



**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 100KVAR, COIL 24VAC 60HZ

Product designation				Power contactor
Product type designate	tion			BFK150
Contact characteristic	es estate de la companya de la comp			
Number of poles			Nr.	3
Rated insulation volta	ge Ui IEC/EN		V	690
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	165
Rated operational pov	wer 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	S value)		Α	1500
Breaking capacity at v	voltage			
		440V	Α	1200
		500V	Α	1025
		690V	Α	905
Resistance per pole (	average value)		mΩ	0.45
Power dissipation per				
		Ith	W	12
Tightening torque for	terminals			
9		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	Ibin	5.2
Tightening torque for	coil terminal			
9		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			
	The state with a range of the desired to be stated.	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	max		- <del>-</del>
		min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529	max		IP20 front
Mechanical features				
Operating position				
- Poraming Poolition		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	2095
Operations			9	



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Electrical life	Mechanical life			cycles	15000000
Performance level B10d according to EN/ISO 13489-1         rated load mechanical load         cycles         4000000 monomorphism           EMC compatibility         y         2           Rated AC voltage at 60Hz         y         2           AC coll operating         min         %Us         80           AC operating voltage         min         %Us         80           accompanity of 60Hz coil powered at 60Hz         min         %Us         80           accompanity of 60Hz coil powered at 60Hz         min         %Us         20           accompanity of 50%60Hz coil powered at 50Hz         in-rush         VA         300           accompanity of 60Hz coil powered at 60Hz         in-rush         VA         300           accompanity of 60Hz coil powered at 60Hz         in-rush         VA         300           bolding         VA         17         0           de 60Hz coil powered at 60Hz         in-rush         VA         300           bolding         VA         300         0           bolding         VA         300         0           bolding         VA         300         0           bolding         VA         20         0           Dissipation at holding sequence	Electrical life			cycles	800000
March   Mar	Safety related data				
Mechanical load	Performance level B10	Od according to EN/ISO 13489-1			
EMC compatibility Rated AC voltage at 60Hz AC coil operating AC coperating voltage  of 60Hz coil powered at 60Hz pick-up  min				-	
Rated AC voltage at 60Hz			mechanical load	cycles	
AC coll operating AC operating voitage  of 60Hz coil powered at 60Hz pick-up  min y6Us 80 max y6Us 110  drop-out  min y6Us 50 max y6Us 55  AC average coil consumption at 20°C  of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz  of 50/60Hz coil powered at 60Hz  of 50/60Hz coil powered at 60Hz  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 17  of 60Hz coil powered at 60Hz  in-rush VA 300 holding VA 20  Dissipation at holding 520°C 50Hz  Max cycles frequency  Average time for Us Closing NO  min ms 16 max ms 32  Opening NO  min ms 9 max ms 32  Opening NO  UL technical data  General USE  Contactor  AC current A 165  Ambient conditions  Temperature  Operating temperature  min °C -50 max °C -60 max					
AC operating voltage  of 60Hz coil powered at 60Hz  pick-up  min		)Hz		V	24
of 60Hz coil powered at 60Hz pick-up    min					
Pick-up	AC operating voltage	of COLLE acil reviewed at COLLE			
Mar		•			
Max   Mus   110   Mus   110		ріск-ир	min	%  ls	80
Acropation   Ac					
Main		drop-out		,,,,,	•
Max   Mus   Mus		L	min	%Us	20
1			max		
In-rush   NA   300   holding   VA   20	AC average coil consu	imption at 20°C			
Molding		of 50/60Hz coil powered at 50Hz			
Formation   For			in-rush	VA	300
In-rush holding   VA   300 holding   VA   17			holding	VA	20
Molding		of 50/60Hz coil powered at 60Hz			
Of 60Hz coil powered at 60Hz   In-rush   VA   300   Nolding   VA   20   Nolding   VA   20   Note   Nolding   VA   20   Note					
in-rush   vA   300   holding   vA   20   20   vA   20   20   20   vA   20   20   20   20   20   20   20   2			holding	VA	
Note		of 60Hz coil powered at 60Hz	2	) /A	000
Dissipation at holding ≤20°C 50Hz         W 6.5           Max cycles frequency           Mechanical operation         cycles/h 1500           Operating times           Average time for Us control           In AC           Closing NO           min ms 16 max ms 32           Opening NO           min ms 9 max ms 24           UL technical data           General USE           Contactor         AC current A 165           Ambient conditions           Temperature           Min °C -50 max °C 70           Storage temperature           min °C -50 max °C 70           Storage temperature           min °C -60 max °C 80           Max altitude         m 3000					
