

**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ

Contact characteristics         Nr. 3           Rated insulation voltage Ui IEC/EN         V 690           Rated insulation voltage Uimp         kV 6           Operational frequency         min         Hz 25           max         Hz 400         Hz 400           IEC Conventional free air thermal current lith         A 56         56           Rated operational power AC-6b (Ts40°C)         230V kvar 14         400V kvar 25           440480V kvar 25         440480V kvar 27.5         56           480480V kvar 27.5         430         30           Short-time allowable current for 10s (IEC/EN60947-1)         A 320         320           Protection fuse         gG (IEC)         A 63           Making capacity (RMS value)         A 320         320           Breaking capacity at voltage         440V A 256         500V A 240           A 320         440V A 256         500V A 240         400           A 320         500V A 240         690V A 192         400           Resistance per pole (average value)         mn         2           Tightening torque for terminals         min         Nm         3           Min         Ibin         V         6           Tightening torque for coil terminal         min </th <th>Product designation</th> <th>tion</th> <th></th> <th></th> <th>Power contactor BFK32</th>	Product designation	tion			Power contactor BFK32
Number of poles					DFN32
Rated impulse withstand voltage Uimp         V         690           Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400         Mode           IEC Conventional free air thermal current lth         A         56           Rated operational power AC-6b (Ts40°C)         230V         kvar         14           400V         kvar         25         440480V         kvar         27.5           690V         kvar         30         30         Non-time allowable current for 10s (IEC/EN60947-1)         A         320           Protection fuse         gG (IEC)         A         63         A         320           Breaking capacity (RIMS value)         A         320         A         320         B           Breaking capacity at voltage         440V         A         256         500V         A         192         A <t< td=""><td></td><td>5</td><td></td><td>Nir</td><td>2</td></t<>		5		Nir	2
Rated impulse withstand voltage Ulimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400           IEC Conventional free air thermal current Ith         A         56           Rated operational power AC-6b (T≤40°C)         230V         kvar         14           400V         kvar         25         440480V         kvar         27.5           690V         kvar         30         30         20           Protection fuse         gG (IEC)         A         63           Making capacity (RMS value)         A         320         320           Breaking capacity at voltage         440V         A         256           690V         A         240         690V         A         192           Resistance per pole (average value)         mΩ         2         2           Power dissipation per pole (average value)         mΩ         2         2           Resistance per pole (average value)         mΩ         2         2           Resistance per pole (average value)         mΩ         0         2           Tightening torque for terminals         min         Nm         2.5           m		ao Hi JEC/EN			
Operational frequency         min hz max         Hz		•			
Min   Hz   25 max   Hz   400 max		•		KV	0
Max	Operational frequency		min	LI <del>-</del>	25
EC Conventional free air thermal current Ith Rated operational power AC-6b (Ts40°C)   230V   kvar   14   400V   kvar   25   440480V   kvar   27.5   690V   kvar   30   320   Protection fuse   gG (IEC)   A   63   320   Rational power AC-6b (Ts40°C)   A   320   Protection fuse   gG (IEC)   A   63   A   320   A   320   Rational power AC-6b (Ts40°C)   A   440V   A   256   500V   A   240   690V   A   240   6					
Rated operational power AC-6b (T≤40°C)	IFC Conventional free	air thormal aurrent lth	Шах		
230V   kvar   14   400V   kvar   25   25   440480V   kvar   27.5   690V   kvar   30				A	50
A 00V   kvar   25   440480V   kvar   27.5   690V   kvar   30   27.5   690V   kvar   30   27.5   690V   kvar   30   20   20   20   20   20   20   20	Rated operational pol	wer AC-ob (1540 C)	0001/	1	4.4
Add					
Short-time allowable current for 10s (IEC/EN60947-1)					
Short-time allowable current for 10s (IEC/EN60947-1)					
Protection fuse         gG (IEC)         A         63           Making capacity (RMS value)         A         320           Breaking capacity at voltage         440V         A         256           500V         A         192           Resistance per pole (average value)         mΩ         2           Power dissipation per pole (average value)         ith         W         6           Tightening torque for terminals         min         Nm         2.5           max         Nm         3         min         lbin         2.5           Tightening torque for coil terminal         min         Nm         0.8         max         Nm         1         min         lbin         2.2         1         1         Prodotti finiti         max         lbin         Prodotti finiti         prodotti finiti         max         lbin         Prodotti finiti         prodotti finiti         prodotti finiti         max         lbin         Prodotti finiti         prodotti finiti         max         mm         1         min         mm         1         min         mm         1         min         mm         1         1         min         mm         1         1         min         mm         1         1 </td <td></td> <td></td> <td>690V</td> <td></td> <td></td>			690V		
