



ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR, COIL 230VAC 60HZ

Product designation	tion			Power contactor BFK12
Product type designa Contact characteristic				DFKIZ
			NIn	2
Number of poles	11: IFO/FN		Nr.	3
Rated insulation volta	•		V	690
Rated impulse withsta			kV	6
Operational frequency	У			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	28
Rated operational por	wer AC-6b (T≤40°C)			
		230V	kvar	7
		400V	kvar	12.5
		440480V	kvar	14
		690V	kvar	16
Short-time allowable	current for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	Α	25
Making capacity (RMS	2 valua)	90 (120)	A	120
				120
Breaking capacity at v	/oitage	4.40\/	^	00
		440V	A	96
		500V	A	96
		690V	Α	94
Resistance per pole (mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	2
Tightening torque for	terminals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for	coil terminal			
riginorning torquo for	oon torrina	min	Nm	0.8
		max	Nm	1
		min	Ibin	Prodotti finiti
			Ibin	Prodotti finiti
NA	electronic de la constal la	max		
	simultaneously connectable		Nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529	11167		IP20 when wired
Mechanical features				25 WHOII WHOO
Operating position				
operating position		normal		Vertical plan
		normal		Vertical plan
		allowable		±30°



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Fixing			Screw / DIN rail
			35mm
Weight Auxiliary contact characteristics		g	418
Type of contact			1 NO
Thermal current Ith		A	10
IEC/EN 60947-5-1 designation		A	A600 - P600
			A000 - P000
Operating current AC15	230V	۸	2
	400V	A A	3 1.9
On a ratio at a course at DC42	500V	Α	1.4
Operating current DC12	110V	Α	5.7
Operating current DC13			
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	Α	0.6
	600V	Α	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/IS	O 13489-1		
ŭ	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-		-,	YES
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	230
AC coil operating		·	200
AC operating voltage			
of 60Hz coil powered	d at 60Hz		
01 001 12 0011 powerou	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out	,003	
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C	Пах	,,,,,	
of 50/60Hz coil power	ered at 50Hz		
51 30/00112 0011 powe	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil power		٧, ١	
01 30/00112 0011 powe	in-rush	VA	70
	holding	VA	6.5
of 60Hz coil powered		VA	0.0
or our iz con powered	in-rush	VA	75
	holding	VA VA	9
Dissipation at holding ≤20°C 50Hz	Holding	W	2.5
Max cycles frequency		V V	۷. ک
Mechanical operation		cycles/h	3600





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Operating times				
Average time for U	s control			
· ·	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
JL technical data				
General USE				
	Contactor			0.0
		AC current	Α	28
	Auxiliary contacts	A O	\/	600
		AC voltage AC current	V	600 10
		DC voltage	A V	250
		DC current	v A	1
Contact rating of a	ixiliary contacts according to UL	DC current		A600 - P600
Ambient conditions				A000 - P000
emperature				
cinperatore	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature		<u>~</u>	. •
	grand grand production	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and c	ompliance			
	ompliance			
Compliance	CSA C22.2 nº 60047.4			
	CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1			
	IEC/EN 60947-1			
	IEC/EN 60947-1 IEC/EN 60947-4-1			
	UL 60947-1			
	UL 60947-1-			
Certificates	OL 00941-4-1			
Jei illicales	CCC			
	cULus FAC			
TIM classifiestics	EAC			
ETIM classification				EC001070
ETIM 8.0				EC001079 - Capacitor contactor