



**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 15KVAR, COIL 120VAC 60HZ

Contact disract disra	Product designation	ion			Power contactor BFK18
Number of poles					DENIO
Rated insulation voltage U i IEC/EN		5		Nlr	2
Rated impulse withstand voltage Ulimp   RV   6		as Hi IEC/EN			
Operational frequency         min hr kz max         Hz hr kz hugo           IEC Conventional free air thermal current lth         A 32           Rated operational power AC-6b (T≤40°C)         230V kvar 9 400V kvar 15 7 690V kvar 15 7 690V kvar 20           Short-time allowable current for 10s (IEC/EN60947-1)         A 2000           Protection fuse         gG (IEC)         A 40           Making capacity (RMS value)         A 180           Breaking capacity at voltage         440V A 144           500V A 120         690V A 94           Resistance per pole (average value)         m0 2.5           Power dissipation per pole (average value)         mn Nm 1.5           Tightening torque for terminals         min Nm 1.5           Tightening torque for coil terminal         min Nm 0.8           Max number of wires simultaneously connectable         Nr 2           Conductor section         min mm 1 lbin Prodotti finiti max           Flexible w/o lug conductor section         min mm 2 mm 4 mm 4 mm 4 mm 4 mm 4 mm 4 mm		•			
min   Hz   25 max   Hz   400 max		·		KV	б
EC Conventional free air thermal current ith	Operational frequency			1.1-	0.5
EC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C)   230V   kvar   9   400V   kvar   15   440480V   kvar   17   690V   kvar   20   200V   20					
Rated operational power AC-6b (T≤40°C)   230V   kvar   400V   kvar   15   440480V   kvar   15   440480V   kvar   17   690V   kvar   20   20   20   20   20   20   20   2	IFO Osmostismal for a	-:	max		
230V   kvar   9   400V   kvar   15   440480V   kvar   17   690V   kvar   17   690V   kvar   17   690V   kvar   17   690V   kvar   20   600V   6				A	32
A 000	Rated operational pov	wer AC-6b (1≤40°C)	0001/		•
A40480V   kvar   17   composition   kvar   20   composition					
Short-time allowable current for 10s (IEC/EN60947-1)					
Short-time allowable current for 10s (IEC/EN60947-1)					
Protection fuse         gG (IEC)         A         40           Making capacity (RMS value)         A         180           Breaking capacity at voltage         440V         A         144           500V         A         120         690V         A         94           Resistance per pole (average value)         mΩ         2.5         2.5           Power dissipation per pole (average value)         ith         W         2.6           Tightening torque for terminals         min         Nm         1.5           Tightening torque for coil terminal         min         Nm         1.8           Tightening torque for coil terminal         min         Nm         0.8           Tightening torque for coil terminal         min         Nm         0.8           Max         Nm         1.5         1.5           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1         1.5           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1         1.5           Tightening torque for coil terminal         min         Nm         0.8           Max number of wires si			690V		
Making capacity (RMS value)		current for 10s (IEC/EN60947-1)		A	200
Making capacity (RMS value)	Protection fuse				
Serial Resistance per pole (average value)   MΩ   2.5			gG (IEC)	Α	40
440V	Making capacity (RMS	S value)		Α	180
Soov   A   120     690V   A   94     Resistance per pole (average value)	Breaking capacity at v	roltage			
Resistance per pole (average value)   mΩ   2.5			440V	Α	144
Resistance per pole (average value)   mΩ   2.5			500V	Α	120
Power dissipation per pole (average value)			690V	Α	94
Power dissipation per pole (average value)	Resistance per pole (a	average value)		mΩ	2.5
Ith   W   2.6					
Min		,	lth	W	2.6
min   Nm   1.5   max   Nm   1.8   min   Ibin   1.1   max   Ibin   1.5	Tightening torque for t	terminals			
Max   Nm   1.8   min   Ibin   1.1   max   Ibin   1.5	0 0 1		min	Nm	1.5
Tightening torque for coil terminal  Tightening torgue for coil terminal  Tightening					
Tightening torque for coil terminal    min   Nm   0.8   max   Nm   1   min   Nm   1   Nm   Nm   1   Nm   Nm   Nm					
Tightening torque for coil terminal    min   Nm   0.8   max   Nm   1   min   Ibin   Prodotti finiti   max   Ibin   Prodotti finiti   Max number of wires simultaneously connectable   Nr.   2					
min Nm 0.8 max Nm 1 min lbin Prodotti finiti max lbin Prodotti finiti	Tightening torque for a	coil terminal	max	101	
max Nm 1 min lbin Prodotti finiti max number of wires 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  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan	riginterning torque for t	oon torrinia	min	Nm	0.8
Max number of wires simultaneously connectable  Conductor section  Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 6  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Vertical plan					
Max number of wires simultaneously connectable  Conductor section  Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible c/w lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  Min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Vertical plan					
Max number of wires simultaneously connectable  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  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Nr. 2   Divining mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position					
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     Flexible with insulated spade lug conductor section     min mm² 1 max mm² 4     Power terminal protection according to IEC/EN 60529     Mechanical features     Operating position     Operating position     Operating position     Operating position     Min mm² 1 max mm² 4     Max mm² 4     Max mm² 4     Operating position     Operating position	May number of wires	aimultan agualy agna atabla	Шах		
Flexible w/o lug conductor section  min mm² 1 max mm² 6  Flexible c/w lug conductor section  min mm² 1 max mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Vertical plan		Simultaneously connectable		INI.	
min mm² 1 max mm² 6  Flexible c/w lug conductor section  min mm² 1 max mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Normal  Vertical plan	Conductor section				
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  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Normal  Vertical plan		riexible w/o lug conductor section	!	ma :=- 2	4
Flexible c/w lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Normal  Vertical plan					
min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 1 max mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Normal  Vertical plan		EL TIL CIL COLOR	max	mm⁴	б
Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan		Flexible c/w lug conductor section	_	_	
Flexible with insulated spade lug conductor section  min mm² 1  max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan					
min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			max	mm²	4
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Nertical plan		Flexible with insulated spade lug conductor section			
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			min		
Mechanical features Operating position normal Vertical plan	-		max	mm²	
Operating position normal Vertical plan		ction according to IEC/EN 60529			IP20 when wired
normal Vertical plan	Mechanical features				
·	Operating position				
			normal		Vertical plan
			allowable		



