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THREE-POLE CONTACTORS
- Ith ratings in AC1 duty at ≤40°C: 16 to 1600A
- Ie ratings in AC3 440V duty: 6 to 630A
- Power ratings in AC3 400V duty: 2.2 to 335kW
- AC, DC and DC low-consumption control coil.



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FOUR-POLE CONTACTORS
- Ith ratings in AC1 duty at ≤40°C: 20 to 1600A
- Power ratings in AC1 400V duty: 14 to 950kW
- AC, DC and DC low-consumption control coil.



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CONTACTORS FOR POWER FACTOR CORRECTION
- With limiting resistors included
- Power ratings at 400V: 7.5 to 60kvar
- AC control coil.



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FOUR-POLE CONTACTORS WITH 2NO+2NC MAIN POWER POLES
- Ith ratings in AC1 duty at ≤40°C: 20 to 60A
- AC, DC and DC low-consumption control coil.



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FOUR-POLE CONTACTORS WITH 4NC MAIN POWER POLES
- Ith ratings in AC1 duty at ≤40°C: 25 to 40A
- AC, DC and DC low-consumption control coil.



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CONTROL RELAYS
- AC, DC and DC low-consumption control coil
- Screw or Faston termination
- 4, 8 or 11 auxiliary contact composition.

- *Three-pole versions up to 630A in AC3 duty*
- *Four-pole versions up to 1600A in AC1 duty*
- *Versions for power factor correction up to 60kvar at 400VAC*
- *Four-pole versions with 2NO+2NC or 4NC main poles*
- *Low-consumption versions with DC control circuit for control relays and 9-38A contactors in AC3 duty*
- *Versions with AC or DC control*
- *Extensive choice of add-on blocks and accessories*
- *Certified by primary international authorities.*



PLANET - SWITCH

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Contactors		
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Orange

Lovato electric

3

BG series mini-contactors



- Three-pole mini-contactors, 6 to 12A in AC3 duty
- Four-pole mini-contactors, 20A in AC1 duty
- Versions with 2NO+2NC main power poles
- Highly conductive auxiliary contacts
- AC or DC auxiliary supply
- Low-consumption DC versions
- Screw, faston and rear PCB solder pin termination.

	3 poles			4 poles		
	Ie (AC3)	AC	DC	Ith (AC1)	AC	DC
BG06	6A	●	●	—	—	—
BG09	9A	●	●	20A	●	●
BGF09	9A	●	●	20A	●	●
BGP09	9A	●	●	20A	●	●
BG12	12A	●	●	—	—	—

BF series contactors



- Three-pole contactors, 9 to 110A in AC3 duty
- Four-pole contactors, 25 to 125A in AC1 duty
- Power factor correction contactors, 7.5 to 60kvar at 400V
- Versions with 2NO+2NC or 4NC main power poles
- Highly conductive auxiliary contacts
- AC or DC auxiliary supply
- Low-consumption versions for control relays and 9-38A contactors in AC3 duty.

	3 poles				4 poles			
	Ie (AC3)	AC	DC	DC❶	Ith (AC1)	AC	DC	DC❶
BF09	9A	●	●	●	25A	●	●	●
BF12	12A	●	●	●	28A	●	—	—
BF18	18A	●	●	●	32A	●	●	●
BF25	25A	●	●	●	—	—	—	—
BF26	26A	●	●	●	45A	●	●	●
BF32	32A	●	●	●	—	—	—	—
BF38	38A	●	●	●	56A	●	●	●
BF50	50A	●	●	—	90A	●	—	—
BF65	65A	●	●	—	110A	●	●	—
BF80	80A	●	●	—	125A	●	●	—
BF95	95A	●	●	—	—	—	—	—
BF110	110A	●	●	—	—	—	—	—

❶ Low-consumption version.

B series contactors



- Three-pole contactors, 110 to 630A in AC3 duty
- Four-pole contactors, 160 to 1600A in AC1 duty
- Irrelevant AC and DC auxiliary supply
- Screw termination.

	3 poles			4 poles		
	Ie (AC3)	AC	DC	Ith (AC1)	AC	DC
B115	110A	●	●	160A	●	●
B145	150A	●	●	250A	●	●
B180	185A	●	●	275A	●	●
B250	265A	●	●	350A	●	●
B310	320A	●	●	450A	●	●
B400	420A	●	●	550A	●	●
B500	520A	●	●	700A	●	●
B630	630A	●	●	800A	●	●
B630 1000	❶	●	●	1000A	●	●
B1250	❶	●	—	1250A	●	—
B1600	❶	●	—	1600A	●	—

❶ For AC1 duty only.

Simplicity

4-TERMINAL COIL

Connecting cables can be coupled to the coil both on the line and load ends of the contactor.



BUILT-IN SURGE SUPPRESSOR

The BF09 to BF38 contactors with standard voltage DC coils include a built-in surge suppressor.

WIDE OPERATING RANGE

BF...D contactors are equipped with a wide operating range coil and are particularly useful in applications subject to considerable voltage variations, such as in electric traction railway equipment.

LOW-CONSUMPTION FOR COILS

The BF...L contactors feature a 2.4W low-consumption. This characteristic widely allows their direct control by PLC outputs.

SIDE ADD-ON FOURTH POLE

For the 45A and 56A AC1 ratings, a side-mount fourth power pole can be snapped on the three-pole contactor.
This solution consents to optimise Inventory.



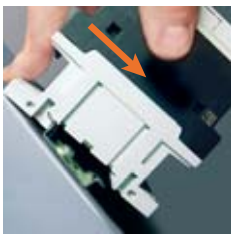
MECHANICAL INTERLOCK

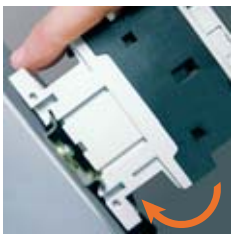
Size 1 contactors, 9 to 25A in AC3, can be mechanically and electrically interlocked with size 2 contactors, 26 to 38A AC3.
The BFX50 01 mechanical interlock comprises two built-in NC auxiliary contacts to make the electrical interlock as well.



35mm DIN RAIL MOUNTING AND FIXING

Contactor mounting on and removal from a 35mm DIN rail are tool less operations and are done by simply applying pressure on the contactor.





45mm WIDE CONTACTORS

Ratings up to 38A - 18.5kW in AC3, merely 45mm wide: exceptional benefit for electric panel dimensions.

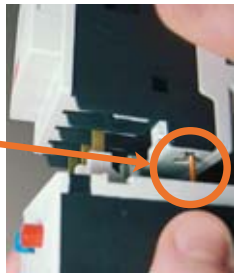
STARTER ASSEMBLY

The assembly and wiring of electromechanical starters is extremely fast and reliable. Versatile electrical and mechanical connecting systems provide easy and foolproof assembly of compact starters.



EFFORTLESS THERMAL OVERLOAD RELAY LINK

During the connection of the thermal overload relay to the contactor, its auxiliary contact is simultaneously linked to the contactor coil terminal rigid connector.
The complete overload relay fixing is obtained with one single operation and without other connections.



TERMINAL ADAPTABILITY

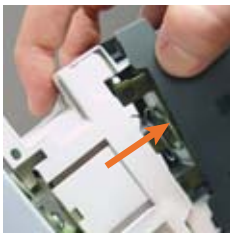
Terminals are suitable for every type of cable: flexible, rigid, according to AWG standards and interlocked with any type of cable terminal.
Power pole, auxiliary and coil screws can be tightened using one single type of screwdriver.

SNAP-ON INSTALLATION

Mounting and removal of the add-on auxiliary contacts and accessories, along with BF09 to BF38 AC contactor coil replacement are quick and easy operations and are done with no tools.







Safety

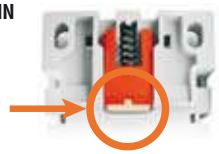
FRONT PROTECTION COVER FOR BREAKER - CONTACTOR CONNECTIONS

The front cover, fixed between breaker and contactor, provide protection to the connections.



RUBBER PAD INSERT FOR NO DIN RAIL SLIDING

A rubber insert prevents the contactors from sliding on the 35mm DIN rail even when out of tolerance or mounted vertically.



CONNECTION SECURITY - IP20

The ease of terminal access and space is combined with IP20 finger safety, to prevent touching of live parts.



Contactors

Three-pole contactors with AC control circuit



BG06 A-BG12 A



BF09 A-BF25 A



BF26 A-BF38 A



BF50-BF110



B115-B180



B250-B400

Three-phase motor control in AC3 duty

Order code	Operating current Ith (AC1)			Ie (AC3)	Maximum power at ≤55°C (AC3)						
AC coil	≤40°C	≤55°C	≤70°C	≤440V at ≤55°C	230V	400V	415V	440V	500V	690V	1000V
	[A]	[A]	[A]	[A]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
11 BG06 01 A❶	16	14	12 (≤60°C)	6	1.5	2.2	2.4	2.5	3	3	—
11 BG06 10 A❶											
11 BG09 01 A❶	20	18	15 (≤60°C)	9	2.2	4	4.3	4.5	5	5	—
11 BG09 10 A❶											
11 BGF09 01 A❶	20	18	15 (≤60°C)	9	2.2	4	4.3	4.5	5	5	—
11 BGF09 10 A❶											
11 BGP09 01 A❶	20	18	15 (≤60°C)	9	2.2	4❼	4.3❼	4.5❼	5❼	—	—
11 BGP09 10 A❶											
11 BG12 01 A❶	20	18	15 (≤60°C)	12	3.2	5.7	6.2	5.5	5	5	—
11 BG12 10 A❶											
BF09 01 A❶	25	20	18	9	2.2	4.2	4.5	4.8	5.5	7.5	—
BF09 10 A❶											
BF12 01 A❶	28	23	20	12	3.2	5.7	6.2	6.2	7.5	10	—
BF12 10 A❶											
BF18 01 A❶	32	26	23	18	4	7.5	9	9	10	10	—
BF18 10 A❶											
BF25 01 A❶	32	26	23	25	7	12.5	13.4	13.4	15	11	—
BF25 10 A❶											
BF26 00 A❶	45	36	32	26	7.3	13	14	14	15.6	18.5	—
BF32 00 A❶	56	45	40	32	8.8	16	17	17	20	22	—
BF38 00 A❶	56 (60❿)	45 (48❿)	40 (42❿)	38	11	18.5	18.5	18.5	20	22	—
11 BF50 00❶	90	80	65	50	14.3	25	27.2	27.2	33.2	43.5	25
11 BF65 00❶	110	90	70	65	18.5	33	36	36	45.3	59.7	30
11 BF80 00❶	125	100	80	80	23	41	46	46	56	74	37
11 BF95 00❶	125	100	80	95	27.6	50	55	55	56	74	45
11 BF110 00❶	125	100	80	110	33	61	66	70	59	80	45
11 B115 00❷❸	160	150	110	110	33	61	66	70	80	100	63
11 B145 00❷❸	250	235	190	150	46	80	88	93	100	120	75
11 B180 00❷❸	275	250	200	185	57	100	108	115	123	144	103
11 B250 00❷❸	350	300	250	265	83	140	155	164	176	212	156
11 B310 00❷❺	450	370	300	320	100	170	188	200	213	256	180
11 B400 00❷❸	550	430	360	420	130	225	247	263	271	352	208
11 B500 00❷❸	700	550	500	520	156	290	306	328	367	416	312
11 B630 00❷❸	800	640	540	630	198	335	368	368	368	440	368
11 B630 1000 00❷❺	100	850	700	—	For AC1 duty only, see page 3-8.						
11 B1250 24❺❻	1250	1050	880	—	For AC1 duty only, see page 3-8.						
11 B1600 24❺❻	1600	1360	1120	—	For AC1 duty only, see page 3-8.						

❶ Complete order code with coil voltage digit or with voltage digit followed by 60 (if 60Hz).
Standard voltages are as follows:
– AC 50/60Hz 024 / 048 / 110 / 230 / 400V
– AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).
Example: 11 BG06 10 A230 for mini-contactor BG06, three poles, with one NO contact and 230VAC 50/60Hz coil.
11 BG06 10 A460 60 for mini-contactor BG06 with one NO contact and 460VAC 60Hz coil.

❷ 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, three 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.

❸ If predisposed for mechanical latch (G495), the order code becomes 11 B…SL.00 ❷
If already fitted with mechanical latch (G495), the order code becomes 11 B…L.00 ❷ ❹.

❹ Indicate rated voltage of the mechanical latch, preceded by the letter C if in DC. Available 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 00 110 220 for contactor B145 without auxiliary contacts, with 110-125VAC/DC coil and mechanical latch powered at 220-240VAC.

❺ G495 mechanical latch cannot be mounted.

❻ Complete the order code with the digit of the coil voltage. For 110-125VAC (50/60Hz) indicate 110 or 220-240VAC (50/60Hz) indicate 220.
Example: 11 B1250 24 110 for contactor B1250, three poles, with 2NO+4NC auxiliary contacts and 110-125VAC 50/60Hz coil.

❼ Maximum voltage is limited 300V for UL. For certified type up to 600V, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

❽ For voltages 024 / 230 / 400VAC 50-60Hz: 10 pieces/package.
For all other voltages: 1 piece/package.

❾ Highly conductive auxiliary contact.

❿ For use at this other current value, a 16mm² cable, headed with a fork terminal, must be used.

