

**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 20KVAR, COIL 120VAC 60HZ

Note	Product designation				Power contactor
Number of poles   Nic.   3   3   3   3   3   3   3   3   3	Product type designatio	n e e e e e e e e e e e e e e e e e e e			BFK26
Rated insulation voltage Ui IEC/EN   V   690				Nle	2
Rated impulse withstand voltage Ulimp   RV   6		LE ICO/CN			
Departional frequency					
min		d voltage Ulmp		KV	6
Page 1	Operational frequency				
EC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C)  230V kvar 11 400V kvar 20 440480V kvar 25 690V kvar 25 65hort-time allowable current for 10s (IEC/EN60947-1) A 210 Protection fuse  gG (IEC) A 40 Making capacity (RMS value) A 260  Breaking capacity at voltage  440V A 208 500V A 184 690V A 186 690V A 184 690V A 186 690V A 1					
Rated operational power AC-6b (T≤40°C)  230V kvar 11 400V kvar 20 440480V kvar 25 690V kvar 26 690V kvar			max		
230V   kvar   11   400V   kvar   20   440480V   kvar   22   690V   kvar   25   690V   kvar   26   690V				A	45
A 00V   kvar   20   440480V   kvar   22   690V   kvar   25   690V	Rated operational power	er AC-6b (T≤40°C)			
A40480V   kvar   22   690V   kvar   25   690V   A   40   690V   A   184   690V   A   184   690V   A   188				kvar	
Section   Sec				kvar	
Short-time allowable current for 10s (IEC/EN60947-1)			440480V	kvar	
Protection fuse gG (IEC) A 40  Making capacity (RMS value) A 260  Breaking capacity at voltage 440V A 208 500V A 184 690V A 168  Resistance per pole (average value) mΩ 2  Power dissipation per pole (average value) th W 4  Fightening torque for terminals min Nm 2.5 max Nm 3 min lbin 1.8 max lbin 2.2  Fightening torque for coil terminal min lbin 2.2  Fightening torque for coil terminal min lbin Prodotti finiti max lbin Prodotti finiti max lbin Prodotti finiti max lbin Prodotti finiti max min 16  Max number of wires simultaneously connectable Nr. 2  Conductor section Flexible w/o lug conductor section min mm² 1.5  Flexible c/w lug conductor section min mm² 1.5  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 1.0  Flexible with insulated spade lug conductor section min mm² 2.0  Flexible with insulated spade lug conductor section min mm² 2.0  Flexible with insulated spade lug conductor section min min min min min min min min min mi			690V	kvar	25
Making capacity (RMS value)   A   260	Short-time allowable cu	rrent for 10s (IEC/EN60947-1)		Α	210
Making capacity (RMS value)   A   260	Protection fuse				
Making capacity (RMS value)   A   260			gG (IEC)	Α	40
Serial Relating capacity at voltage	Making capacity (RMS v	ralue)	-	Α	260
440V   A   208   500V   A   184   690V   A   168					
Soov   A   184     690V   A   168     Resistance per pole (average value)	0 , ,	Š	440V	Α	208
Resistance per pole (average value)  Resistance per pole (average value)  Ith W 4  Tightening torque for terminals  min Nm 2.5 max Nm 3 min lbin 1.8 max lbin 2.2  Tightening torque for coil terminal  min Nm 0.8 max Nm 1 min lbin prodotti finiti max mm² 16  Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Prower terminal protection according to IEC/EN 60529  Wechanical features  Departing position  Vertical plan					
Resistance per pole (average value)  Power dissipation per pole (average value)  Ith W 4  Fightening torque for terminals  min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2  Fightening torque for coil terminal  min Nm 0.8 max Nm 1 min Ibin Prodotti finiti max Ibin Prodotti finiti				Α	
Power dissipation per pole (average value)  Ith W 4  Fightening torque for terminals  min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2  Fightening torque for coil terminal  min Nm 0.8 max Nm 1 min Ibin Prodotti finiti max Ibin Prodotti finiti	Resistance per pole (av	rerage value)			
Tightening torque for terminals    min Nm 2.5 max Nm 3 min lbin 1.8 max lbin 2.2 max Nm 1 min lbin 2.2 max Nm 1 min lbin Prodotti finiti max mm² 16 min mm² 2.5 max mm² 16 min mm² 16 min mm² 10 min min mm² 10 min mm² 10 min					_
Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  Flexible description  Flexible description  Flexible with insulated spade lug conductor section  Flexible description  Flexible description  Flexible with insulated spade lug conductor section  Flexible description  Flexib	. oner alcolpation per p	ole (avoluge value)	Ith	W	4
min Nm   2.5   max Nm   3   min   lbin   1.8   max   lbin   2.2	Tightening torque for ter	rminals			•
max Nm 3 min lbin 1.8 max lbin 2.2  Fightening torque for coil terminal  min Nm 0.8 max Nm 1 min lbin Prodotti finiti max	rigintorning torque for tor	ais	min	Nm	2.5
Tightening torque for coil terminal  min Nm 0.8 max Nm 1 min lbin Prodotti finiti max lbin Prodotti finiti					
Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade					
Fightening torque for coil terminal    min   Nm   0.8   max   Nm   1   min   Ibin   Prodotti finiti   max   Ibin   Prodotti finiti   Nm   Nm   Nm   Nm   Nm   Nm   Nm   N					
