V	А	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	400000
Safety related data				
Performance level B10d	according to EN/ISO 13489-1			(
		rated load	cycles	400000
A		mechanical load	cycles	2000000
Mirror contats according	10 IEC/EN 6094/4-4-1			YES
EMC compatibility				yes
	7		V	460
Rated AC voltage at 60H AC operating voltage			v	400
	of 60Hz coil powered at 60Hz			
(pick-up			
	pick up	min	%Us	80
		max	%Us	110
	drop-out	max		
		min	%Us	20

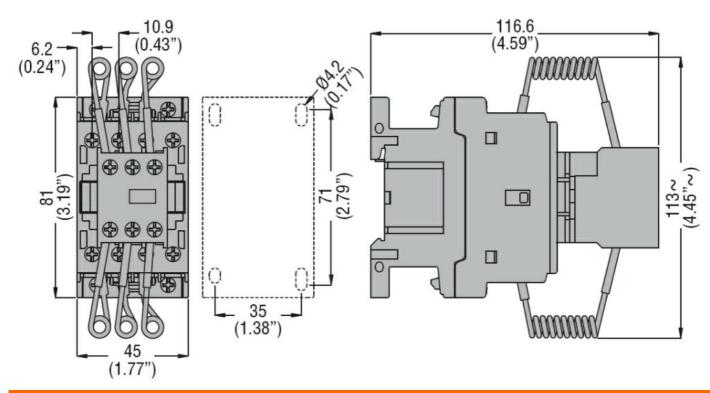
AC average coil consumption at 20°C

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 460VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
	1		in-rush	VA	75
			holding	VA	9
Dissipation at holding :	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		-	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
<u></u>			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	А	10
			DC voltage	V	250
			DC current	Α	1
_	ary contacts according to	o UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature	;			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions [mm (in)]					



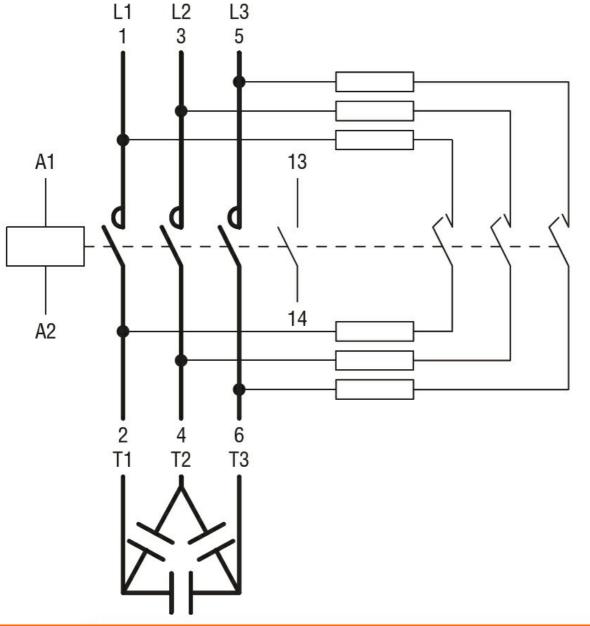
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 460VAC 60HZ





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 460VAC 60HZ





Certifications and compliance

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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	
	EAC	
ETIM classification		
		EC001079 -
ETIM 8.0		Capacitor

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 575VAC 60HZ



Product designation				Power contactor
Product type designat	ion			BFK18
Contact characteristic				
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		А	32
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	9
		400V	kvar	15
		440480V	kvar	17
		690V	kvar	20
	current for 10s (IEC/EN60947-1)		Α	200
Protection fuse				
		gG (IEC)	Α	40
Making capacity (RMS	•		Α	180
Breaking capacity at v	oltage			
		440V	А	144
		500V	A	120
		690V	A	94
Resistance per pole (a			mΩ	2.5
Power dissipation per	pole (average value)			
		lth	W	2.6
Tightening torque for t	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for a	coil terminal			0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin Ibin	0.8
Mox number of wire -		max	lbin Nr	0.74
Conductor section	simultaneously connectable		Nr.	2
Conductor Section	AM/C/Kamil			
	AWG/Kcmil	2 21		10
	Elovible w/e lug conductor contian	max		10
	Flexible w/o lug conductor section	min	mm²	1
		min	mm²	1 6
	Flexible c/w lug conductor section	max	111111	0
	TIENDIE OWING CONDUCTOR SECTION	min	mm²	1
		11111	111111	I



