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BG09 T4 D



BF09 T4 D-BF18 T4 D  
BF09 T4 L-BF18 T4 L



BF26 T4 D-BF38 T4 D  
BF26 T4 L-BF38 T4 L



BF50C 40-BF80C 40



B115 4-B180 4



B250 4-B400 4

### Resistive load control

Order code DC coil	DC coil Low consumption	IEC operating current Ith (AC1)			Maximum IEC power at ≤40°C (AC1)							UL/CSA details
		≤40°C	≤55°C	≤70°C	230V	400V	415V	440V	500V	690V	1000V	UL/CSA General (purpose) use
		[A]	[A]	[A]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[A]
11 BG09 T4 D ①	—	20	18	15 (≤60°C)	8	14	14	15	16	22	—	20
11 BGF09 T4 D ①	—	20	18	15 (≤60°C)	8	14	14	15	16	22	—	20
11 BGP09 T4 D ①	—	20	18	15 (≤60°C)	8	14 <sup>⑥</sup>	14 <sup>⑥</sup>	15 <sup>⑥</sup>	16 <sup>⑥</sup>	—	—	20
BF09 T4 D ② <sup>③</sup>	BF09 T4 L ② <sup>③</sup>	25	20	18	9.5	16	17	18	21	27	—	25
BF18 T4 D ② <sup>③</sup>	BF18 T4 L ② <sup>③</sup>	32	26	23	12	21	22	23	26	36	—	32
BF26 T4 D ② <sup>③</sup>	BF26 T4 L ② <sup>③</sup>	45	36	32	17	30	31	33	37	51	—	45
BF38 T4 D ② <sup>③</sup>	BF38 T4 L ② <sup>③</sup>	56 (60 <sup>④</sup> )	45 (48 <sup>④</sup> )	40 (42 <sup>④</sup> )	21	26	38	40	45	62	—	55
11 BF65C 40 ⑤	—	110	90	70	41	72	78	80	95	112	—	110
11 BF80C 40 ⑤	—	125	100	80	47	82	90	90	108	128	—	125
11 B115 4 00 ⑥ <sup>⑦</sup>	—	160	150	110	57	98	107	115	129	173	250	160
11 B145 4 00 ⑥ <sup>⑦</sup>	—	250	235	190	91	150	162	180	196	270	390	250
11 B180 4 00 ⑥ <sup>⑦</sup>	—	275	250	200	95	160	177	200	213	298	430	275
11 B250 4 00 ⑥ <sup>⑦</sup>	—	350	300	250	124	214	234	255	282	380	560	350
11 B310 4 00 ⑥ <sup>⑦</sup>	—	450	370	300	158	270	293	325	350	488	700	450
11 B400 4 00 ⑥ <sup>⑦</sup>	—	550	430	360	200	345	377	400	452	598	870	550
11 B500 4 00 ⑥ <sup>⑦</sup>	—	700	550	500	252	438	478	500	575	755	1100	700
11 B630 4 00 ⑥ <sup>⑦</sup>	—	800	640	540	288	500	545	580	655	860	1250	800
11 B630 1000 4 00 ⑥ <sup>⑦</sup>	—	1000	850	700	350	600	630	725	750	1000	1600	1000

① Complete order code with coil voltage digit.

The BF09-BF38D types already have a standard supplied built-in TVS (Transient Voltage Suppressor).

Standard voltages are as follows:

– DC 012 / 024 / 048 / 060 / 110 / 125 / 220VDC.

Example: 11 BG09 T4 D012 for mini-contactor BG09, four poles, with 12VDC coil.

② Low consumption version. Complete the order code with coil voltage digit.

The BF09-BF38L types already have a standard supplied built-in TVS (Transient Voltage Suppressor).

Standard voltages are as follows:

– DC 024 / 048V

Example: BF09 T4 L024 for contactor BF09, four poles, with 24VDC low-consumption coil.

③ Maximum combinations add-on blocks are page 2-19.

④ The coil of the contactor can be powered indifferently in AC or DC. Complete the order code only with the digit of the coil voltage.

Standard voltages are:

– AC/DC 24 / 48 / 60 / 110-125 indicate 110 / 220-240 indicate 220 / 380-415 indicate 380 / 440-480V indicate 440.

Example: 11 B145 00 110 for contactor B145, four poles, without auxiliary contacts and with 110-125VAC/DC coil.

The 24VAC/DC voltage is not possible for B500-B630 1000 contactors.

Other voltages available on request.

⑤ If predisposed for mechanical latch (G495), the order code becomes 11 B...4SL 00 ④.

If already fitted with mechanical latch (G495), the order code becomes 11 B...4L 00 ④ ⑤.

⑥ Indicate rated voltage of the mechanical latch, preceded by the letter C if in DC.

Standard voltages are:

– AC 50/60Hz 48 / 110-125 indicate 110 / 220-240 indicate 220 / 380-415V indicate 380

– DC 48 / 110-125 indicate 110 / 220-240V indicate 220.

