

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 24VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK09
Contact characteristics			BIIK00
Number of poles		Nr.	3
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 Ith		А	25
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	4.5
	400V	kvar	7.5
	440480V	kvar	9
	690V	kvar	10
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	A	16
Making capacity (RMS value)		А	90
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	14		4.0
	Ith	W	1.6
Tightening torque for terminals		Nies	4 5
	min	Nm	1.5
	max	Nm	1.8
	min	lbin Ibin	1.1
Tightening torque for coil terminal	max	lbin	1.5
	min	Nm	0.8
	min max	Nm Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	тах	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			
č	min	mm²	1

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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

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	max	mm²	4
Flexible with insulated spade lug conductor se	ction		
	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
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	420
Conductor section		9	420
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		А	10
EC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	А	3
	400V	A	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	24
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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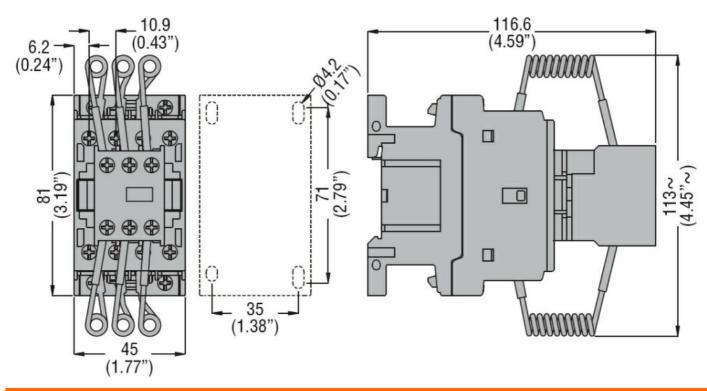
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		min	%Us	85
		max	%Us	110
	drop-out			
	•	min	%Us	20
		max	%Us	55
AC average coil cons	aumation at 20°C	Пал	/003	00
AC average con cons				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	ŭ		
		in-rush	VA	75
		holding	VA	9
Dissionation at healding		noiuing		
Dissipation at holding			W	2.5
Max cycles frequenc				
Mechanical operation	ו		cycles/h	3600
Operating times				
Average time for Us	control			
č	in AC			
	Closing NO			
	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				
Conordi COL	Contactor			
	Contactor		٨	25
	Auviliant contects	AC current	A	25
	Auxiliary contacts		. <i>.</i>	
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions	· · · · · · · · · · · · · · · · · · ·			
Temperature				
iomporataro	Operating temperature			
	Operating temperature		° ^	F0
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
				5
Dimensions				

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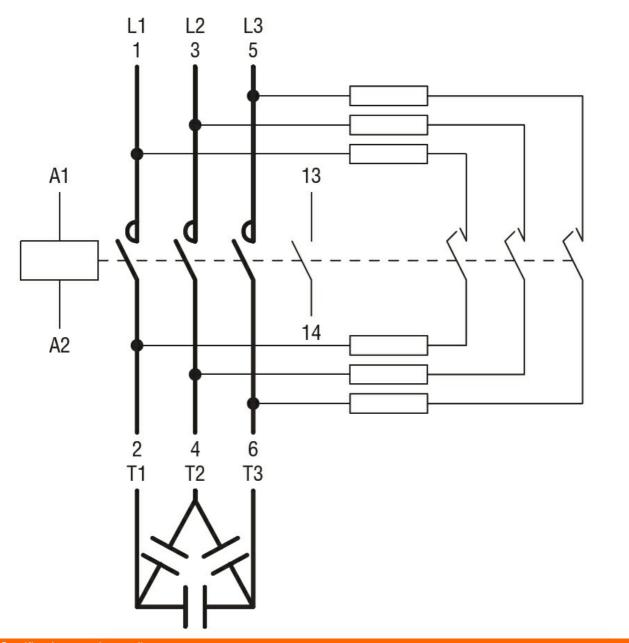


Wiring diagrams



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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		
		EC001079 -
ETIM 8.0		Capacitor