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 575VAC 60HZ

	max	mm²	4
Flexible with insulated spade lug conductor se	ection		
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			Vertical plan
	normal allowable		Vertical plan ±30°
Fixing	anowabic		Screw / DIN rail
Weight		g	416
Conductor section		9	
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	0001	•	2
	230V 400V	A	3
	400V 500V	A A	1.9 1.4
Operating current DC12	3007	7	1.4
	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	A	2.9
	60V	A	2.3
	110V 125V	A	1.25 1.1
	125V 220V	A A	0.6
	600V	A	0.0
Operations	0001	~	0.1
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
	mechanical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating		V	575
Rated AC voltage at 60Hz AC operating voltage		V	575
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
·	min	%Us	20

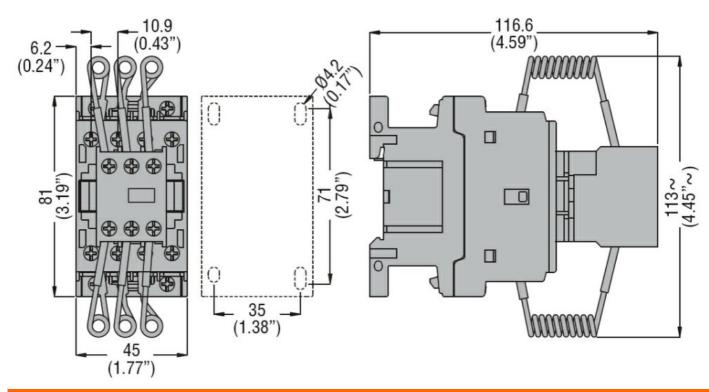
AC average coil consumption at 20°C

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 575VAC 60HZ

	of 60Hz coil powered a	at 60Hz			
	•		in-rush	VA	75
			holding	VA	9
Dissipation at holding ≤	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
UL technical data					
General USE					
	Contactor				
			AC current	А	32
	Auxiliary contacts				
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
			DC current	А	1
	ary contacts according to	o UL			A600 - P600
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	on la				
Pollution degree					3
Dimensions [mm (in)]					

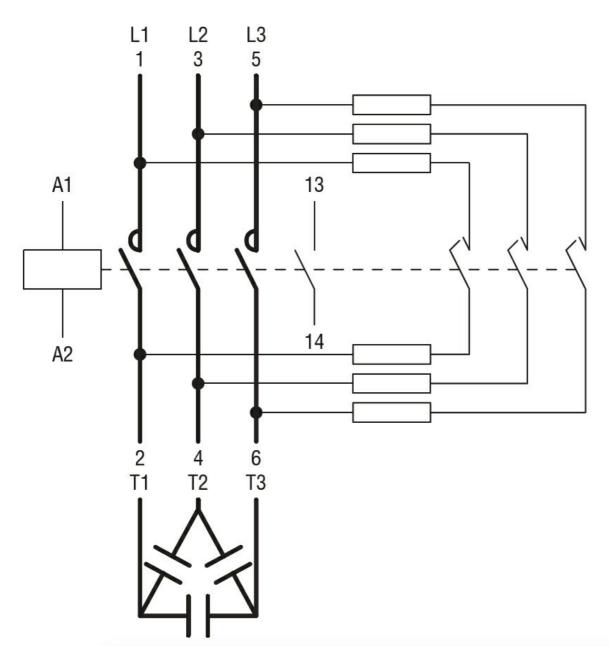


CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 575VAC 60HZ





CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 575VAC 60HZ



Certifications and compliance

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ompliance		
	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	
ertificates		
	CCC	
	cULus	
	EAC	
TIM classification		
		EC001079 -
TIM 8.0		Capacitor

contactor