Add-on blocks / Accessories pages 3-16 to 27
Spare parts pages 3-28 to 31
Dimensions pages D-16 to 23
Wiring diagrams pages W-3
Technical characteristics pages TC-8 to 29

Three-pole contactors with AC control circuit



B500-B630



B630 1000



B1250-B1600

	Type of terminal	Incorporated auxiliary contacts		Quantity per pkg	Weight
		NO	NC	n°	[kg]
	Clamp-screw	—	1❾	10	0.170
		1❾	—	10	0.170
	Clamp-screw	—	1❾	10	0.170
		1❾	—	10	0.170
	Faston	—	1❾	10	0.160
		1❾	—	10	0.160
	Rear PCB solder pin	—	1❾	10	0.170
		1❾	—	10	0.170
	Clamp-screw	—	1❾	10	0.170
		1❾	—	10	0.170
	Clamp-screw	—	1❾	1	0.340
		1❾	—	❽	0.340
	Clamp-screw	—	1❾	1	0.340
		1❾	—	❽	0.340
	Clamp-screw	—	1❾	1	0.340
		1❾	—	❽	0.340
	Clamp-screw	—	1❾	1	0.340
		1❾	—	❽	0.340
	Clamp-screw	—	—	1	0.400
	Clamp-screw	—	—	1	0.400
	Clamp-screw	—	—	1	0.400
	Lug-clamp	—	—	1	1.230
	Lug-clamp	—	—	1	1.230
	Lug-clamp	—	—	1	1.280
	Lug-clamp	—	—	1	1.280
	Lug-clamp	—	—	1	1.280
	Screw-nut	—	—	1	5.100
	Screw-nut	—	—	1	5.220
	Screw-nut	—	—	1	5.220
	Screw-nut	—	—	1	9.100
	Screw-nut	—	—	1	9.250
	Screw-nut	—	—	1	9.250
	Screw-nut	—	—	1	17.600
	Screw-nut	—	—	1	17.900
	Screw-nut	—	—	1	21.000
	Screw-nut	2	4	1	48.000
	Screw-nut	2	4	1	50.000

Certifications and compliance

Certifications obtained:

Type	cULus	UL	CSA	GOST	CCC	Register of shipping RINA	Register of shipping LROS
BG06 A	●			●	●		
BG09 A	●			●	●		
BG12 A	●			●	●		
BGF09 A	●			●	●		
BGP... A❼	●			●	●		
BF09 A	●		●	●	●		
BF12 A	●		●⓫	●	●		
BF18 A	●		●	●	●		
BF25 A	●		●⓫	●	●		
BF26 A	●		●	●	●		
BF32 A	●		●	●	●		
BF38 A	●		●⓫	●	●		
BF50	●		●	●	●	●	●
BF65	●		●⓫	●	●	●	●
BF80	●		●	●	●	●	●
BF95	●		●	●	●	●	●
BF110	●			●	●		
B115		●	●	●	●	●	●
B145		●	●	●	●	●	●
B180		●	●	●	●	●	●
B250		●	●	●	●	●	●
B310		●	●	●	●	●	●
B400		●	●	●	●	●	●
B500				●			
B630				●			
B630 1000				●			
B1250				●			
B1600				●			

● Certified products.

cULus "Recognized". 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, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

⓫ This contactor is CSA certified as elevator equipment.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Add-on blocks / Accessories pages 3-16 to 27

Spare parts pages 3-28 to 31

Dimensions pages D-16 to 23

Wiring diagrams pages W-3

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Contactors

Three-pole contactors with DC control circuit



BG06 D-BG12 D
BG09 L



BF09 D-BF25 D
BF09 L-BF25 L



BF26 D-BF38 D
BF26 L-BF38 L



BF50 C-BF110 C



B115-B180



B250-B400

Three-phase motor control in AC3 duty

Order code DC coil	DC coil Low consumption	Operating current Ith (AC1) ≤40°C	≤55°C	≤70°C	Ie (AC3) ≤440V at ≤55°C	Maximum power at ≤55°C (AC3) 230V	400V	415V	440V	500V	690V	1000V
		[A]	[A]	[A]	[A]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
11 BG06 01 D❶	—	16	14	12 (≤60°C)	6	1.5	2.2	2.4	2.5	3	3	—
11 BG06 10 D❶	—											
11 BG09 01 D❶	**11 BG09 01 L❷**	20	18	15 (≤60°C)	9	2.2	4	4.3	4.5	5	5	—
11 BG09 10 D❶	**11 BG09 10 L❷**											
11 BGF09 01 D❶	**11 BGF09 01 L❷**	20	18	15 (≤60°C)	9	2.2	4	4.3	4.5	5	5	—
11 BGF09 10 D❶	**11 BGF09 10 L❷**											
11 BGP09 01 D❶	—	20	18	15 (≤60°C)	9	2.2	4❽	4.3❽	4.5❽	5❽	—	—
11 BGP09 10 D❶	—											
11 BG12 01 D❶	—	20	18	15 (≤60°C)	12	3.2	5.7	6.2	5.5	5	5	—
11 BG12 10 D❶	—											
BF09 01 D❶❸	**BF09 01 L❷❸**	25	20	18	9	2.2	4.2	4.5	4.8	5.5	7.5	—
BF09 10 D❶❸	**BF09 10 L❷❸**											
BF12 01 D❶❸	**BF12 01 L❷❸**	28	23	20	12	3.2	5.7	6.2	6.2	7.5	10	—
BF12 10 D❶❸	**BF12 10 L❷❸**											
BF18 01 D❶❸	**BF18 01 L❷❸**	32	26	23	18	4	7.5	9	9	10	10	—
BF18 10 D❶❸	**BF18 10 L❷❸**											
BF25 01 D❶❸	**BF25 01 L❷❸**	32	26	23	25	7	12.5	13.4	13.4	15	11	—
BF25 10 D❶❸	**BF25 10 L❷❸**											
BF26 00 D❶❸	**BF26 00 L❷❸**	45	36	32	26	7.3	13	14	14	15.6	18.5	—
BF32 00 D❶❸	**BF32 00 L❷❸**	56	45	40	32	8.8	16	17	17	20	22	—
BF38 00 D❶❸	**BF38 00 L❷❸**	56 (60❿)	45 (48❿)	40 (42❿)	38	11	18.5	18.5	18.5	20	22	—
11 BF50 C 00❶❸	—	90	80	65	50	14.3	25	27.2	27.2	33.2	43.5	25
11 BF65 C 00❶❸	—	110	90	70	65	18.5	33	36	36	45.3	59.7	30
11 BF80 C 00❶❸	—	125	100	80	80	23	41	46	46	56	74	37
11 BF95 C 00❶❸	—	125	100	80	95	27.6	50	55	55	56	74	45
11 BF110 C 00❶❸	—	125	100	80	110	33	61	66	70	59	80	45
11 B115 00❹❺	—	160	150	110	110	33	61	66	70	80	100	63
11 B145 00❹❺	—	250	235	190	150	46	80	88	93	100	120	75
11 B180 00❹❺	—	275	250	200	185	57	100	108	115	123	144	103
11 B250 00❹❺	—	350	300	250	265	83	140	155	164	176	212	156
11 B310 00❹❼	—	450	370	300	320	100	170	188	200	213	256	180
11 B400 00❹❺	—	550	430	360	420	130	225	247	263	271	352	208
11 B500 00❹❺	—	700	550	500	520	156	290	306	328	367	416	312
11 B630 00❹❺	—	800	640	540	630	198	335	368	368	368	440	368
11 B630 1000 00❹❼	—	1000	850	700	—	For AC1 duty only, see page 3-8.						

❶ Complete order code with coil voltage digit.
Standard voltages are as follows:
– DC 012 / 024 / 048 / 060 / 110 / 125 / 220V.
Example: 11 BG06 10 D012 for mini-contactor BG06, three poles, with one NO contact and 12VDC coil.

❷ Low-consumption version.
No add-on auxiliary contacts or mechanical interlock can be mounted on BG... type contactors.
Complete order code with coil voltage digit.
Standard voltages are as follows:
– DC 024 / 048V.
Example: 11 BG09 01 L024 for mini-contactor BG09, three poles, with one NC contact and 24VDC low-consumption coil.

❸ Maximum combinations of add-on blocks are given on page 3-19.

❹ 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, three 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.

❺ If predisposed for mechanical latch (G495), the order code becomes 11 B…SL.00 ❹.
If already fitted with mechanical latch (G495), the order code becomes 11 B…L.00 ❹ ❻.

❻ 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, three poles, without auxiliary contacts, with 110-125VAC/DC coil and mechanical latch powered at 48VDC.

❼ G495 mechanical latch cannot be mounted.

❽ Maximum voltage is limited 300V for UL. For certified type up to 600V, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

❾ Highly conductive auxiliary contact.

❿ For use at this other current value, a 16mm² cable, headed with a fork terminal, must be used.

Add-on blocks / Accessories pages 3-16 to 27
Spare parts pages 3-28 to 31
Dimensions pages D-16 to 23
Wiring diagrams pages W-3
Technical characteristics pages TC-8 to 29



B500-B630



B630 1000

	Type of terminal	Incorporated auxiliary contacts		Quantity per pkg	Weight
		NO	NC	n°	[kg]
	Clamp-screw	—	1⓫	10	0.175
		1⓫	—	10	0.175
	Clamp-screw	—	1⓫	10	0.175
		1⓫	—	10	0.175
	Faston	—	1⓫	10	0.165
		1⓫	—	10	0.165
	Rear PCB solder pin	—	1⓫	10	0.175
		1⓫	—	10	0.175
	Clamp-screw	—	1⓫	10	0.175
		1⓫	—	10	0.175
	Clamp-screw	—	1⓫	10	0.470
		1	—	10	0.470
	Clamp-screw	—	1⓫	10	0.470
		1	—	10	0.470
	Clamp-screw	—	1⓫	5	0.470
		1	—	5	0.470
	Clamp-screw	—	1⓫	5	0.470
		1	—	5	0.470
	Clamp-screw	—	—	1	0.540
	Clamp-screw	—	—	1	0.540
	Clamp-screw	—	—	1	0.540
	Lug-clamp	—	—	1	1.690
	Lug-clamp	—	—	1	1.690
	Lug-clamp	—	—	1	1.730
	Lug-clamp	—	—	1	1.730
	Lug-clamp	—	—	1	1.730
	Screw-nut	—	—	1	5.100
	Screw-nut	—	—	1	5.220
	Screw-nut	—	—	1	5.220
	Screw-nut	—	—	1	9.100
	Screw-nut	—	—	1	9.250
	Screw-nut	—	—	1	9.250
	Screw-nut	—	—	1	17.600
	Screw-nut	—	—	1	17.900
	Screw-nut	—	—	1	21.000

Certifications and compliance

Certifications obtained:

Type	cULus	UL	CSA	GOST	CCC	Register of shipping RINA	Register of shipping LROS
BG06 D	●			●	●		
BG09 D	●			●	●		
BG12 D	●			●	●		
BGF09 D	●			●	●		
BGP09 D⓼	●			●	●		
BF09 D - BF09 L	●		●	●	●		
BF12 D - BF12 L	●		●⓫	●	●		
BF18 D - BF18 L	●		●	●	●		
BF25 D - BF25 L	●		●⓫	●	●		
BF26 D - BF26 L	●		●	●	●		
BF32 D - BF32 L	●		●	●	●		
BF38 D - BF38 L	●		●⓫	●	●		
BF50 C	●		●	●	●		
BF65 C	●		●⓫	●	●		
BF80 C	●		●	●	●		
BF95 C	●		●	●	●		
BF110 C	●			●	●		
B115		●	●	●	●	●	●
B145		●	●	●	●	●	●
B180		●	●	●	●	●	●
B250		●	●	●	●	●	●
B310		●	●	●	●	●	●
B400		●	●	●	●	●	●
B500				●			
B630				●			
B630 1000				●			

● Certified products.

cULus "Recognized". 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 up to 600V, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

⓫ This contactor is CSA certified as elevator equipment.

Conformi a: IEC/EN 60947-1, IEC/EN 60947-4-1.

Add-on blocks / Accessories pages 3-16 to 27

Spare parts pages 3-28 to 31

Dimensions pages D-16 to 23

Wiring diagrams page W-3

Technical characteristics pages TC-8 to 29

Contactors

Four-pole contactors with AC control circuit


BG09 T4 A


BF09 A T4A-BF18 T4 A


BF26 T4 A-BF38 T4 A


BF65 40 - BF80 40


B115 4-B180 4


B250 4-B400 4

Resistive load control in AC1 duty

Order code	Operating current Ith (AC1)			Maximum power at ≤40°C (AC1)						
AC coil	≤40°C	≤55°C	≤70°C	230V	400V	415V	440V	500V	690V	1000V
	[A]	[A]	[A]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
11 BG09 T4A❶	20	18	15 (≤60°C)	8	14	14	15	16	22	—
11 BGF09 T4A❶	20	18	15 (≤60°C)	8	14	14	15	16	22	—
11 BGP09 T4A❶	20	18	15 (≤60°C)	8	14❼	14❼	15❼	16❼	—	—
BF09 T4A❶	25	20	18	9.5	16	17	18	21	27	—
BF12 T4A❶	28	23	20	10	18	19	20	23	32	—
BF18 T4A❶	32	26	23	12	21	22	23	26	36	—
BF26 T4A❶❽	45	36	32	17	30	31	33	37	51	—
BF38 T4A❶❽	56 (60❾)	45 (48❾)	40 (42❾)	21	36	38	40	45	62	—
11 BF50 40❶	90	80	65	34	59	64	65	74	98	—
11 BF65 40❶	110	90	70	41	72	78	80	95	112	—
11 BF80 40❶	125	100	80	47	82	90	90	108	128	—
11 B115 4 00❷❸	160	150	110	57	98	107	115	129	173	250
11 B145 4 00❷❸	250	235	190	91	150	162	180	196	270	390
11 B180 4 00❷❸	275	250	200	95	160	177	200	213	298	430
11 B250 4 00❷❸	350	300	250	124	214	234	255	282	380	560
11 B310 4 00❷❺	450	370	300	158	270	293	325	350	488	700
11 B400 4 00❷❸	550	430	360	200	345	377	400	452	598	870
11 B500 4 00❷❸	700	550	500	252	438	478	500	575	755	1100
11 B630 4 00❷❸	800	640	540	288	500	545	580	655	860	1250
11 B630 1000 4 00❷❺	1000	850	700	350	600	630	725	750	1000	1600
11 B1250 4 24❺❻	1250	1050	880	480	830	900	905	1100	1450	2000
11 B1600 4 24❺❻	1600	1360	1120	550	950	1000	1160	1200	1650	2500

❶ Complete order code with coil voltage digit or voltage digit followed by 60 if 60Hz.
Standard voltages are as follows:
– AC 50/60Hz 024 / 048 / 110 / 230 / 400V
– AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).
Example: 11 BG09 T4 A230 for mini-contactor BG09, four poles, with 230VAC 50/60Hz coil.
11 BG09 T4 A460 60 for mini-contactor BG09, four poles, with 460VAC 60Hz coil.