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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
		A	A600 - P600
IEC/EN 60947-5-1 designation			A000 - P000
Operating current AC15	230V	۸	2
	400V	A A	3 1.9
Operating ourself 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/ISO	13489-1		
ŭ	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-		.,	YES
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	120
AC coil operating		·	120
AC operating voltage			
of 60Hz coil powered	at 60Hz		
01 001 12 0011 powered	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out	,003	. 10
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C	max	,,,,,,	
of 50/60Hz coil power	ed at 50Hz		
01 30/30112 3011 power	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil power		V/ \	<u> </u>
01 30/30112 3011 power	in-rush	VA	70
	holding	VA	6.5
of 60Hz coil powered		VA	0.0
oi doriz coli 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		_	
	- ···	AC current	Α	32
	Auxiliary contacts	A C 11		000
		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
De eta et estis esta	Proceedings of the Control of the Co	DC current	A	1
	uxiliary contacts according to UL			A600 - P600
mbient conditions				
emperature				
	Operating temperature		°C	50
		min	°C	-50 -70
	Ctorogo tomporaturo	max		70
	Storage temperature	min	°C	-60
		max	°C	80
Max altitude		IIIdA	m	3000
Resistance & Prote	action		111	3000
Pollution degree	5011011			3
Dimensions				3
Viring diagrams				
Certifications and o	compliance			
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			
	EAC			
ETIM classification				
				EC001079 -
ETIM 8.0				Capacitor

contactor