



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-1 (≤55°C)	Α	20
	AC-1 (≤70°C)	Α	18
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	12
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	17
	110V	Α	12
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	15
	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	·		
,	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	A	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in ser		•	

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series





	≤24V	Α	10
	48V	Α	9
	75V	Α	8
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	13
	48V	Α	11
	75V	Α	10
	110V	Α	7
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	A	13
	110V	A	11
	220V	A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		J
TEO MAX GUITER TO DOD-DOD WILL LIN 2 TOMS WILL 4 POIES IN SELIES	≤24V	Α	15
	48V 75V	A	15
		A	15
	110V	A	12
Olastifica allegations and for 40 at (IEO/EN)000 (77.4)	220V	A	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse	0 (150)		
	gG (IEC)	Α	25
· · · · · · · · · · · · · · · · · · ·	aM (IEC)	Α	10
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
		lbin	1.5
	max	IDIII	
Tightening torque for coil terminal	max	10111	
Tightening torque for coil terminal			0.8
Tightening torque for coil terminal	min	Nm	0.8 1
Tightening torque for coil terminal	min max	Nm Nm	1
Tightening torque for coil terminal	min max min	Nm Nm Ibin	1 Prodotti finiti
	min max	Nm Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	min max min	Nm Nm Ibin	1 Prodotti finiti
Max number of wires simultaneously connectable Conductor section	min max min	Nm Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	min max min max	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	min max min max min	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable  Conductor section  Flexible w/o lug conductor section	min max min max	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	min max min max min	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2





		max	mm²	4
F	lexible with insulated spade lug conductor			
		min	mm²	1
Power terminal protection	according to IEC/EN 60529	max	mm²	IP20 when wired
Mechanical features	raccording to IEC/EIV 00329			ii 20 when whea
Operating position				
,		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	362
Auxiliary contact characte	ristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 design	nation			A600 - P600
Operating current AC15				
		230V	Α	3
		400V	A	1.9
On a ratio a surrent DC10		500V	Α	1.4
Operating current DC12		110V	Α	5.7
Operating current DC13		1100		5.7
Operating current DO13		24V	Α	5.7
		48V	A	2.9
		60V	A	2.3
		110V	Α	1.25
		125V	Α	1.1
		220V	Α	0.55
		600V	Α	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data	according to EN/ISO 13489-1			
renomiance level broad	according to EN/13O 13489-1	rated load	cycles	2000000
		mechanical load	cycles	2000000
Mirror contats according t	to IEC/EN 609474-4-1	moonamoa load	- Cy 0.00	Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50/6	0Hz		V	24
AC operating voltage				
0	f 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	f 50/60Hz coil powered at 60Hz	max	%Us	55
0	pick-up			
	ριοίλ αφ	min	%Us	85
		max	%Us	110



	drop-out			
	arop out	min	%Us	20
		max	%Us	55
AC average coil consu	motion at 20°C	тих	7000	
710 average con conse	of 50/60Hz coil powered at 50Hz			
	01 30/00112 0011 powered at 30112	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Holding	VA	
	of 30/00112 coil powered at 00112	in-rush	VA	70
		holding	VA VA	6.5
	of 60Hz coil powered at 60Hz	Holding	VA	0.5
	of bonz coil powered at bonz	in wah	1/4	75
		in-rush	VA	75
District Control Program	40000 FOLL	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
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
,	·	at 480V	Α	7.6
		at 600V	Α	0.375
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	single prices no motor	110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor	200 V	1 11	
	ioi tiliee-pilase Ao Illotoi	200/208V	HP	3
		220/230V	HP HP	3
		460/480V		5 7.5
0		575/600V	HP	7.5
General USE	Contactor			
	Contactor			-
	A 111	AC current	Α	25
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protection	fuse, 600V			
	High fault			



**ENERGY AND AUTOMATION** 

#### BF0910A024

		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
	ary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	n			
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				
				EC000066 -
ETIM 8.0				Power contactor,
				AC switching