❷ 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 4 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.

❸ If predisposed for mechanical latch (G495), the order code becomes 11 B…4SL 00 ❷.
If already fitted with mechanical latch (G495), the order code becomes 11 B…4L.00 ❷ ❹.

❹ 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 B145 4L 00 110 C220 for contactor B145, four poles, without auxiliary contacts, with 110-125VAC/DC coil and mechanical latch powered at 220-240VDC.

❺ G495 mechanical latch cannot be mounted.

❻ Complete the order code with the digit of the coil voltage. For 110-125VAC 50/60 Hz indicate 110 or 220-240VDC 50/60 Hz indicate 220.
Example: 11 B1250 4 24 110 for contactor B1250, four poles, with 2NO+4NC auxiliary contacts and 110-125VAC/DC 50/60Hz coil.

❼ Maximum voltage is limited 300V for UL. For certified type up to 600V. contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

❽ Whenever the BF26 T4 or BF38 T4 types need to be mechanically interlocked with either the BFX50 00 or BFX50 01, the add-on fourth pole of one of the contactors needs to be removed from the right side and fitted on the left side.

❾ For use at this other current value, a 16mm^2 cable, headed with a fork terminal, must be used.

Add-on blocks / Accessories pages 3-16 to 27
Spare parts pages 3-28 to 31
Dimensions pages D-16 to 23
Wiring diagrams pages W-3
Technical characteristics pages TC-8 to 29

Four-pole contactors with AC control circuit



B500 4-B630 4



B630 1000 4



B1250-B1600 4

	Type of terminal	Incorporated auxiliary contacts		Quantity per pkg	Weight
		NO	NC	n°	[kg]
	Clamp-screw	none	none	10	0.170
	Faston	none	none	10	0.160
	Rear PCB solder pin	none	none	10	0.170
	Clamp-screw	none	none	1	0.340
	Clamp-screw	none	none	1	0.340
	Clamp-screw	none	none	1	0.340
	Clamp-screw	none	none	1	0.510
	Clamp-screw	none	none	1	0.510
	Lug-clamp	none	none	1	1.430
	Lug-clamp	none	none	1	1.430
	Lug-clamp	none	none	1	1.470
	Screw-nut	none	none	1	5.960
	Screw-nut	none	none	1	6.100
	Screw-nut	none	none	1	6.100
	Screw-nut	none	none	1	10.600
	Screw-nut	none	none	1	10.800
	Screw-nut	none	none	1	10.800
	Screw-nut	none	none	1	20.800
	Screw-nut	none	none	1	21.500
	Screw-nut	none	none	1	25.620
	Screw-nut	2	4	1	57.000
	Screw-nut	2	4	1	59.000

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 3-16, 3-21 and 3-26).

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	cULus	UL	CSA	GOST	CCC
BG09 T4 A	●			●	●
BGF09 T4 A	●			●	●
BGP09 T4 A❼	c RU us			●	●
BF09 T4 A	●		●	●	●
BF12 T4 A	●		●⓾	●	●
BF18 T4 A	●		●	●	●
BF26 T4 A	●		●⓾	●	●
BF38 T4 A	●		●⓾	●	●
BF50 40	●		●	●	●
BF65 40	●		●⓾	●	●
BF80 40	●		●	●	●
B115 4		●	●	●	●
B145 4		●	●	●	●
B180 4		●	●	●	●
B250 4		●	●	●	●
B310 4		●	●	●	●
B400 4		●	●	●	●
B500 4				●	
B630 4				●	
B630 1000 4				●	
B1250 4				●	
B1600 4				●	

● Certified products.

c RU us "Recognized". 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 up to 600V, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

⓾ This contactor is CSA certified as elevator equipment.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Add-on blocks / Accessories pages 3-16 to 27

Spare parts pages 3-28 and 31

Dimensions pages D-16 to 23

Wiring diagrams page W-3

Technical characteristics pages TC-8 to 29

Contactors

Four-pole contactors with DC control circuit



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 in AC1 duty

Order code DC coil	DC coil Low consumption	Operating current Ith (AC1) ≤40°C	≤55°C	≤70°C	Maximum power at ≤40°C (AC1) 230V	400V	415V	440V	500V	690V	1000V
		[A]	[A]	[A]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
11 BG09 T4 D❶	—	20	18	15 (≤60°C)	8	14	14	15	16	22	—
11 BGF09 T4 D❶	—	20	18	15 (≤60°C)	8	14	14	15	16	22	—
11 BGP09 T4 D❶	—	20	18	15 (≤60°C)	8	14❽	14❽	15❽	16❽	—	—
BF09 T4 D❶❸	**BF09 T4 L❷❸**	25	20	18	9.5	16	17	18	21	27	—
BF18 T4 D❶❸	**BF18 T4 L❷❸**	32	26	23	12	21	22	23	26	36	—
BF26 T4 D❶❸	**BF26 T4 L❷❸**	45	36	32	17	30	31	33	37	51	—
BF38 T4 D❶❸	**BF38 T4 L❷❸**	56 (60❾)	45 (48❾)	40 (42❾)	21	26	38	40	45	62	—
11 BF65C 40❶	—	110	90	70	41	72	78	80	95	112	—
11 BF80C 40❶	—	125	100	80	47	82	90	90	108	128	—
11 B115 4 00❹❺	—	160	150	110	57	98	107	115	129	173	250
11 B145 4 00❹❺	—	250	235	190	91	150	162	180	196	270	390
11 B180 4 00❹❺	—	275	250	200	95	160	177	200	213	298	430
11 B250 4 00❹❺	—	350	300	250	124	214	234	255	282	380	560
11 B310 4 00❹❼	—	450	370	300	158	270	293	325	350	488	700
11 B400 4 00❹❺	—	550	430	360	200	345	377	400	452	598	870
11 B500 4 00❹❺	—	700	550	500	252	438	478	500	575	755	1100
11 B630 4 00❹❺	—	800	640	540	288	500	545	580	655	860	1250
11 B630 1000 4 00❹❼	—	1000	850	700	350	600	630	725	750	1000	1600

❶ Complete order code with coil voltage digit.
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.

❷ Low consumption version. Complete the order code with coil voltage digit.
Standard voltages are as follows:
– DC 024 / 048V
Example: BF09 T4 L024 for contactor BF09, four poles, with 24VDC low-consumption coil.

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

❹ 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.

❺ If predisposed for mechanical latch (G495), the order code becomes 11 B…4SL 00 ❹.
If already fitted with mechanical latch (G495), the order code becomes 11 B…4L.00 ❹ ❻.

❻ 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.

❼ G495 mechanical latch cannot be mounted.

❽ Maximum voltage is limited 300V for UL. For certified type up to 600V contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

❾ For use at this other current value, a 16mm² cable, headed with a fork terminal, must be used.

Add-on blocks / Accessories pages 3-16 to 26
Spare parts pages 3-29 to 31
Dimensions pages D-16 to 23
Wiring diagrams pages W-3
Technical characteristics pages TC-8 to 29

Four-pole contactors with DC control circuit



B500 4-B630 4



B630 1000 4

	Type of terminal	Incorporated auxiliary contacts		Quantity per pkg	Weight
		NO	NC	n°	[kg]
	Clamp-screw	—	—	10	0.175
	Faston	—	—	10	0.165
	Rear PCB solder pin	—	—	10	0.175
	Clamp-screw	—	—	1	0.470
	Clamp-screw	—	—	1	0.470
	Clamp-screw	—	—	1	0.625
	Clamp-screw	—	—	1	0.625
	Lug-clamp	—	—	1	1.940
	Lug-clamp	—	—	1	1.950
	Screw-nut	—	—	1	5.960
	Screw-nut	—	—	1	6.100
	Screw-nut	—	—	1	6.100
	Screw-nut	—	—	1	10.600
	Screw-nut	—	—	1	10.800
	Screw-nut	—	—	1	10.800
	Screw-nut	—	—	1	20.800
	Screw-nut	—	—	1	21.500
	Screw-nut	—	—	1	25.620

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 3-16, 3-21 and 3-26).

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	cULus	UL	CSA	GOST	CCC
BG09 T4 D	●			●	●
BGF09 T4 D	●			●	●
BGP09 T4 D❼	c UL us			●	●
BF09 T4 D - BF09 T4 L	●		●	●	●
BF18 T4 D - BF18 T4 L	●		●⓾	●	●
BF26 T4 D - BF26 T4 L	●		●⓾	●	●
BF38 T4 D - BF38 T4 L	●		●⓾	●	●
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.

c UL us "Recognized". 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 up to 600V, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

⓾ This contactor is CSA certified as elevator equipment.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Add-on blocks / Accessories pages 3-16 to 27
Spare parts pages 3-29 to 31
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Wiring diagrams pages W-3
Technical characteristics pages TC-8 to 29

Contactors for power factor correction with AC control circuit

BFK contactors (including limiting resistors)



BFK...

Order code	Maximum power at ≤50°C (AC-6b) ❶ 240V [kvar]	400V [kvar]	440V 480V [kvar]	690V [kvar]	❷ NO	Qty per pkg n°	Wt [kg]
AC COIL.							
BFK09 10A❸	4.5	7.5	9	10	1	10	0.413
BFK12 10A❸	7	12.5	14	16	1	10	0.413
BFK18 10A❸	9	15	17	20	1	10	0.413
BFK26 00A❸	11	20	22	22	–	10	0.472
BFK32 00A❸	14	25	27.5	30	–	10	0.472
BFK38 00 A❸	17	30	33	36	–	10	0.472
11 BF50K 00❸	22	38	41	46	–	5	1.440
11 BF65K 00❸	26	45	50	56	–	5	1.470
11 BF70K 00❸	30	50	56	65	–	5	1.470
11 BF80K 00❸	34	60	65	70	–	5	1.470

❶ Consult our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com) for the use of contactors to switch with delta connection.
❷ One NO auxiliary contact incorporated.
❸ Complete order code with coil voltage digit or with voltage digit followed by 60 if 60Hz.
Standard voltages are:
– AC 50/60Hz 024 / 048 / 110 / 230 / 400VAC
– AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).
Example: BFK09 10 A230 for contactor BFK09 with one NO contact and 230VAC 50/60Hz coil.
BFK09 10 A460 60 for contactor BFK09 with one NO contact and 460VAC 60Hz coil.

Operational characteristics

Type	Rated operational current [A]	Protection fuse gG [A]
BFK09	12	16
BFK12	18	25
BFK18	23	40
BFK26	30	40
BFK32	36	63
BF38K	43	63
BF50K	58	80
BF65K	70	100
BF70K	75	125
BF80K	90	125

Ambient operating temperature: ≤50°C. For ambient temperatures higher than 50°C and up to 70°C, the maximum operating power values indicated in the table must be reduced by a percentage equal to the difference between the operating ambient temperature and 50°C.
E.g.: Using a BFK26 00 contactor at the ambient temperature of 60°C, the maximum operating power (at 400V) of the contactor will be equal to 20kvar – 10% = 18kvar.
Operating cycle: ≤120 cycles/h
Electrical life: ≥200,000 cycles.

Add-on auxiliary contacts
The following contact blocks, can be fitted on the BFK contactors: BFX12..., G418..., G481..., G482... and G218.

Certifications and compliance
Certification obtained: cULus, GOST and CCC.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Kits to assemble BFK contactors



11 G46...

Order code	For contactor	Qty per pkg n°	Wt [kg]
11 G460	BF09 10A - BF12 10A - BF18 10A - BF26 00A - BF32 00A - BF38 00A	10	0.072
11 G464	BF50 00 - BF65 00 - BF80 00	10	0.080

To optimise contactor stock management, a kit is available to transform normal three-pole contactors into BFK types for power factor correction. The table to the left indicates which kits to purchase depending on the standard contactor in stock.

Add-on blocks / Accessories pages 3-18 to 25
Spare parts pages 3-28 to 31
Dimensions page D-23
Wiring diagrams page W-3
Technical characteristics page TC-17

Four-pole contactors with control circuit: AC and DC

Mini-contactor four power poles, 2 NO and 2 NC BG series



11 BG09 T2...

Order code	Rated conventional free air thermal current Ith ≤40°C	≤55°C	≤60°C	Qty per pkg	Wt
	[A]	[A]	[A]	n°	[kg]
AC COIL. Terminals: clamp screw.					
11 BG09 T2 A❶	20	18	15	1	0.170
DC COIL. Terminals: clamp screw.					
11 BG09 T2 D❷	20	18	15	1	0.175

Operational characteristics

Type	Protection fuse gG	Conductor section
	[A]	[mm²]
BG09...T2	20	0.75-2.5

NOTE: No coil change or replacement is possible.

