

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, COIL 120VAC 60HZ

Product designation				Power contactor
Product type designat				BFK50
Contact characteristic	S			
Number of poles	111150/511		Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	8
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current Ith			Α	90
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	22
		400V	kvar	40
		440480V	kvar	41
		690V	kvar	46
	current for 10s (IEC/EN60947-1)		Α	400
Protection fuse				
-		gG (IEC)	Α	80
Making capacity (RMS	•		Α	500
Breaking capacity at v	oltage			
		440V	Α	400
		500V	Α	352
		690V	Α	312
Resistance per pole (a		mΩ	0.8	
Power dissipation per	pole (average value)			
		Ith	W	6.5
Tightening torque for t	rerminals			_
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	Prodotti finiti
		max	lbin	Prodotti finiti
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	<u> </u>			
	Flexible w/o lug conductor section			
	•	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	-	min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	1090
Operations				



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Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data				0,0.00	
	10d according to EN/IS0	O 13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					Yes
Rated AC voltage at	60Hz			V	120
AC coil operating					
AC operating voltage	9				
1 0 0	of 60Hz coil powered	d at 60Hz			
	,	pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
		•	min	%Us	20
			max	%Us	55
AC average coil con	sumption at 20°C				
	of 50/60Hz coil power	ered at 50Hz			
	·		in-rush	VA	210
			holding	VA	15
	of 50/60Hz coil power	ered at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding				W	5
Max cycles frequenc					
Mechanical operation	١			cycles/h	3600
Operating times					
Average time for Us	control				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO	max	ms	
		Opening NO	max min	ms ms	20
		Opening NO	max	ms	
UL technical data		Opening NO	max min	ms ms	20
UL technical data General USE		Opening NO	max min	ms ms	20
	Contactor	Opening NO	max min max	ms ms ms	20 55
General USE	Contactor	Opening NO	max min	ms ms	20
General USE Ambient conditions	Contactor	Opening NO	max min max	ms ms ms	20 55
General USE			max min max	ms ms ms	20 55
General USE Ambient conditions	Contactor Operating temperatu		max min max	ms ms ms	20 55





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		max	°C	70
	Storage temperature			
	3 ,	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and com	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				
				EC001079 -
ETIM 8.0				Capacitor
				contactor