

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 575VAC 60HZ

Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency		Nr.	BFK150 3
Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp			2
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp			2
Rated impulse withstand voltage Uimp			
		V	690
Operational frequency		kV	8
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	165
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	50
	400V	kvar	100
	440480V	kvar	115
	690V	kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	Prodotti finiti
	max	Ibin	Prodotti finiti
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			
	min	mm²	1.5
	max	mm²	70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	2095
Operations			



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Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility				Yes
Rated AC voltage at 60	JHZ		V	575
AC operating voltage				
AC operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7000	
	200p 0 200	min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C			
-	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
D: : : : : : : : : : : : : : : : : : :	*0000 FOLL	holding	VA	20
I liceination at holding				
Dissipation at holding:	\$20 G 30H2		W	6.5
Max cycles frequency	SZU C 30HZ			
Max cycles frequency Mechanical operation	SZU C 30HZ		cycles/h	
Max cycles frequency Mechanical operation Operating times				
Max cycles frequency Mechanical operation	ontrol			
Max cycles frequency Mechanical operation Operating times	ontrol in AC			
Max cycles frequency Mechanical operation Operating times	ontrol	min		1500
Max cycles frequency Mechanical operation Operating times	ontrol in AC	min max	cycles/h	
Max cycles frequency Mechanical operation Operating times	ontrol in AC		cycles/h	1500
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing NO		cycles/h	1500
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO	max	cycles/h ms ms	1500 16 32
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO	max min	cycles/h ms ms ms	1500 16 32 9
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO Opening NO	max min	cycles/h ms ms ms	1500 16 32 9
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO	max min max	ms ms ms ms	1500 16 32 9 24
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO Opening NO	max min	cycles/h ms ms ms	1500 16 32 9
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	ontrol in AC Closing NO Opening NO	max min max	ms ms ms ms	1500 16 32 9 24
Max cycles frequency Mechanical operation Operating times Average time for Us co	ontrol in AC Closing NO Opening NO Contactor	max min max	ms ms ms ms	1500 16 32 9 24
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	ontrol in AC Closing NO Opening NO	max min max	ms ms ms ms	1500 16 32 9 24
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	ontrol in AC Closing NO Opening NO Contactor	max min max AC current	ms ms ms ms	1500 16 32 9 24 165
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	ontrol in AC Closing NO Opening NO Contactor Operating temperature	max min max	ms ms ms ms	1500 16 32 9 24
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	ontrol in AC Closing NO Opening NO Contactor	max min max AC current min max	ms ms ms ms	1500 16 32 9 24 165
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	ontrol in AC Closing NO Opening NO Contactor Operating temperature	max min max AC current min max min	cycles/h ms ms ms A °C °C	1500 16 32 9 24 165 -50 70 -60
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions Temperature	ontrol in AC Closing NO Opening NO Contactor Operating temperature	max min max AC current min max	cycles/h ms ms ms ms cycles/h	1500 16 32 9 24 165 -50 70 -60 80
Max cycles frequency Mechanical operation Operating times Average time for Us co UL technical data General USE Ambient conditions	Operating temperature Storage temperature	max min max AC current min max min	cycles/h ms ms ms A °C °C	1500 16 32 9 24 165 -50 70 -60





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Pollution degree		3
Dimensions		
Wiring diagrams		
Certifications and comp	pliance	
Compliance		
	CSA C22.2 n° 60947-1	
	CSA C22.2 n° 60947-4-1	
	IEC/EN 60947-1	
	IEC/EN 60947-4-1	
	UL 60947-1	
	UL 60947-4-1	
Certificates		_
	CCC	
	cULus	_
ETIM classification		
ETIM 8.0		EC001079 - Capacitor contactor