Certifications and compliance
Certifications obtained: cULus, GOST and CCC.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Contactors four power poles, 2 NO and 2 NC BF series



BF09 T2...

Order code	Rated conventional free air thermal current Ith ≤40°C	≤55°C	≤60°C	Qty per pkg	Wt
	[A]	[A]	[A]	n°	[kg]
AC COIL. Terminals: clamp screw.					
BF09 T2 A❶	25	20	18	1	0.340
BF18 T2 A❶	32	26	23	1	0.340
BF26 T2 A❶	45	36	32	1	0.420
BF38 T2 A❶	56 (60❺)	45 (48❺)	40 (42❺)	1	0.420
DC COIL. Terminals: clamp screw.					
new **BF18 T2 D❷❹**	32	26	23	1	0.470
BF26 T2 D❷❹	45	36	32	1	0.540
BF38 T2 D❷❹	56 (60❺)	45 (48❺)	40 (42❺)	1	0.540
DC COIL. Low consumption (2.4W). Terminals: clamp screw.					
new **BF18 T2 L❸❹**	32	26	23	1	0.470
BF26 T2 L❸❹	45	36	32	1	0.540
BF38 T2 L❸❹	56 (60❺)	45 (48❺)	40 (42❺)	1	0.540

Operational characteristics

Type	Protection fuse gG	Conductor section
	[A]	[mm²]
BF09 T2	32	1-6
BF18 T2	40	1-6
BF26 T2	50	1.5-10
BF38 T2	80	215-16

Certifications and compliance
Certifications obtained: cULus, GOST, CCC and CSA.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

Contactors four power poles, 4 NC BF series



BF18 T0...

Order code	Rated conventional free air thermal current Ith ≤40°C	≤55°C	≤60°C	Qty per pkg	Wt
	[A]	[A]	[A]	n°	[kg]
AC COIL. Terminals: clamp screw.					
new **BF18 T0 A❶**	32	26	23	1	0.340
BF26 T0 A❶	45	36	32	1	0.420
DC COIL. Terminals: clamp screw.					
new **BF18 T0 D❷❹**	32	26	23	1	0.470
BF26 T0 D❷❹	45	36	32	1	0.540
DC COIL. Low consumption (2.4W). Terminals: clamp screw.					
new **BF18 T0 L❸❹**	32	26	23	1	0.470

Operational characteristics

Type	Protection fuse gG	Conductor section
	[A]	[mm²]
BF18 T0	40	1-6
BF26 T0	50	1.5-10

Certifications and compliance
Certifications obtained: cULus, GOST, CCC and CSA.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1.

❶ Complete with coil voltage digit if 50/60Hz or with voltage digit followed by 60 if 60Hz. Standard voltages are:
– AC 50/60Hz 024 / 048 /110 / 230 / 400V
– AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).
Example: 11 BG09 T2 A230 for mini-contactor BG09 T2, 2 poles NO and 2 poles NC, with 230VAC 50/60Hz coil.
11 BG09 T2 A460 60 for mini-contactor BG09 T2, 2 poles NO and 2 poles NC, with 460VAC 60Hz coil.

❷ Complete with coil voltage digit.
Standard voltages are:
– DC 012 / 024 / 048 / 060 / 110 / 125 / 220V.
Example: 11 BG09 T2 D012 for mini-contactor BG09 T2, 2 poles NO and 2 poles NC, with 12VDC coil.

❸ Low-consumption version.
Complete the order code with coil voltage digit.
Standard voltages are as follows:
– DC 024 / 048V.
Example: BF18 T2 L024 for contactor BF18 T2, 2 poles NO and 2 poles NC, with 24VDC low-consumption coil.

❹ Maximum combinations of add-on blocks are given on page 3-19.

❺ For use at this other current value, a 16mm² cable, headed with a fork terminal, must be used.

Add-on blocks / Accessories pages 3-16 to 25

Spare parts pages 3-28 to 31

Dimensions pages D-16 and 17

Wiring diagrams pages W-4

Technical characteristics pages TC-20 and 22

Control relays BG00 type



11 BG00...



11 BGF00...

Order code	Configuration and number of contacts ❹		Quantity per package	Wt
	NO	NC	n°	[kg]
AC COIL. Terminals: clamp screw.				
11 BG00 40 A❶	4	0	1	0.170
11 BG00 31 A❶	3	1	1	0.170
11 BG00 22 A❶	2	2	1	0.170
Terminals: Faston.				
11 BGF00 40 A❶	4	0	1	0.160
11 BGF00 31 A❶	3	1	1	0.160
11 BGF00 22 A❶	2	2	1	0.160
DC COIL. Terminals: clamp screw.				
11 BG00 40 D❷	4	0	1	0.175
11 BG00 31 D❷	3	1	1	0.175
11 BG00 22 D❷	2	2	1	0.175
Terminals: Faston.				
11 BGF00 40 D❷	4	0	1	0.165
11 BGF00 31 D❷	3	1	1	0.165
11 BGF00 22 D❷	2	2	1	0.165
DC COIL. Low-consumption (2.3W). Terminals: clamp screw.				
11 BG00 40 L❸	4	0	1	0.175
11 BG00 31 L❸	3	1	1	0.175
11 BG00 22 L❸	2	2	1	0.175
Terminals: Faston.				
11 BGF00 40 L❸	4	0	1	0.165
11 BGF00 31 L❸	3	1	1	0.165
11 BGF00 22 L❸	2	2	1	0.165

❶ Complete order code with coil voltage digit or with voltage digit followed by 60 if 60Hz.
Standard voltages are:
– AC 50/60Hz 024 / 048 / 110 / 230 / 400V
– AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).
Example: 11 BG00 40 A230 for control relay BG00 with four NO auxiliary contacts and 230VAC 50/60Hz coil.
11 BG00 40 A460 60 for control relay BG00 with four NO auxiliary contacts and 460VAC 60Hz coil.

❷ Complete the order code with coil voltage digit.
Standard voltages are:
– DC 012 / 024 / 048 / 060 / 110 / 125 / 220V.
Example: 11 BG00 40 D012 for control relay BG00 with four NO auxiliary contacts and 12VDC coil.

❸ Low-consumption version. No additional auxiliary contacts or the mechanical interlock can be mounted.
Complete the order code with coil voltage digit.
Standard voltages are:
– DC 024 / 048V.
Example: 11 BG00 40 L024 for control relay BG00 with four NO auxiliary contacts and 24VDC low-consumption coil.

❹ All contacts are highly conductive.

Operational characteristics
- Rated insulation voltage Ui: 690V
- Rated conventional free air thermal current Ith: 10A
- Designation according to IEC/EN 60947-5-1: A600-Q600
- Low-consumption version cannot accept additional contacts.

NOTE: No coil change or replacement is possible.

Certifications and compliance
Certification obtained: cULus, GOST and CCC.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Control relays with control circuit: AC and DC

Control relays BF00 type



BF00... A...



BF00... D...
BF00... L...

Order code	Configuration and number of contacts ❺		Quantity per package	Wt
	NO	NC	n°	[kg]
AC COIL. Terminals: clamp screw.				
BF00 40 A❶	4	0	1	0.340
BF00 31 A❶	3	1	1	0.340
BF00 22 A❶	2	2	1	0.340
BF00 04 A❶	0	4	1	0.340
DC COIL. Terminals: clamp screw.				
BF00 40 D❷❹	4	0	1	0.470
BF00 31 D❷❹	3	1	1	0.470
BF00 22 D❷❹	2	2	1	0.470
BF00 04 D❷❹	0	4	1	0.470
DC COIL. Low consumption (2.4W). Terminals: clamp screw.				
BF00 40 L❸❹	4	0	1	0.470
BF00 31 L❸❹	3	1	1	0.470
BF00 22 L❸❹	2	2	1	0.470
BF00 04 L❸❹	0	4	1	0.470

❶ Complete order code with coil voltage digit or with voltage digit followed by 60 if 60Hz.
Standard voltages are:
– AC 50/60Hz 024 / 048 / 110 / 230 / 400V
– AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).
Example: BF00 40 A230 for control relay BF00 with four NO auxiliary contacts and 230VAC 50/60Hz coil.
BF00 40 A460 60 for control relay BF00 with four NO auxiliary contacts and 460VAC 60Hz coil.

❷ Complete the order code with coil voltage digit.
Standard voltages are:
– DC 012 / 024 / 048 / 060 / 110 / 125 / 220V.
Example: BF00 40 D012 for control relay BF00 with four NO contacts and 12VDC coil.

❸ Low-consumption version.
Complete the order code with coil voltage digit.
Standard voltages are as follows:
– DC 024 / 048V.
Example: BF00 40 L24 for control relay BF00 with four NO contacts and 24VDC low-consumption coil.

❹ Maximum combinations of add-on blocks are given on page 3-19.

❺ All contacts are highly conductive.

Operational characteristics
- Rated insulation voltage Ui: 690V
- Rated conventional free air thermal current Ith: 10A
- Designation according to IEC/EN 60947-5-1: A600-P600.

Certifications and compliance
Certifications obtained: cULus, GOST and CCC.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

3

Add-on blocks and accessories



11 BGX10... (20-11-02)
11 BGX11 11



11 BGX10... (40-31-22-13-04)
11 BGX11 22



11 BGXF...



11 BGX77... -
11 BGX78 225 -
11 BGX79...



11 BGX50 00



11 SMX90 21
11 SMX90 22

❶ Cannot be used with BG...D and BG...L types.
❷ Suitable for left-hand mini-contactor only of BGT and BGTP reversing and BGC changeover assemblies.
❸ The shroud can be used with BG... types with screw termination only and with no auxiliary contacts, surge suppressor or mechanical interlock mounted.
It raises the front degree of protection of the mini-contactor when these are used in consumer switchboards.
❹ Cannot be used with BGX80 00 shroud.
❺ Contactors with one NC auxiliary contact, 01 type, are usually used for reversing assemblies.
The relay cannot be directly mounted on the contator. Use the RF38 type and the RFX38 04 independent mounting base.

Order code	Characteristics	Max qty per contactor	Qty per pkg	Wt
		n°	n°	[kg]
Auxiliary contacts. Screw terminals.				
11 BGX10 02	2NC	1	10	0.021
11 BGX10 11	1NO + 1NC	1	10	0.021
11 BGX10 20	2NO	1	10	0.021
11 BGX10 04❶	4NC	1	10	0.028
11 BGX10 13❶	1NO + 3NC	1	10	0.028
11 BGX10 22	2NO + 2NC	1	10	0.028
11 BGX10 31	3NO + 1NC	1	10	0.028
11 BGX10 40	4NO	1	10	0.028
Auxiliary contacts for reversing and changeover assemblies. Screw terminals.				
11 BGX11 11❷	1NO + 1NC	1	10	0.021
11 BGX11 22❷	2NO + 2NC	1	10	0.028
Auxiliary contacts. Faston terminals.				
11 BGXF10 02	2NC	1	10	0.021
11 BGXF10 11	1NO + 1NC	1	10	0.021
11 BGXF10 20	2NO	1	10	0.021
11 BGXF10 04❶	4NC	1	10	0.028
11 BGXF10 13❶	1NO + 3NC	1	10	0.028
11 BGXF10 22	2NO + 2NC	1	10	0.028
11 BGXF10 31	3NO + 1NC	1	10	0.028
11 BGXF10 40	4NO	1	10	0.028
Mechanical interlock.				
11 BGX50 00	For all BG types	1	10	0.008
Quick connect surge suppressors.				
11 BGX77 048	≤48VAC/DC (Varistor)		10	0.007
11 BGX77 125	48-125VAC/DC (Varistor)		10	0.007
11 BGX77 240	125-240VAC/DC (Varistor)		10	0.007
11 BGX78 225	≤225VDC (Diode)		10	0.007
11 BGX79 048	≤48VAC (Resistor-Capacitor)		10	0.007
11 BGX79 125	48-125VAC (Resistor-Capacitor)		10	0.007
11 BGX79 240	125-240VAC (Resistor-Capacitor)		10	0.007
11 BGX79 415	240-415VAC (Resistor-Capacitor)		10	0.007
Modular shroud.				
11 BGX80 00❸	Raises protection to IP40 w/consumer boards		20	0.006
Paralleling links. Clamp-screw terminals.				
11 G323❹	For 2 poles		10	0.009
11 G324			10	0.009
11 G325❹	For 4 poles		10	0.014
11 G326			10	0.014
Rigid connecting kits.				
11 SMX90 21❺	For star-delta starter composed by 3-contactor combination of BG types (line-star-delta)		10	0.040
11 SMX90 22❺	For reversing contactor assembly composed by mini-contactors BG ❺		1	0.026

Operational characteristics for add-on auxiliary contacts

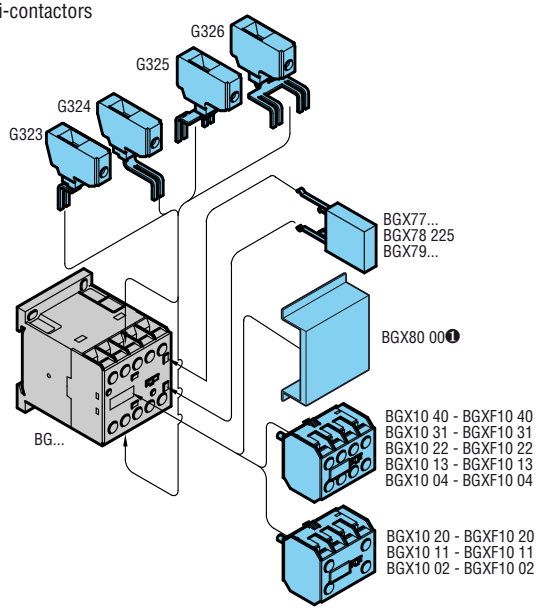
Type			BGX10... BGX11...	BGXF10...
Rated conventional free air thermal current Ith		A	10	10
Rated insulation voltage Ui voltage Ui		V	690	690
Terminals	Screw		M3	Faston 1-6.3mm 2-2.8mm
	Width	mm	6.9	6.9
Conductor section maximum with 1 or 2 cables	flexible without lug	mm^2	2.5	2.5
	flexible with lug	mm^2	2.5	2.5
	AWG	n°	14	14
IEC/EN 60947-5-1 designation		AC	A600	A600
		DC	Q600	Q600
Mechanical life (in millions)		cycles	20	20

SM1 breaker - mini-contactor connecting kits
See page 1-5.