Making capacity (RMS value)		current for 10s (IEC/EN60947-1)		Α	320
Making capacity (RMS value)	Protection fuse				
Seaking capacity at voltage			gG (IEC)	Α	63
440	Making capacity (RMS	S value)		Α	320
Soov   A   240     690V   A   192     Resistance per pole (average value)	Breaking capacity at v	roltage			
Resistance per pole (average value)   mΩ   2			440V	Α	256
Resistance per pole (average value)  Power dissipation per pole (average value)  Ith W 6  Tightening torque for terminals  min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2  Tightening torque for coil terminal  min Nm 0.8 max Nm 1 min Ibin Prodotti finiti max Ibin Prodotti finiti			500V	Α	240
Power dissipation per pole (average value)			690V	Α	192
Power dissipation per pole (average value)	Resistance per pole (a	average value)		mΩ	2
Ith   W   6					
Min		,	lth	W	6
min Nm   2.5   max   Nm   3   min   Ibin   1.8   max   Ibin   2.2	Tightening torque for t	terminals			
Max   Nm   3   Nm   18   Nm   Nm   18   Nm   18   Nm   Nm   18   Nm   Nm   Nm   18   Nm   Nm   Nm   Nm   Nm   Nm   Nm   N	3 3 1		min	Nm	2.5
Tightening torque 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   Ibin   Prodotti finiti   max   Ibin   Prodotti finiti   max   Ibin   Prodotti finiti   Pr					
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  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  Mechanical features  Operating position  Vertical plan	Tightening torque for	coil terminal	Пах	10111	<b>L.L</b>
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 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  Mechanical features  Operating position  mormal  Vertical plan	rigitiering torque for t	con terrina	min	Nlm	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  Flexible with in					
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					
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  min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Nr. 2  In max mm² 16 In max mm² 10					
Flexible w/o lug conductor section    Flexible w/o lug conductor section   min mm² 2.5 max mm² 16	May number of wines	cine ultern a quality accompanial la	Шах		
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		simultaneously connectable		INF.	
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  Normal  Vertical plan	Conductor section	FIG. 9.1. A. L. A.			
Flexible c/w lug conductor section  min mm² 1 max mm² 10  Flexible with insulated spade 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  Operating position  Normal  Vertical plan		Flexible w/o lug conductor section		•	0.5
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  Operating position  Flexible c/w lug conductor section  min mm² 1 max mm² 10  IP20 when wired  Mechanical features  Operating position					
min mm² 1 max mm² 10  Flexible with insulated spade lug conductor section  min mm² 10  min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  IP20 when wired Mechanical features  Operating position  Normal  Vertical plan			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  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 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			min		
min mm² 1 max mm² 10  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			max	mm²	10
Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features  Operating position normal 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
Mechanical features Operating position normal Vertical plan	Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
normal Vertical plan	Mechanical features				
normal Vertical plan	Operating position				
·			normal		Vertical plan
			allowable		±30°



**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ

Fixing				Screw / DIN rail
				35mm
Weight			g	400
Operations Mechanical life			ovoloo	20000000
Electrical life			cycles cycles	1600000
Safety related data			Cycles	1000000
	Od according to EN/ISO 13489-1			
	<b>3</b>	rated load	cycles	400000
		mechanical load	cycles	20000000
EMC compatibility				Yes
Rated AC voltage at 6	OHz		V	230
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	0.0
		min	%Us	80
	drap out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consu	imption at 20°C		,,,,,	
3	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	7
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
Dissipation at holding	<20°C F0H=	holding	VA W	2.5
Max cycles frequency	SZU C 30HZ		VV	2.5
Mechanical operation			cycles/h	3600
Operating times			0,0100/11	0000
Average time for Us co	ontrol			
3 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
	Olasia a NO	max	ms	15
	Closing NC	min	mo	9
		min max	ms ms	20
UL technical data		Пах	1113	20
General USE				
<del></del>	Contactor			
		AC current	Α	56
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50





**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, COIL 230VAC 60HZ

			^ •	
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	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