

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	tion			BFK18
Contact characteristic				
Number of poles			Nr.	3
Rated insulation voltage	ge Ui IEC/EN		V	690
Rated impulse withsta			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)		А	200
Protection fuse				
		gG (IEC)	А	40
Making capacity (RMS	S value)		А	180
Breaking capacity at v	roltage			
		440V	А	144
		500V	А	120
		690V	А	94
Resistance per pole (a	average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		lth	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 o	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			
	<u></u>	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

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	max	mm²	4
Flexible with insulated spade lug conductor sect			•
	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	428
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics		^	10
Thermal current lth		Α	10 A600 - P600
IEC/EN 60947-5-1 designation Operating current AC15			A000 - P000
Operating current AC15	230V	А	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12			
	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	Α	2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V 600V	A	0.6
Operations	6007	A	0.1
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data		0)0.00	
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	nin	%Us	80
	min max	%Us %Us	80 110
drop-out	max	/003	
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			

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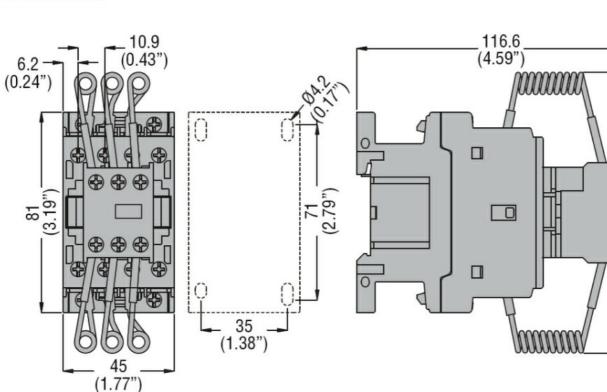
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C	Пах	/000	
AC average con cons	•			
	of 50/60Hz coil powered at 50Hz	in much	١/٨	75
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
			Cycle5/11	5000
Operating times				
Average time for Us of				
	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		Шал	1115	20
General USE				
General USE				
	Contactor			
		AC current	A	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Contact rating of auxil	liary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
romporature	Operating temperature			
	Operating temperature	! -	° ^	50
		min	°C	-50
	-	max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				-
Binchsions				

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113~ (4.45"~)



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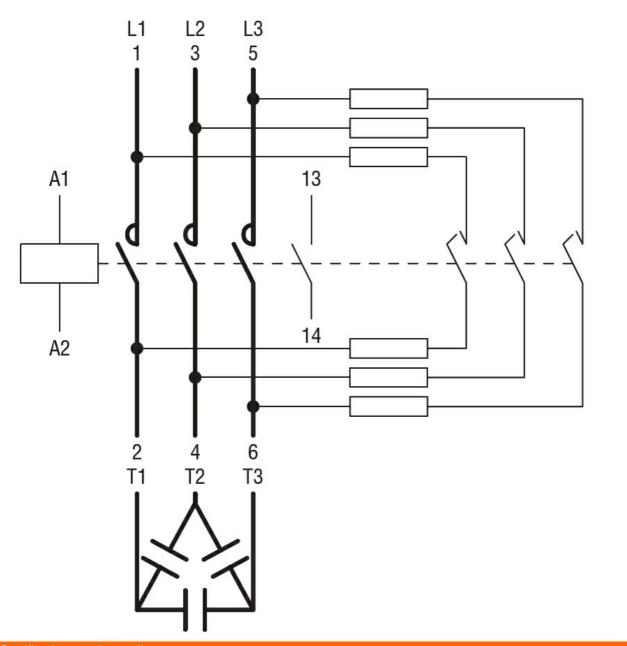


Wiring diagrams



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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	1	
		EC001079 -
ETIM 8.0		Capacitor

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contactor