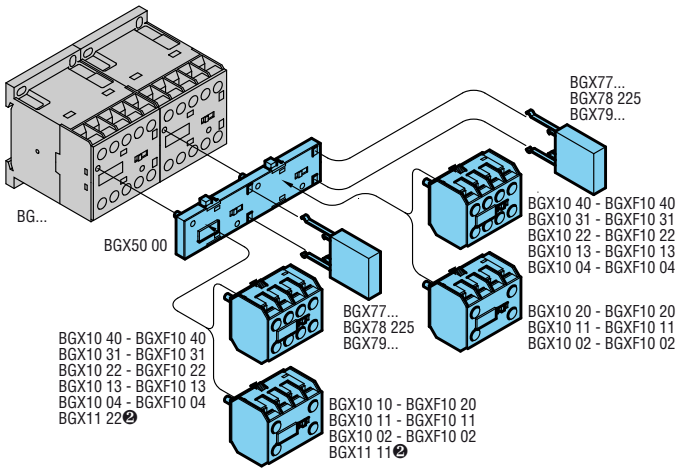
Certifications and compliance
Certifications obtained: GOST; cULus and CCC for BGX10... auxiliary contacts.
"Recognized": SMX90 21 and SMX90 22 only.
Compliant with standards: IEC/EN 60947-1; IEC/EN 60947-5-1 for auxiliary contacts.

Add-on blocks and accessories for BG series mini-contactors

Combinations: Mounting position on BG mini-contactors

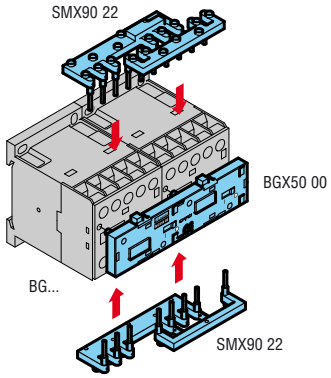


❶ Suitable for screw-termination contactors without BGX10... auxiliaries, BGX50 00 interlock or BGX7... surge suppressor.

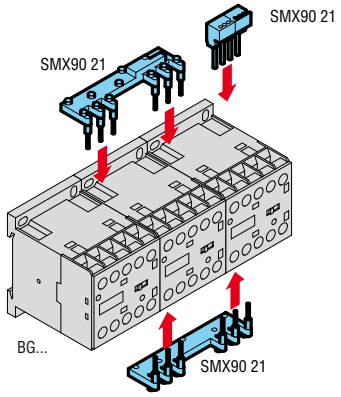


❷ For left-hand mini-contactor of BGT, BGTP and BGC contactor assemblies only.
See page 5-9.

Connections for reversing contactor assembly



Connections for star-delta assembly



Dimensions page D-23

Wiring diagrams page W-4 and 5

Technical characteristics pages TC-8 to 21

Contactors

Add-on blocks and accessories for BF series contactors

Add-on blocks



BFX10...



11 G484...



BFX10...



11 G418...



11 G218



11 G481...
11 G482



BFX12...



11 G428...



11 G485...
11 G486...
11 G487

Order code	Characteristics	Max qty per contactor	Qty per pkg	Wt
		n°	n°	[kg]
Auxiliary contacts with front centre mounting❷. Screw terminals.				
BFX10 02❶	2NC	1	5	0.030
BFX10 11❶	1NO + 1NC	1	5	0.030
BFX10 20❶	2NO	1	5	0.030
11 G484 03❶	3NC	1	5	0.039
11 G484 12❶	1NO + 2NC	1	5	0.039
11 G484 21❶	2NO + 1NC	1	5	0.039
11 G484 30❶	3NO	1	5	0.039
BFX10 04	4NC	1	5	0.048
BFX10 13	1NO + 3NC	1	5	0.048
BFX10 22	2NO + 2NC	1	5	0.048
BFX10 31	3NO + 1NC	1	5	0.048
BFX10 40	4NO	1	5	0.048
Auxiliary contacts for front lateral mounting. Screw terminals.				
11 G418 01	1NC	2	10	0.014
11 G418 01D	1LB	2	10	0.014
11 G418 10	1NO	2	10	0.014
11 G418 10A	1EM	2	10	0.014
Auxiliary contacts for front lateral mounting. Faston terminals.				
11 G218	1NO or 1NC reversible	2	10	0.011
11 G481 02	2NC	2	10	0.013
11 G481 11	1NO + 1NC	2	10	0.013
11 G481 20	2NO	2	10	0.013
11 G482❷	Changeover contact	2	10	0.013
Adapter for auxiliary contact side mounting.				
11 G280	for G218	2	10	0.008
11 G419	for G418	2	10	0.010
11 G483	for G481 and G482	2	10	0.010
Auxiliary contacts for side mounting. Screw terminals.				
11 G428 01	1NC	2	10	0.024
11 G428 01D	1LB	2	10	0.024
11 G428 10	1NO	2	10	0.024
11 G428 10A	1EM	2	10	0.024
BFX12 02	2NC for BF00, BF09-BF38	2	5	0.040
BFX12 11	1NO+1NC for BF00, BF09-BF38	2	5	0.040
BFX12 20	2NO for BF00, BF09-BF38	2	5	0.040
Delayed auxiliary contacts 1NO + 1NC (pneumatic operation) on energisation for front centre mounting ❶. Screw terminals.				
11 G485 3	3 s	1	1	0.040
11 G485 6	6 s	1	1	0.040
11 G485 15	15 s	1	5	0.040
11 G485 30	30 s	1	5	0.040
11 G485 60	60 s	1	5	0.040
11 G485 120	120 s	1	1	0.040
Delayed auxiliary contacts 1NO + 1NC (pneumatic operation) on de-energisation for front centre mounting ❶. Screw terminals.				
11 G486 3	3 s	1	1	0.040
11 G486 6	6 s	1	1	0.040
11 G486 15	15 s	1	5	0.040
11 G486 30	30 s	1	5	0.040
11 G486 60	60 s	1	5	0.040
11 G486 120	120 s	1	1	0.040
11 G487	70 ms	1	1	0.040

Operational characteristics for add-on auxiliary contacts

Type		G418 G428 G485❸ G486❸ G487❸	G484 BFX10 BFX12	G218 G481	G482❹
Conventional free air thermal current Ith	A	10	10	10	0.1❺
Rated insulation voltage Ui	V	690	690	690	690
Terminals: Screw		M3.5	M3	—	—
Width	mm	7	7	—	—
Faston		—	—	1-6.35 2-2.8	1-6.35 2-2.8
Conductor section maximum with 1 or 2 cables flexible w/o lug	mm^2	2.5	2.5	—	—
flexible c/w lug	mm^2	2.5	2.5	2.5	2.5
AWG	n°	14	14	14	14
Terminal protection per IEC/EN 60529		IP20❻	IP20	IP20❼	IP20❼
IEC/EN 60947-5-1 designation	AC	A600	A600	A600	—
	DC	P600❽	Q600	P600	—
Mechanical life (in millions)	cycles	10❾	10	10	10

❸ For particularly severe ambient conditions, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).
❹ Gold-plated contacts inside tight enclosure for use in pollutant environments.
❺ Referred to 125VAC and 30VDC.
❻ IP20 protection is warranted to equipment wired with 0.75mm^2 minimum cable section for G418 or G428 and 1mm^2 minimum for G485, G486 and G487 types.
❼ IP20 protection is warranted to equipment wired with insulated Faston terminals.
❽ Q600 for G418... and G428.
❾ 3 million cycles for G485, G486, G487.

SM1 breaker - contactor connecting kits
See page 1-5.

Maximum assembly combination of add-on blocks
See pages 3-22 to 3-25.

Certifications and compliance
Certifications obtained:

Type	UL	cULus	CSA	GOST	CCC
BFX10...	—	●	—	▲	●
BFX12...	—	▲	—	▲	▲
G218	ᴿᵁ	—	●	●	●
G418..., G428...	ᴿᵁ	—	●	●	●
G481...	ᴿᵁ	—	●	●	●
G482	ᴿᵁ	—	●	●	●
G484...	ᴿᵁ	—	●	●	●
G485...	ᴿᵁ	—	●	●	●
G486...	ᴿᵁ	—	●	●	●
G487...	ᴿᵁ	—	●	●	●

● Certified products.
▲ Pending completion.
ᴿᵁ "Recognized". Products having this type of marking are intended for use as components of complete workshop-assembled equipment.

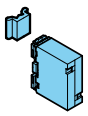
Add-on auxiliary contacts are compliant with the following standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

❶ The contacts can also be fitted on B type contactors using the adapter G358. See pages 3-26 and 3-27.
❷ Highly conductive contacts.

Add-on blocks and accessories for BF series contactors

BF00 A, BF09 A-BF110, BF50C-BF110C

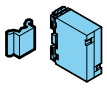
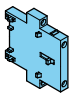
Maximum assembly combination for alternating current contactors BF00 A, BF09 A-BF110 A
Maximum assembly combination for direct current contactors BF50 C-BF110 C.

			Front centre mounting					Front lateral mounting			Side mounting	
												
			BFX10 02	BFX10 04	G485...	G222...❹		BFX50 02	G269 2	G418...	G428...	BFX12 02
			BFX10 11	BGX10 13	G486...	G272...❹		BFX50 03 ❶		G218	G419+ G418...	BFX12 11
			BFX10 20	BFX10 22	G487					G481...	G280+ G218	BFX12 20
				BFX10 31						G482	G483+ G481...	BFX50 00
				BFX10 40						G318...	G483+ G482	BFX50 01
										G319 225		
										G322...		
			n° of blocks	n° of blocks	n° of blocks	n° of blocks		n° of blocks	n° of blocks	n° of blocks	n° of blocks	n° of blocks
Contactors	Control relays	BF00 A	1	1	1	1 ❺		1	—	1 o 2 ❶	1 o 2 ❶	1 ❸
	Three poles	BF09 A-BF25 A	1	1	1	1 ❺		1	—	1 o 2 ❶	1 o 2 ❶	1 ❸
		BF26 A-BF38 A	1	1	1	1 ❺		1	—	1 o 2 ❶	1 o 2 ❶	1 ❸
		BF50-BF110	1	1	1	1 ❻		—	1	1 o 2 ❶	2	—
		BF50 C-BF110 C	1	1	1	1 ❻		—	1	1 o 2	2	—
	Four poles	BF09 A-BF25 A	1	1	1	1 ❺		1	—	1 o 2	1 o 2 ❶	1 ❸
		BF26 A-BF38 A	1	1	1	1 ❺		1 ❷	—	1 ❶	1 o 2 ❶	1 ❸
		BF50-BF80	1	1	1	1 ❻		—	1	1 o 2	2	—
		BF65 C-BF80 C	1	1	1	1 ❻		—	1	1 o 2	2	—

❶ Mounting is not possible when BFX10... block with 4 contacts and/or G222 latch are mounted.
❷ To fit the mechanical interlock, the add-on fourth pole needs to mounted on the left side of the one of the contactors.
❸ One only side-mount block can be fitted whenever the BFX50 0... interlock is mounted.
❹ Another BFX10... or delayed G48... contact block can be mounted on the G222 or G272 mechanical latch.
❺ G222 mechanical latch.
❻ G272 mechanical latch.

BF00 D, BF09 D-BF38 D, BF00 L, BF09 L-BF38 L

Maximum assembly combination for direct current contactors BF00 D, BF09 D-BF38 D
Maximum assembly combination for direct current contactors BF00 L, BF09 L-BF38 L

			Centre mountinng								Side mounting			
														
			BFX10...			BFX10...			G485...	G222...	BFX50...		BFX50 00	BFX12...
			...02	...11	...20	...04	...13	...22	...31	40	G486... G487		...02	...03	BFX50 01	
			n° of blocks			n° of blocks					n° of blocks	n° of blocks	n° of blocks			
Contactors	Control relays	BF00 D	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		BF00 L	1	1	1	—	—	1	1	1	—	1	1	1	—	—
	Three poles	BF09 D-BF25 D	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		BF26 D-BF38 D	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		BF09 L-BF25 L	1	1	1	—	—	1	1	1	—	1	1	1	—	—
		BF26 L-BF38 L	1	1	1	—	—	1	1	1	—	1	1	1	—	—
	Four poles	BF09 D-BF25 D	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		BF26 D-BF38 D	—	1	1	—	—	—	—	—	—	1	1❼	1	1	1
		BF09 L-BF25 L	1	1	1	—	—	1	1	1	—	1	1	1	—	—
		BF26 L-BF38 L	—	1	—	—	—	—	—	—	—	—	1❼	1❼	—	—

❼ To fit the mechanical interlock, the add-on fourth pole needs to mounted on the left side of the one of the contactors.
For other assembly combination, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

Dimensions page D-24

Wiring diagrams pages W-5 and 6

Technical characteristics pages TC-8 to 25

Contactors

Add-on blocks and accessories for BF series contactors

Add-on blocks



BFX42
BFXD42



BFX50 00 BFX50 01



BFX50 02



BFX50 03
11 G269 2



11 G222...
11 G272...



11 G454
11 G455



BFX77...
BFX79...