Example: 11 B145L 00 110 C48 for contactor B145, four poles, without auxiliary contacts, with 110-125VAC/DC coil and mechanical latch powered at 48VDC.

⑦ G495 mechanical latch cannot be mounted.

⑧ Maximum voltage is limited at 300V for UL. For certified type up to 600V consult Customer Service for information; see contact details on inside front cover.

⑨ For use at this other current value, a 16mm<sup>2</sup> cable, headed with a fork terminal, must be used.



B500 4-B630 4



B630 1000 4

	UL/CSA Fuse class	Short circuit RMS sym. 600VAC	Type of terminal	Incorporated auxiliary contacts		Quantity per pkg	Weight
	Type / [A]	[kA] UL/CSA		NO	NC	n°	[kg]
	K5 / 30	5	Clamp-screw	—	—	10	0.220
	K5 / 30	5	Faston	—	—	10	0.220
	K5 / 30	5	Rear PCB solder pin	—	—	10	0.242
	RK5 / 60	5	Clamp-screw	—	—	1	0.498
	RK5 / 80	5	Clamp-screw	—	—	1	0.498
	RK5 / 100	5	Clamp-screw	—	—	1	0.665
	RK5 / 150	5	Clamp-screw	—	—	1	0.665
	RK5 / 225	5	Lug-clamp ①	—	—	1	2.035
	RK5 / 250	5	Lug-clamp ①	—	—	1	2.100
	RK5 / 500	10	Screw-nut	—	—	1	6.220
	RK5 / 500	10	Screw-nut	—	—	1	6.340
	RK5 / 500	10	Screw-nut	—	—	1	6.340
	L/800	18	Screw-nut	—	—	1	11.195
	L/800	18	Screw-nut	—	—	1	11.195
	L/800	18	Screw-nut	—	—	1	11.195
	L/1200 ⑩	18 ⑩	Screw-nut	—	—	1	20.910
	L/1200 ⑩	18 ⑩	Screw-nut	—	—	1	21.880
	L/1500 ⑩	18 ⑩	Screw-nut	—	—	1	25.600

⑩ No UL/CSA ratings; data given for indication and reference purposes only.

① IEC/EN 60947-1 designation: Pillar terminal.

### IEC utilisation current with poles in parallel

If the poles of the contactors are arranged in parallel, the operating current is the one indicated in the table multiplied by the **K** factor given below, which account for the unequal distribution of the current in the various poles.

To limit distribution inequality, it is advisable to use paralleling links (see pages 2-16, 2-21 and 2-26).

2 POLES in parallel: **K** = 1.6

3 POLES in parallel: **K** = 2.2

4 POLES in parallel: **K** = 2.8

### Certifications and compliance

Certifications obtained:

Type	UL Canada USA	UL USA	CSA	EAC	CCC	RINA
BG09 T4 D	●			●	●	
BGF09 T4 D	●			●	●	
BGP09 T4 D ⑩	●			●	●	
BF09 T4 D - BF09 T4 L	●		●	●	●	●
BF18 T4 D - BF18 T4 L	●		●	●	●	●
BF26 T4 D - BF26 T4 L	●		●	●	●	●
BF38 T4 D - BF38 T4 L	●		●	●	●	●
BF65 C 40	●		●	●	●	
BF80 C 40	●		●	●	●	
B115 4		●	●	●	●	
B145 4		●	●	●	●	
B180 4		●	●	●	●	
B250 4		●	●	●	●	
B310 4		●	●	●	●	
B400 4		●	●	●	●	
B500 4	●			●		
B630 4	●			●	●	●
B630 1000 4	●			●		

● Certified products.

UL - UL Listed, for USA and Canada (cULus File E93602) for BG...BF110 types indicated, as Motor Controllers – Contactors, except for BGP09... types which are UL Recognized, for USA and Canada (UL File E93602 – Component). Products having this type of marking are intended for use as components of complete workshop-assembled equipment.

BGP is UL rated up to 300V; for type with rating up to 600V, consult Customer Service for information – see contact details on inside front cover.

UL Listed for USA only (File E93602) for B115...B400 types indicated, as Motor Controllers – Contactors.

UL Listed for USA and Canada (cULus - File E172185) for B500 4... B630 1000 4 and B500 4SL... B630 4SL types as Industrial Control Switches.

CSA - BF09...BF95 and B115...B400 contactors are also CSA certified, for Canada only (File 54332).

In addition, BF12..., BF25..., BF38... and BF65... types are CSA certified as "Elevator Equipment" (File 54332, class 2411).

See technical characteristics on page 2-63 for BF12-BF38 and page 2-65 for BF65.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1, UL508, CSA C22.2 n° 14 for all types; UL 60947-1, UL 60947-4-1A, CSA C22.2 n° 60947-1, CSA C22.2 n° 60947-4-1 for B115 4... B630 1000 4.

Plastic materials are compliant with standards IEC/EN 60335; for all BF09...BF38 versions only, add suffix V260 to the standard product order code.

Example: BF09 T4 D024 V260 for BF09, four poles, 24VDC coil with compliant plastic materials).