min Nm 0.8 max Nm 1 min Ibin Prodotti finiti max Ibin Prodotti finiti	Tightening torque for co	il terminal	Пих	10111	۷.۷
max Nm 1 min lbin Prodotti finiti max lbin Prodotti finiti	rightering torque for co	il terrillar	min	Nim	0.0
min Ibin Prodotti finiti max Ibin Prodotti finiti max Ibin Prodotti finiti Max number of wires simultaneously connectable  Nr. 2  Conductor section  Flexible w/o lug conductor section  min mm² 2.5 max mm² 16  Flexible c/w lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  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 with insulated spade lug conductor section  Flexible c/w lug conductor section					·
Max number of wires simultaneously connectable  Conductor section  Flexible w/o lug conductor section  min mm² 2.5 max mm² 16  Flexible c/w lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  Power terminal protection according to IEC/EN 60529  Poperating position  Nr. 2  Definition of the conductor section  min mm² 1 max mm² 10  IP20 when wire the conductor section in the					
Flexible w/o lug conductor section    min   mm²   2.5     max   mm²   16     Flexible c/w lug conductor section    min   mm²   1     max   mm²   10     Flexible with insulated spade lug conductor section    min   mm²   1     max   mm²   10     Power terminal protection according to IEC/EN 60529   IP20 when wire weeklanical features    Description   Description   Description	Manager and a second of the second		max		
Flexible w/o lug conductor section  min mm² 2.5 max mm² 16  Flexible c/w lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Departing position  Vertical plan		multaneously connectable		Nr.	2
min mm² 2.5 max mm² 16  Flexible c/w lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Power terminal protection according to IEC/EN 60529  Mechanical features  Deparating position  Normal  Vertical plan	Conductor section				
Flexible c/w lug conductor section    min mm²   1 max mm²   10 max mm²		Flexible w/o lug conductor section	_	_	
Flexible c/w lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Departing position  The protection according to IEC/EN 60529  IP20 when wire the protection according to IEC/EN 60529  IP20 when wire the protection according to IEC/EN 60529  IP20 when wire the protection according to IEC/EN 60529  Mechanical features  Departing position  The protection according to IEC/EN 60529  IP20 when wire the protection according to IEC/EN 60529  IP20 when wire the protection according to IEC/EN 60529					
min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  min mm² 1 max mm² 1  max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Departing position  Normal  Vertical plan		- <u></u>	max	mm²	16
Flexible with insulated spade lug conductor section  min mm² 1 max mm² 10  min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Wechanical features  Departing position  normal  Vertical plan		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section  min mm² 1  max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Departing position  normal  Vertical plan			min		
min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Departing position  Inormal  Nertical plan			max	mm²	10
max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  The protection according to IEC/EN 60529  IP20 when wire according to IEC/EN 60529  Vertical plan		Flexible with insulated spade lug conductor section			
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			min	mm²	1
Mechanical features  Operating position  normal Vertical plan			max	mm²	10
Operating position normal Vertical plan	Power terminal protection	on 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			g	400
Operations  Mechanical life			cyclos	20000000
Electrical life			cycles cycles	1600000
Safety related data			Cycles	1000000
	od according to EN/ISO 13489-1			
	74 4000.4m.ig to 0.00 .	rated load	cycles	400000
		mechanical load	cycles	20000000
EMC compatibility				Yes
Rated AC voltage at 60	)Hz		V	120
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	_	0/1:	
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	75
		holding	VA VA	9
	of 50/60Hz coil powered at 60Hz	riolality	VA	9
	of 30/60/12 coll powered at 60/12	in-rush	VA	70
		holding	VA	7
	of 60Hz coil powered at 60Hz		***	•
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
	Opening NO	max	ms	24
	Opening NO	min	me	5
		min max	ms ms	5 15
	Closing NC	IIIdX	1115	13
	Closing NO	min	ms	9
		max	ms	20
UL technical data				
General USE				
	Contactor			
		AC current	Α	45
Ambient conditions				
Temperature				
=	Operating temperature			
	oporating temperature			
	operating temperature	min	°C	-50





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			0.0	70
		max	°C	70
	Storage temperature			
		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			
	EAC			
ETIM classification				
				EC001079 -
ETIM 8.0				Capacitor
				contactor