11 G318...
11 G319 225
11 G322...



11 RE244

Order code	Characteristics	Max qty per contactor	Qty per pkg	Wt
		n°	n°	[kg]
Fourth pole.				
BFX42	For BF26 A-BF32 A and BF38 A	1	1	0.070
BFXD42	For BF26 D-BF32 D BF38 D-BF26 L-BF32 L - BF38L	1	1	0.070
Mechanical interlocks.				
BFX50 00❶	Side mount for BF00, BF09-BF38	1	5	0.032
BFX50 01❶	Side mount with 2NC contacts for BF00, BF09-BF38	1	5	0.040
BFX50 02	Front mount, low profile for BF00, BF09-BF38	1	5	0.005
BFX50 03	Front mount for BF00, BF09-BF38	1	5	0.023
11 G269 2	Front mount for BF50-BF110	1	5	0.028
Mechanical latch. Screw terminals.				
11 G222❷	For BF00, BF09-BF38	1	1	0.059
11 G272❷	For BF50-BF110	1	1	0.059
Manual closing mechanism.				
11 G454	For BF00, BF09-BF38	1	1	0.021
11 G455	For BF50-BF110	1	1	0.028
Quick connect surge suppressors for BF00A, BF09A-BF38A contactors.				
BFX77 048	≤48VAC (Varistor)		10	0.010
BFX77 125	48-125VAC (Varistor)		10	0.010
BFX77 240	125-240VAC (Varistor)		10	0.010
BFX79 048	≤48VAC (Resistor-Capacitor)		10	0.010
BFX79 125	48-125VAC (Resistor-Capacitor)		10	0.010
BFX79 240	125-240VAC (Resistor-Capacitor)		10	0.010
BFX79 415	240-415VAC (Resistor-Capacitor)		10	0.010
Surge suppressor for BF50-BF110 contactors, front mount. Faston terminals.				
11 G318 48	≤48VAC/DC (Varistor)		10	0.008
11 G318 125	48-125VAC/DC (Varistor)		10	0.008
11 G318 240	125-240VAC/DC (Varistor)		10	0.008
11 G318 415	240-415VAC/DC (Varistor)		10	0.008
11 G319 225	≤225VDC (Diode)		10	0.008
11 G322 48	≤48VAC (Resistor-Capacitor)		10	0.008
11 G322 220	48-240VAC (Resistor-Capacitor)		10	0.008
11 G322 380	240-415VAC (Resistor-Capacitor)		10	0.008
Suppressor mounting adapter for G318-G319-G322.				
11 RE244	For 35mm DIN rail (IEC/EN 60715)		10	0.004

❶ Different sized contactors can be interlocked.
Example: BF09-BF25 with BF26-BF38.

❷ Replace with the digit of the voltage if 50 or 60Hz and with the letter C followed by the digit of the voltage if DC.
Standard voltages are:
– 50/60Hz 24 / 48 / 110-125 indicate 110 / 220-240 indicate 220 / 380-415V indicate 380.
– DC 12 / 24 / 48 / 110-125 indicate 110 / 220-240V indicate 220.

Operational characteristics

Type			BFX42 BFXD42	BFX50 01
Conventinal free air thermal current Ith		A	56	10
Rated insulation voltage Ui		V	690	690
Terminals:	Screw		M4	M3
	Width	mm	12.5	7
Conductor section Maximum with 1 or 2 cables				
	flexible w/o lug	mm^2	16	2.5
	flexible c/w lug	mm^2	16	2.5
	AWG	n°	6	14
Terminal protection per IEC/EN60529			IP20❸	IP20
IEC/EN 60947-5-1 designation		AC	—	A600
		DC	—	Q600
Mechanical life (in millions)		cycles	10	10

Type			G222	G272
Rated control circuit voltage	AC (50/60 Hz)	V	24-415	24-415
	DC	V	12-240	12-240
Power consumption with control	AC	VA	40	40
	DC	W	70	70
Minimum energising	drop-out	ms	10	10
	pick-up	ms	50	100

❸ See page TC-22 to warrant IP20 protection.

Maximum assembly combination of add-on blocks
See page 3-22 to 3-25.

Certifications and compliance
Certifications obtained:

Type	UL	cULus	CSA	GOST
BFX42 - BFXD42	—	●	—	●
BFX50...	—	●	—	●
BFX77...	—	●	—	●
BFX79...	—	●	—	●
G269 2	ᴿᵁ	—	●	●
G222...	ᴿᵁ	—	●	●
G272...	ᴿᵁ	—	●	●

● Certified products.
ᴿᵁ "Recognized". Products having this type of marking are intended for use as components of complete workshop-assembled equipment.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Dimensions pages D-24
Wiring diagrams page W-5 and 6
Technical characteristics pages TC-8 to 25

Accessories



BFX31...
BFX32...

new



BFX 80



BFX89 01



BFX89 02



11 G265



11 BA135
11 BA235



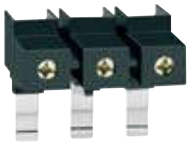
11 BA435



11 G231
11 G232



11 G285



11 G271



11 G288

Order code di ordinazione	Characteristics	Qty per pkg	Wt
		n°	[kg]
Rigid connecting kits for three-pole reversing contactor assembly.			
BFX31 01❶	For contactors BF09 - BF25 side by side with mechanical interlock	1	0.060
BFX31 02❶	For contactors BF09 - BF25 side by side with BFX50 00 or BFX50 01 mechanical interlock	1	0.063
BFX32 01❷	For contactors BF26 - BF38 side by side with mechanical interlock	1	0.080
Rigid connecting kits for star-delta starters.			
BFX31 31	For contactors BF09-BF25 (line-star-delta)	1	0.065
BFX32 31	For contactors BF26-BF38 (line-star-delta)	1	0.085
BFX32 32	For contactors BF26-BF38 (line-delta) and BF09-BF25 (star)	1	0.080
Sealing cover.			
BFX80	For contactors BF00, BF09-BF38	10	0.006
Screw fixing adapters for contactors.			
BFX89 01	Universal base to screw fix BF09-BF38 contactors	5	❸
BFX89 02	Screw fixing brackets for BF09-BF38 contactors	10	❸
Power terminal shroud.			
11 G265❹	IP20 protection for 3-pole BF50 to BF110 types	10	0.011
Paralleling links.			
11 BA135	2 poles for BF09-BF25 types	10	0.001
11 BA235	2 poles for BF26-BF38 types	10	0.003
11 BA435	3 poles for BF50-BF110 types	10	0.029
One-pole enlarged terminals.			
11 G231	1-6 mm^2 for BF09-BF25 types	12	0.008
11 G232	1-16 mm^2 for BF26-BF38 types	12	0.017
Three-pole enlarged terminals.			
11 G271	1-50 mm^2 for BF50-BF110 types	10	0.130
Four-pole enlarged terminals.			
11 G288	1x50mm^2 for contactors BF50-BF110 types	10	0.174
Auxiliary terminal.			
11 G285	For BF50-BF110 types	8	0.008
Marking element for BF00, BF09-BF110 contactors.			
BFX30	Blank label for writing	50	0.001

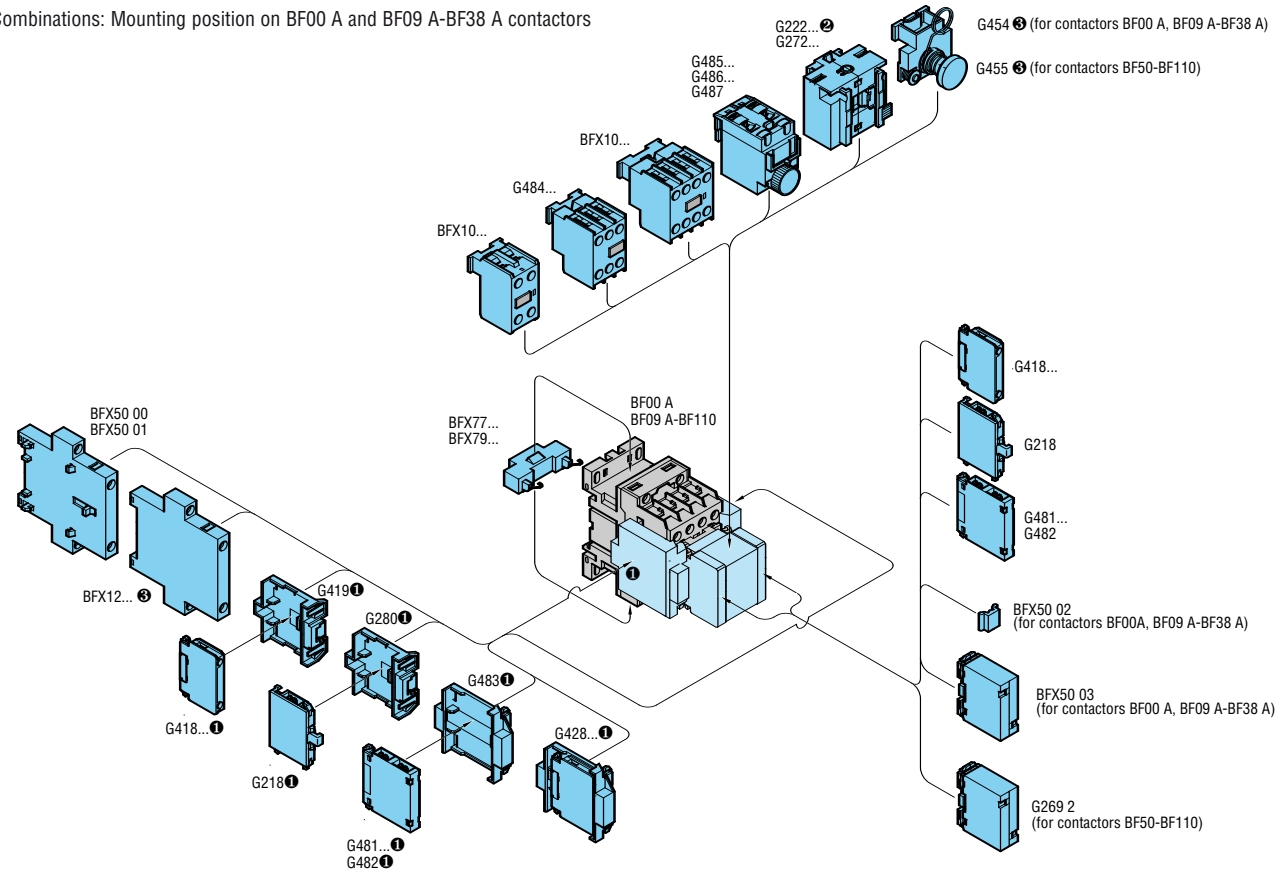
❶ Mechanical interlock BFX50 02 or BFX50 03 can be used only.
❷ Any type of mechanical interlock BFX50 00, BFX50 01, BFX50 02 can be used.
❸ Contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).
❹ For 3-pole contactors, BF50-BF110 types only.
N.B. Two pieces are required per contactor.

Certifications and compliance
Certifications obtained: cULus for BFX31 01, BFX31 02, BFX32 01, BFX31 31, BFX32 31 and BFX32 32 and GOST.
Compliant with standards: IEC/EN 60947-1.

