

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				
Number of poles			Nr.	3
Rated insulation volta	ge Ui IEC/EN		V	690
Rated impulse withsta			kV	6
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free		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)		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		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	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

0 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

ENERGY AND AUTOMATION

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		m m ²	4
Flexible with insulated spade lug conductor sec	max	mm²	4
Thexible with insulated space by conductor sec	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
Weight		g	418
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics		^	10
Thermal current lth		A	10 10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	230V	А	3
	230V 400V	A	3 1.9
	400V 500V	A	1.4
Operating current DC12	0001	7	1.7
	110V	А	5.7
Operating current DC13			
	24V	А	5.7
	48V	А	2.9
	60V	А	2.3
	110V	А	1.25
	125V	A	1.1
	220V	Α	0.6
	600V	A	0.1
Operations			
Mechanical life		cycles	2000000
Electrical life Safety related data		cycles	400000
Performance level B10d according to EN/ISO 13489-1			
renormance level brou according to Enviso 13403-1	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1		0)0.00	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			
pick-up			

pick-up

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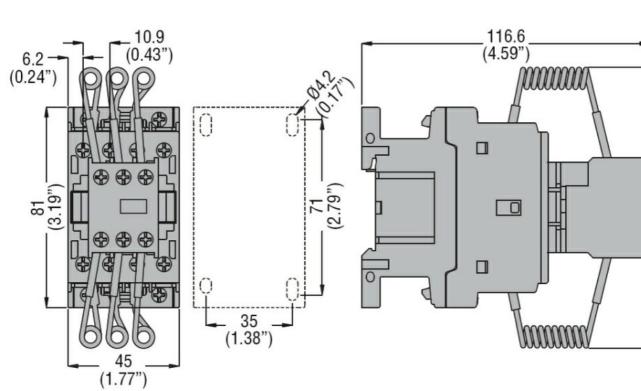
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	onsumption at 20°C	Пах	/000	00
AC average coll co				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	Ŭ		
		in-rush	VA	75
			VA	9
<u> </u>	(0000 501)	holding		
Dissipation at holdi			W	2.5
Max cycles frequer				
Mechanical operati	on		cycles/h	3600
Operating times				
Average time for U	s control			
J J	in AC			
	Closing NO			
		min	ma	8
			ms	
		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			
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	A	1
Contact rating of a	uxiliary contacts according to UL	20 Sunont		A600 - P600
Ambient conditions				7.000 - 1.000
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	č	min	°C	-60
		max	°C	80
Max altitude		Παλ		
			m	3000
Resistance & Prote				
Pollution degree				3
Dimensions				

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113~ (4.45"~)



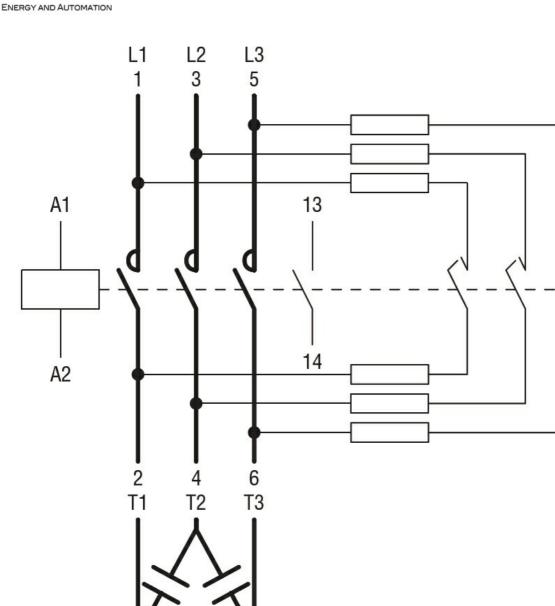
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Wiring diagrams



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Certifications and compliance

Compliance

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 classificatio	n	
ETIM 8.0		EC001079 - Capacitor contactor

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