

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 400VAC 50/60HZ



Product designation				Power contactor
Product type designat				BFK09
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation volta			V	690
Rated impulse withsta	and voltage Uimp		kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	25
Rated operational pov	wer AC-6b (T≤40°C)			
		230V	kvar	4.5
		400V	kvar	7.5
		440480V	kvar	9
		690V	kvar	10
	current for 10s (IEC/EN60947-1)		А	150
Protection fuse				
		gG (IEC)	Α	16
Making capacity (RMS			Α	90
Breaking capacity at v	voltage			
		440V	А	72
		500V	А	72
		690V	A	71
	Resistance per pole (average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	1.6
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	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		-	
		min	mm²	1
	<u></u>	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



**BFK0910A400** CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR,

COIL 400VAC 50/60HZ max mm² 4 Flexible with insulated spade lug conductor section min mm<sup>2</sup> 1 mm² 4 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired

Mechanical features Operating position

	normal allowable		Vertical plan ±30°
Fixing	allowable		Screw / DIN rail 35mm
Weight	g	J	428
Conductor acation			

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	А	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	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 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			
Rated AC voltage at 50/60Hz		V	400
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			
nick un			

pick-up



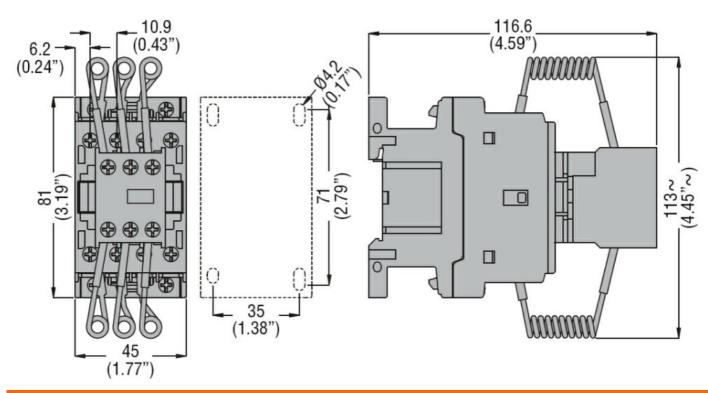
CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 400VAC 50/60HZ

		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil con	sumption at 20°C	max	/000	
Ao average con con	of 50/60Hz coil powered at 50Hz			
	of 50/00Hz coll powered at 50Hz	in much	١/٨	75
		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 holdin	a <20°C 50Hz		W	2.5
Max cycles frequend			vv	<u> </u>
			ovolaa/b	2600
Mechanical operatio			cycles/h	0000
Operating times				
Average time for Us				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	- p	min	ms	10
		max	ms	20
	Closing NC	тах	1115	20
	Closing NC	in the		4.4
		min	ms	14
		max	ms	28
UL technical data				
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts			
	,	AC voltage	V	600
		AC current	Å	10
		DC voltage	V	250
		DC voltage		1
Contact ratio f -	vilian ( contacto concreting to 1.11	DC current	A	
	kiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	<b>č</b>	min	°C	-60
		max	°Č	80
Max altitude		max	 	3000
	ation		111	5000
Resistance & Protec				
Pollution degree				3
Dimensions				

BFK0910A400



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 400VAC 50/60HZ

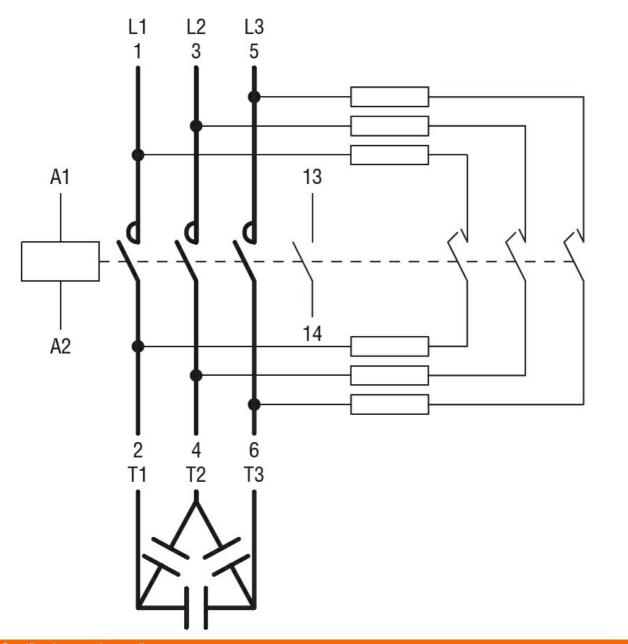


Wiring diagrams



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 400VAC 50/60HZ





## Certifications and compliance

<u> </u>	
( 'omn	lianco
Comp	

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