3

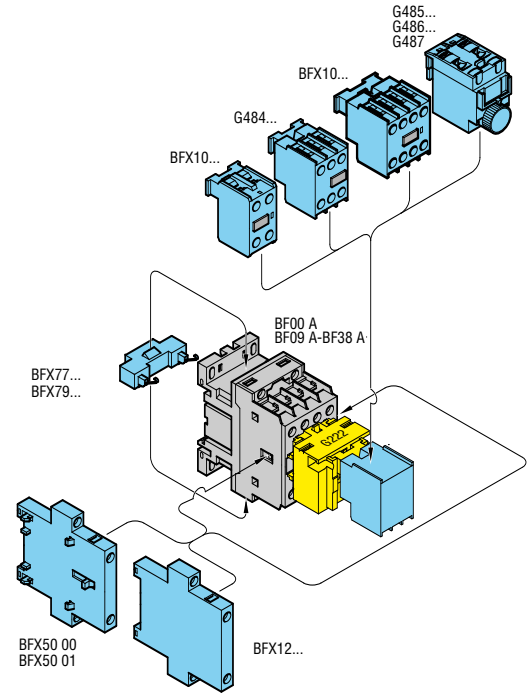
Add-on blocks for AC contactors

Combinations: Mounting position on BF00 A and BF09 A-BF38 A contactors

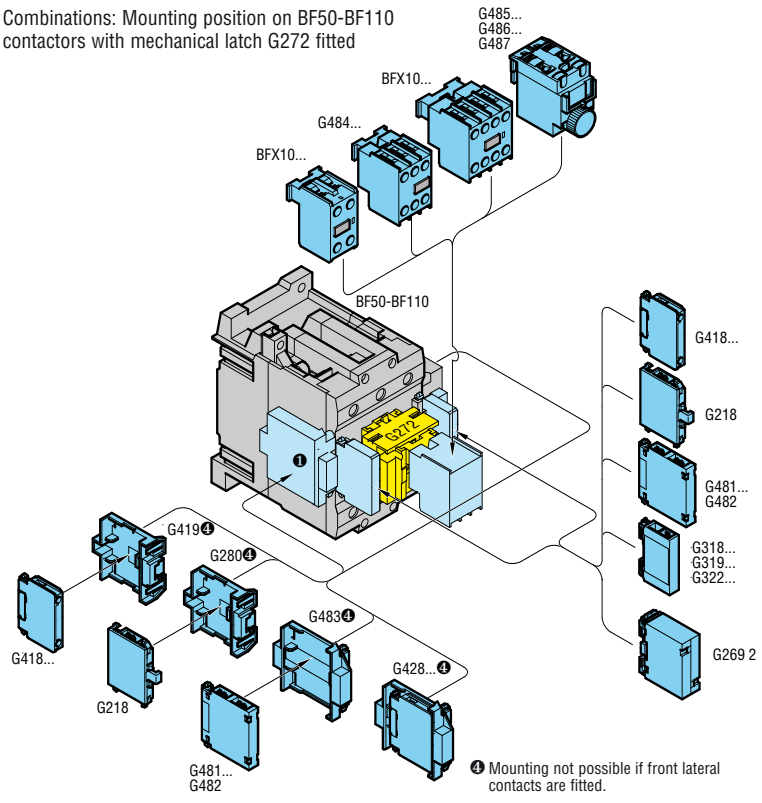


❶ Mounting not possible if front lateral contacts or mechanical interlock BFX50 00 or BFX50 01 are mounted.
❷ If the G222 latch is mounted, no front lateral contacts can be fitted.
❸ No add-on block can be mounted on front when the manual closing mechanism G454 or G455 is fitted.

Combinations: Mounting position on BF00 A and BF09 A-BF38 A contactors with mechanical latch G222 fitted



Combinations: Mounting position on BF50-BF110 contactors with mechanical latch G272 fitted



❹ Mounting not possible if front lateral contacts are fitted.

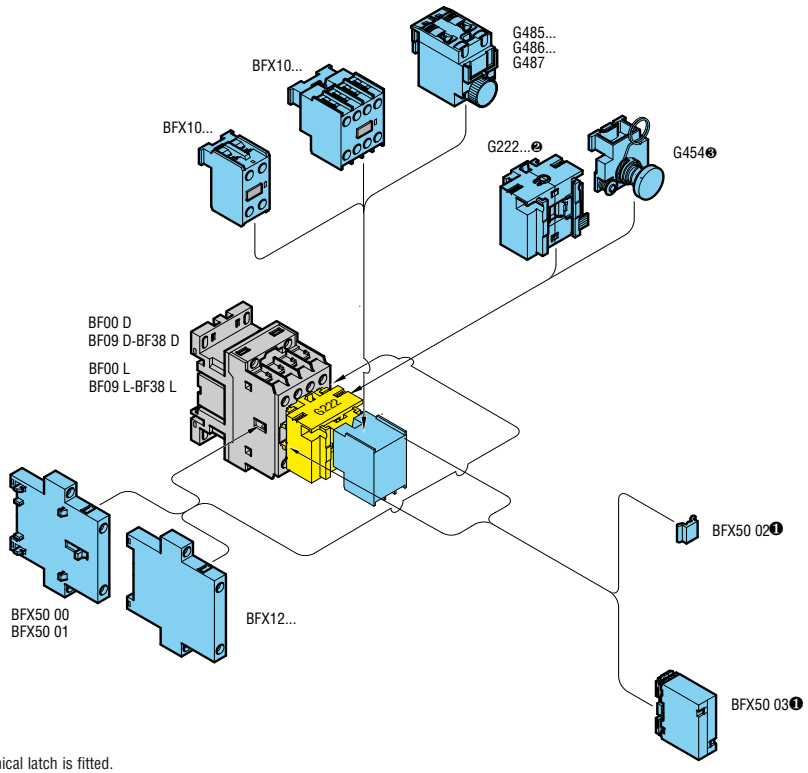
Dimensions
pages D-24

Wiring diagrams
pages W-5 and 6

Technical characteristics
pages TC-8 to 25

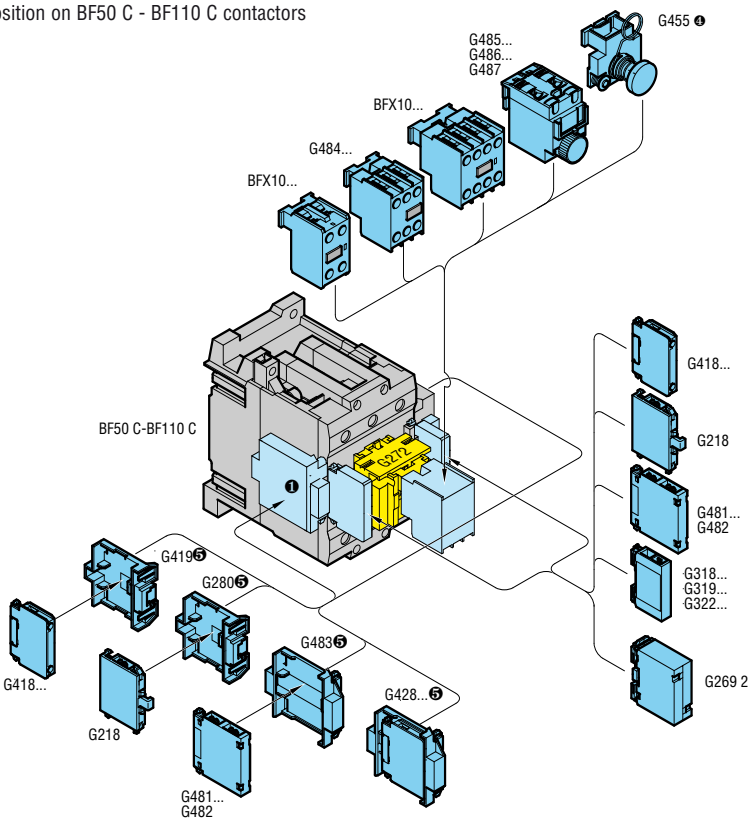
Add-on blocks for DC contactors

Combinations: Mounting position on BF00 and BF09-BF38, D and L versions
Combination table: See page 3-19



❶ Mounting not possible when the G222 mechanical latch is fitted.
❷ If the G222 mechanical latch is fitted, the mechanical interlock BFX50 02 or BFX50 03 cannot be used.
❸ No add-on block can be mounted on front when the G454 manual closing mechanism is fitted.

Combinations: Mounting position on BF50 C - BF110 C contactors

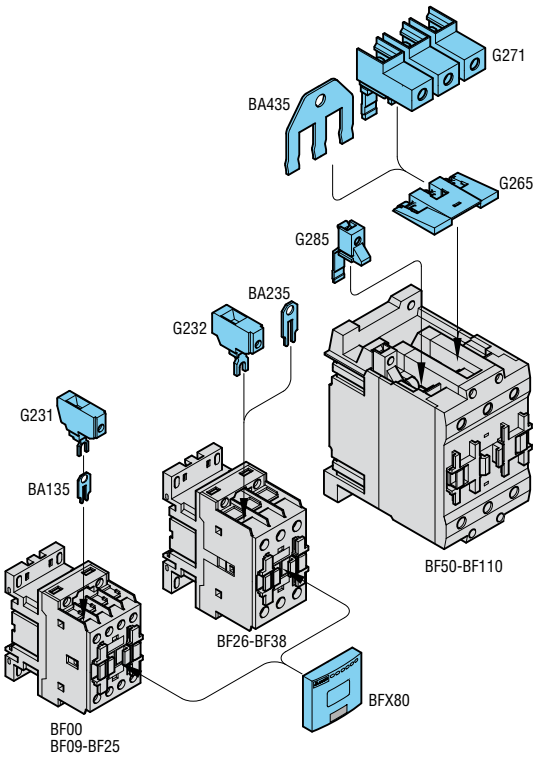


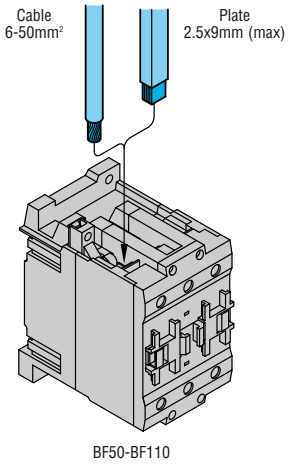
❹ No add-on block can be mounted on front when the G455 manual closing mechanism is fitted.
❺ Mounting not possible if front lateral contacts are fitted.

Accessories for AC, DC and DC low consumption contactors

3

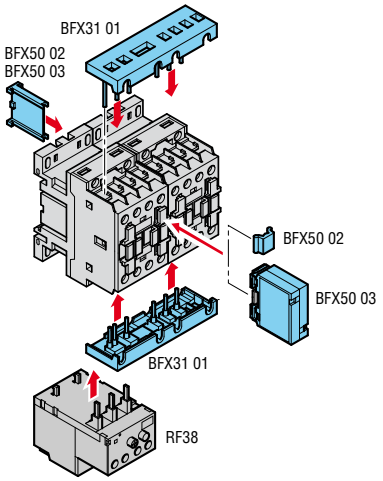
Combinations





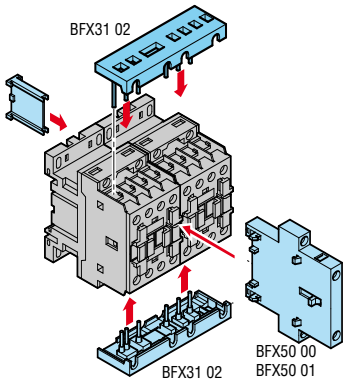
Accessories for AC, DC and DC low consumption contactors

Rigid reversing contactor assembly connecting kits for BF09-BF25 contactors with BFX50 02 or BFX50 03 mechanical interlock



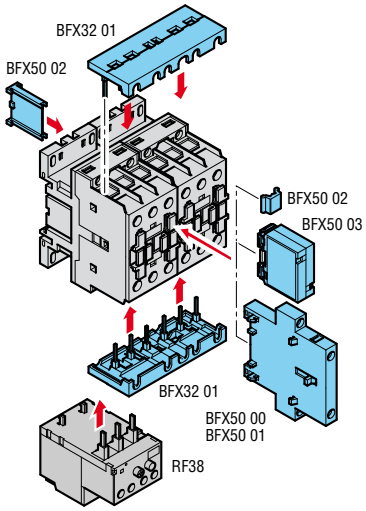
RF38 thermal overload relay can be mounted only on left side contactor.

Rigid reversing contactor assembly connecting kits for BF09-BF25 contactors with BFX50 01 or BFX50 02 mechanical interlock



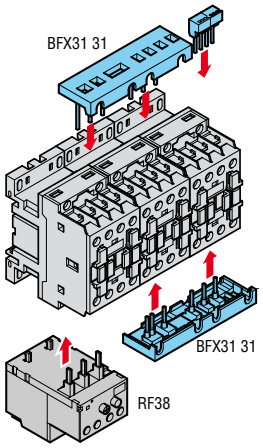
RF38 thermal overload relay can be mounted only on left side contactor.

Rigid reversing contactor assembly connecting kits for BF26-BF38 contactors with BFX50 02 or BFX50 03 mechanical interlock

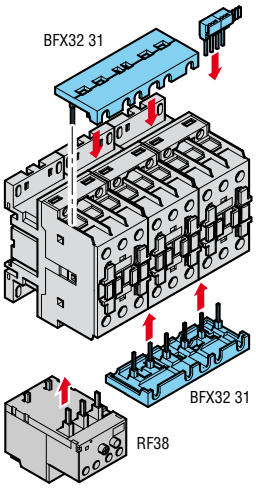


RF38 thermal overload relay can be mounted only on left side contactor.