Max cycles frequency           Mechanical operation         cycles/h         1500           Operating times           Average time for Us control in AC         min ms         16 max           Closing NO         min ms         32 ms           Opening NO         min ms         9 max           UL technical data         min ms         24 ms           General USE         Contactor         AC current A ms         165 ms           Ambient conditions         AC current A ms         6 ms         165 ms           Ambient conditions         Temperature         min °C of color color color color color color max         50 ms         6 ms           Temperature         min °C of color c	Dissipation at holding	<20°C 50Hz	noiding		
Mechanical operation         cycles/h         1500           Operating times           Average time for Us control in AC         min ms         16 max           Closing NO           min ms         32           Opening NO         min ms         9 max           Max         ms         24           UL technical data           General USE           Contactor         AC current A 165           Ambient conditions           Temperature           min °C 50         -50 max           Storage temperature         min °C 50         -60 max           Storage temperature         min °C 60         -60 max           Max altitude         min 3000         00		320 C 30HZ		VV	0.5
Operating times				cycles/h	1500
Average time for Us control  in AC  Closing NO  min ms 16 max ms 32  Opening NO  min ms 9 max ms 24  UL technical data  General USE  Contactor  AC current A 165  Ambient conditions  Temperature  Operating temperature  Operating temperature  Storage temperature  min °C -50 max °C 70  Storage temperature  min °C -60 max °C 80  Max altitude  Max altitude				0,0.00,	
Closing NO					
Min ms   16 max ms   32	Average time for 03 G	ontrol			
Max   ms   32	Average time for 03 cc				
Opening NO	Average lime for 03 cc	in AC			
Max altitude	Average time for 05 cc	in AC	min	ms	16
Max   max   max   ms   24	Average time for 05 cc	in AC Closing NO			
Contactor	Average unie ioi os oc	in AC Closing NO	max		32
Contactor   AC current   A   165	Average unie ioi os oc	in AC Closing NO	max min	ms ms	9
Contactor           Ambient conditions         AC current         A 165           Temperature           Operating temperature         min °C -50 max °C 70           Storage temperature         min °C -60 max °C 80           Max altitude         m 3000		in AC Closing NO	max min	ms ms	9
AC current	UL technical data	in AC Closing NO	max min	ms ms	9
Ambient conditions	UL technical data	in AC Closing NO Opening NO	max min	ms ms	9
Operating temperature	UL technical data	in AC Closing NO Opening NO	max min max	ms ms ms	32 9 24
Max altitude         Operating temperature         min °C -50 max °C 70           min °C -50 max °C 70         min °C -60 max °C 80	UL technical data General USE	in AC Closing NO Opening NO	max min max	ms ms ms	32 9 24
min min max         °C -50 max         -50 row           Storage temperature         min °C -60 max         °C 80           Max altitude         m 3000	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO	max min max	ms ms ms	32 9 24
max         °C         70           Storage temperature         min         °C         -60           max         °C         80           Max altitude         m         3000	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO  Contactor	max min max	ms ms ms	32 9 24
Storage temperature           min         °C         -60           max         °C         80           Max altitude         m         3000	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO  Contactor	max min max  AC current	ms ms ms	32 9 24 165
min         °C         -60           max         °C         80           Max altitude         m         3000	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO  Contactor	max min max  AC current	ms ms ms	32 9 24 165
max         °C         80           Max altitude         m         3000	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO  Contactor  Operating temperature	max min max  AC current	ms ms ms	32 9 24 165
Max altitude m 3000	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO  Contactor  Operating temperature	max min max  AC current min max	ms ms ms	32 9 24 165 -50 70
Resistance & Protection	UL technical data General USE  Ambient conditions	in AC Closing NO Opening NO  Contactor  Operating temperature	max min max  AC current min max min	ms ms ms	32 9 24 165 -50 70 -60
	UL technical data General USE  Ambient conditions Temperature	in AC Closing NO Opening NO  Contactor  Operating temperature	max min max  AC current min max min	ms ms ms	32 9 24 165 -50 70 -60 80





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Pollution degree		3
Dimensions		
Wiring diagrams		
Certifications and comp	oliance	
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