

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR, COIL 230VAC 50/60HZ



BFK1210A230

Contact characteristics Nr. 3 Number of poles Nr. 3 Rated insulation voltage UI IEC/EN V 690 Rated insulation voltage UIIEC/EN KV 6 Operational frequency min Hz 25 max Hz 400 IEC Conventional frequency min Hz 25 Rated operational power AC-6b (Ts40°C) 230V kvar 7 400V kvar 14 690V kvar 14 690V kvar 150 1400V kvar 16 Short-time allowable current for 10s (IEC/EN60947-1) A 150 120 1400V kvar 16 Short-time allowable current for 10s (IEC/EN60947-1) A 120 120 120 Breaking capacity (RMS value) A 120 120 120 120 Breaking capacity at voltage 440V A 96 500V A 96 GOV kvar 120 min Nm 1.5 120 120	Product designation				Power contactor
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Operational frequency min Hz 25 Operational frequency max Hz 400 IEC Conventional free air thermal current lth A 28 Rated operational power AC-6b (T≤40°C) 230V kvar 7 400V kvar 7 400V kvar 14 690V kvar 7 400V kvar 16 Short-time allowable current for 10s (IEC/EN60947-1) A 150 900 kvar 16 Protection fuse gG (IEC) A 25 1440V A 96 Breaking capacity (RMS value) A 120 120 120 120 Breaking capacity at voltage 440V A 96 500V A 96 690V A 96 500V A 96 690V A 25 Power dissipation per pole (average value) m1 max <td< td=""><td></td><td></td><td></td><td></td><td>BFK12</td></td<>					BFK12
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$\begin{array}{c cccccc} & 230V & \text{kvar} & 7 \\ 400V & \text{kvar} & 12.5 \\ 440480V & \text{kvar} & 14 \\ 690V & \text{kvar} & 16 \\ \hline \\ $				A	28
400v kvar 12.5 440480V kvar 14 690V kvar 16 Short-time allowable current for 10s (IEC/EN60947-1) A 150 Protection fuse gG (IEC) A 25 Making capacity (RMS value) A 120 Breaking capacity at voltage 440V A 96 500V A 96 500V A 96 500V A 96 500V A 96 690V A 94 A 96 500V 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 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1.5 Tightening torque for coil terminal min	Rated operational pol	Wer AC-6D $(1 \leq 40^{\circ}C)$	0001/	1	7
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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 10 Max number of wires simultaneously connectable Nr. 2 Conductor section Max 10 Flexible w/o lug conductor section min mm² 1 max mm² 1 max 10	Power dissipation per	pole (average value)			
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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
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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			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 mm² 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			
max mm ² 6 Flexible c/w lug conductor section		-	min	mm²	1
Flexible c/w lug conductor section			max		6
-		Flexible c/w lug conductor section			
		č	min	mm²	1



BFK1210A230 CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR,

COIL 230VAC 50/60HZ

	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 allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current lth		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	0001	^	2
	230V 400V	A	3 1.9
	400V 500V	A A	1.9
Operating current DC12	300 V		1.4
	110V	А	5.7
Operating current DC13			011
	24V	А	5.7
	48V	А	2.9
	60V	А	2.3
	110V	А	1.25
	125V	А	1.1
	220V	Α	0.6
	600V	А	0.1
Operations			0000000
Mechanical life Electrical life		cycles	20000000 400000
Safety related data		cycles	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	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
(50/0011 - 11 - 1 - 1 - 0011	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			

pick-up

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR, AND AUTOMATION COIL 230VAC 50/60HZ

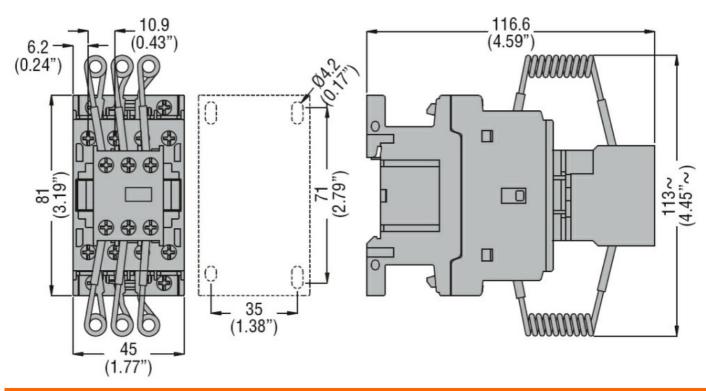
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil con	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	g ≤20°C 50Hz	9	W	2.5
Max cycles frequenc				
Mechanical operation			cycles/h	3600
Operating times			eyelee/II	0000
Average time for Us	control			
Average and for 05	in AC			
	Closing NO	min		0
		min	ms	8
		max	ms	24
	Opening NO			4.0
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
UL technical data				
General USE				
	Contactor			
		AC current	Α	28
	Auxiliary contacts			
		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				
	Operating temperature			
		min	°C	-50
		max	°Č	70
	Storage temperature	тах		
		min	°C	-60
		max	°C	80
Max altitude		Παλ		3000
	tion		m	3000
Resistance & Protec				
Dollution docurs				0
Pollution degree Dimensions				3

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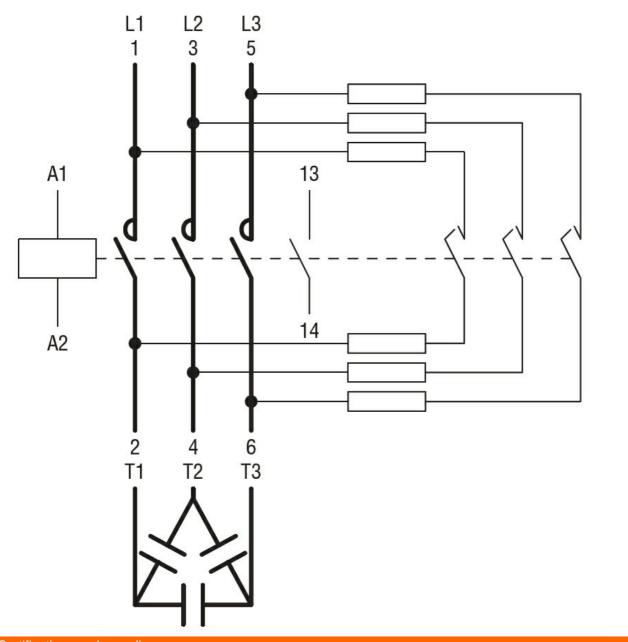
Wiring diagrams

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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR, COIL 230VAC 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

contactor