



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 120VAC 60HZ

Product designation Product type designation			Power contactor BFK12
Contact characteristics			DFK12
		Nlr	3
Number of poles		Nr. V	690
Rated insulation voltage Ui IEC/EN			
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0.5
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	28
Rated operational power 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 value)		Α	120
Breaking capacity at voltage			
	440V	Α	96
	500V	Α	96
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
, , ,	lth	W	2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
Tiginoring to que to contonina.	min	Nm	0.8
	max	Nm	1
	min	lbin	Prodotti finiti
	max	Ibin	Prodotti finiti
Max number of wires simultaneously connectable	Пах	Nr.	2
Conductor section		1 11.	
Flexible w/o lug conductor section			
i levible mio lag colladolol section	min	mm²	1
			1 6
Elovible also lug conductor costico	max	mm²	U
Flexible c/w lug conductor section		mans?	1
	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor section			4
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°



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Fixing			Screw / DIN rail
			35mm
Weight Auxiliary contact characteristics		g	416
Type of contact			1 NO
Thermal current Ith		Α	10
		A	A600 - P600
IEC/EN 60947-5-1 designation			A000 - P000
Operating current AC15	230V	٨	3
	400V	A A	1.9
	500V	A	1.4
Operating current DC12	300 V	A	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/ISO 13489-1			
· ·	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	120
AC coil operating			
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
P.51. 4P	min	%Us	80
	max	%Us	110
drop-out	····an		-
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
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			
2. 22 <u> </u>	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency		.,	
Mechanical operation		cycles/h	3600
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Operating times				
Average time for L	Js control			
_	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
III de la Carta I de la Carta		max	ms	28
JL technical data				
General USE				
	Contactor	A.C. aa.t	۸	00
	Auviliant contacts	AC current	A	28
	Auxiliary contacts	AC voltage	V	600
		AC voltage AC current	v A	10
		DC voltage	V	250
		DC voltage DC current	v A	1
Contact rating of a	uxiliary contacts according to UL	DO carron	- / \	A600 - P600
Ambient condition	-			71000 1 000
emperature	~			
	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature			
	•	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and	compliance			
Compliance				
Somphanoo	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			
	EAC			
ETIM classification				
				EC001079 -
ETIM 8.0				Capacitor
				contactor