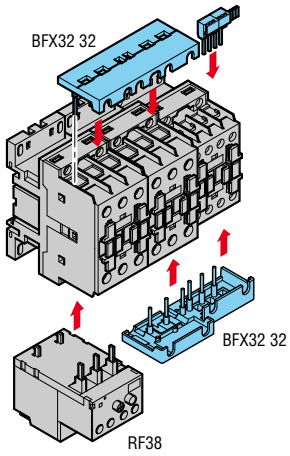
Rigid star-delta starter assembly connecting kits for BF09-BF25 contactors



Rigid star-delta starter assembly connecting kits for BF26-BF38 contactors



Rigid star-delta starter assembly connecting kits for BF26-BF38 (line-delta) and BF09-BF25 (star) contactors



Dimensions
pages D-24
Wiring diagrams
page W-5 and 6
Technical characteristics
pages TC-8 to 25

Contactors
Add-on blocks and accessories for B series contactors

Add-on blocks



11 G350 - 11 G354



11 G358

Order code	Characteristics	Max qty per contactor	Qty per pkg	Wt
		n°	n°	[kg]
Faston terminals. Auxiliary contacts for side mounting.				
11 G350❶	2NO+1NC or 1NO+2NC reversible	4❶	4	0.067
11 G354❶	1NO+1NC	4❶	4	0.065
Contact block adapter.				
11 G358	To fit auxiliary contacts BFX10, G484, G485, G486 and G487 types, on B115-B630 1000 contactors; see page 3-18.	4	5	0.035
Mechanical interlock.				
11 G355❷❸	Side by side	1	1	0.025
11 G356 1❷❹	One on top of other	1	1	0.104
11 G356 2❷❹	One on top of other	1	1	0.110
11 G356 3❷❹	One on top of other	1	1	0.116
11 G356 4❷❹	One on top of other	1	1	0.122
11 G356 5❷❹	One on top of other	1	1	0.124
11 G356 6❹❺	One on top of other	1	1	0.134
Mechanical latch.				
11 G495❻❼❽	For B115-B630	1	1	0.716

Operational characteristics of auxiliary contacts

Type			G350 G354
Conventional free-air thermal current Ith		A	16
Rated insulation voltage Ui		V	690
Terminals	Faston		1-6.35 2-2.8
Conductor section maximum with 1 or 2 cables	flexible c/w lug	mm^2	2.5
	AWG	n°	14
IEC/EN 60947-5-1 designation		AC	A600
		DC	P600
Mechanical life (in millions)		cycles	5

Operational characteristics of mechanical latch

Type			G495❼
Rated control circuit voltage	AC (50/60Hz)	V	48-480
	DC	V	48-480
Power consumption	AC	VA	1500
	DC	W	1100
Minimum energising	drop-out	ms	40
	pick-up	ms	300

Certifications and compliance

Certifications obtained:

Type	UL	CSA	GOST	CCC
G350	ᴿᵁ	●	●	●
G354	ᴿᵁ	●	●	—
G355	—	●	●	—
G356 ...	—	●	●	—
G360	—	●	●	—
G361	—	●	●	—
G362	—	●	●	—
G363	—	●	●	—
G370	—	●	●	—

● Certified products.
ᴿᵁ "Recognized". Products having this type of marking are intended for use as components of complete workshop-assembled equipment.

Add-on auxiliary contacts comply with the following standards: IC/EN 60947-1, IEC/EN 60947-5-1.

Accessories



11 G360 - 11 G361 - 11 G363



11 G527 - 11 G528 - 11 G529
11 G530



11 G370



11 G371

11 BA126 1

11 BA126 2



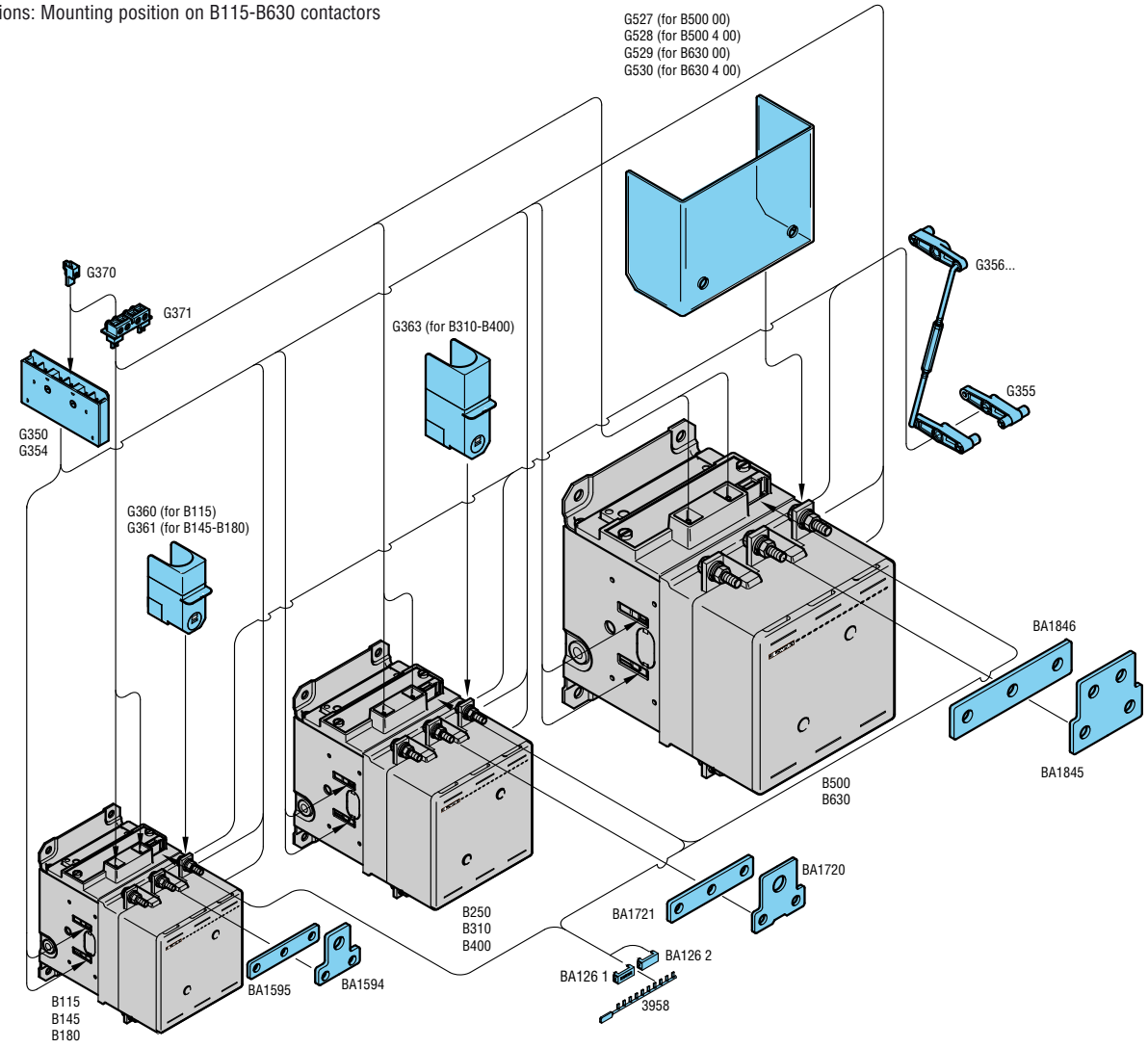
3958...

Order code	Characteristics	Qty per pkg	Wt
		n°	[kg]
Power terminal protection.			
11 G360❾	For contactor B115	6	0.026
11 G361❾	For contactors B145-B180	6	0.026
11 G363❾	For contactors B250-B310-B400	6	0.047
11 G527	For contactor B500	1	0.238
11 G528	For contactor B500 4	1	0.265
11 G529	For contactor B630	1	0.250
11 G530	For contactor B630 4	1	0.290
3 pole star connecting bars.			
11 BA1595	For B115-B145-B180	1	0.082
11 BA1721	For B250-B310-B400	1	0.140
11 BA1846	For B500-B630	1	0.340
2 pole bars for parallel arrangement.			
11 BA1594	For B115-B145-B180	1	0.089
11 BA1720	For B250-B310-B400	1	0.140
11 BA1845	For B500-B630	1	0.320
Terminal adapter.			
11 G370	To transform Faston terminals of auxiliary contacts and coils into screw terminals	10	0.003
11 G371	To transform both coil Faston terminals into screw terminals	5	0.012
Marking elements.			
11 BA126 1	Label for alphanumeric symbols	50	0.001
11 BA126 2	Label for writing	50	0.001
3958⓫	Alphanumeric symbols	100	0.002

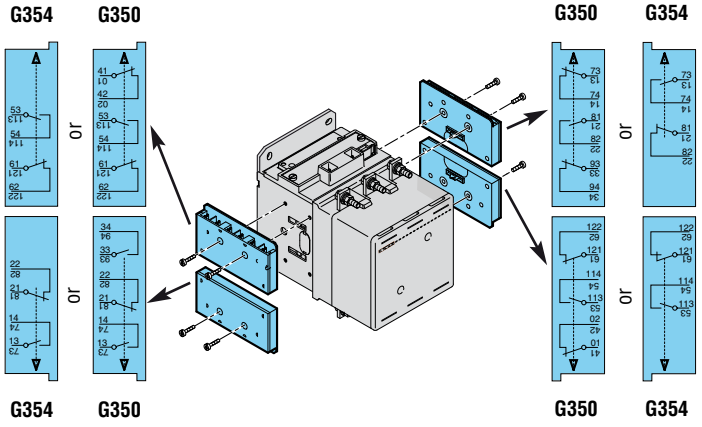
❶ Only one piece can be mounted on B1250 or B1600 type.
❷ Not suitable for B630 1000, B1250, B1600.
❸ For use with three-pole B630 1000, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).
❹ Allowed distances see page TC-28.
❺ To interlock two contactors B1250 or B1600, it is imperative to use two pieces of type G356 6, one fixed on the left side and the other on the right.
❻ Replace with the digit of the voltages if 50 or 60 Hz or with the letter C followed by voltage if DC.
The standard voltages are:
– AC 50/60Hz 48 - 110/125 indicate 110 - 220/240 indicate 220 - 380/415 indicate 380 - 440/480V indicate 440
– DC 48 - 110/125 indicate 110 - 220/240 indicate 220 - 380/415 indicate 380 - 440/480V indicate 440
❼ It can be mounted only in contactors if predisposed for it.
❽ Except for B310 and B310 4.
❾ Provided for one pole terminal only. Example: For three-pole contactors, purchase 3 pieces for the upper terminals only or 6 pieces for all upper and lower terminals.
⓫ Replace with the required alphanumeric symbol; each package contains 100 pieces of the same symbol.

Dimensions pages D-25 and 26
Wiring diagrams page W-6
Technical characteristics pages TC-28 and 29

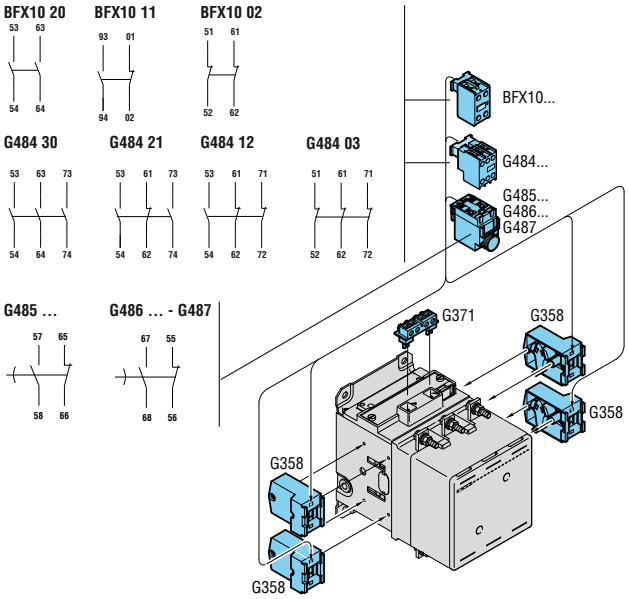
Combinations: Mounting position on B115-B630 contactors



The add-on auxiliary contact blocks G350 and G354 can be applied to contactors B115-B630 1000 only up to a maximum of four pieces for each contactor, for a total of 12 contacts.
The contact block G350 provides a 2NO+1NC or 1NO+2NC combination depending on its mounting position; see the drawing below. The G354 block consists of 1NO+1NC.



Contact blocks, BFX10 with 2 contacts, G484, G485, G486 and G487 types, can be mounted using the G358 adapter, refer to page 3-18 for exact types and order codes of the blocks.
A maximum of four adapters can be possibly used per contactor and each adapter can hold one BFX10, G484, G485, G486 and G487.



Dimensions pages D-25 and 26

Wiring diagrams pages W-6

Technical characteristics pages TC-28 and 29

AC coils



BFX91A...



BFX92A...



11 BA705...

Order code	Rated frequency and voltage		Qty per pkg	Wt
	[Hz]	[V]	n°	[kg]
For contactors BF00 A-BF09 A-BF12 A-BF18 A-BF25 A				
BFX91A 024❶	50/60	24VAC	1	0.085
BFX91A 048❶		48VAC	1	0.085
BFX91A 110❶		110VAC	1	0.085
BFX91A 230❶		230VAC	1	0.085
BFX91A 400❶		400VAC	1	0.085
BFX91A 024 60❶	60	24VAC	1	0.085
BFX91A 048 60❶		48VAC	1	0.085
BFX91A 120 60❶		120VAC	1	0.085
BFX91A 220 60❶		220VAC	1	0.085
BFX91A 230 60❶		230VAC	1	0.085
BFX91A 460 60❶		460VAC	1	0.085
BFX91A 575 60❶		575VAC	1	0.085
For contactors BF26 A-BF32 A-BF38 A.				
BFX92A 024❶	50/60	24VAC	1	0.088
BFX92A 048❶		48VAC	1	0.088
BFX92A 110❶		110VAC	1	0.088
BFX92A 230❶		230VAC	1	0.088
BFX92A 400❶		400VAC	1	0.088
BFX92A 024 60❶	60	24VAC	1	0.088
BFX92A 048 60❶		48VAC	1	0.088
BFX92A 120 60❶		120VAC	1	0.088
BFX92A 220 60❶		220VAC	1	0.088
BFX92A 230 60❶		230VAC	1	0.088
BFX92A 460 60❶		460VAC	1	0.088
BFX92A 575 60❶		575VAC	1	0.088
For BF50-BF65-BF80-BF95-BF110 contactors.				
11 BA705 024	50/60	24VAC	1	0.145
11 BA705 048		48VAC	1	0.145
11 BA705 110		110VAC	1	0.145
11 BA705 230		230VAC	1	0.145
11 BA705 400		400VAC	1	0.145
11 BA705 024 60	60	24VAC	1	0.145
11 BA705 048 60		48VAC	1	0.145
11 BA705 120 60		120VAC	1	0.145
11 BA705 220 60		220VAC	1	0.145
11 BA705 230 60		230VAC	1	0.145
11 BA705 460 60		460VAC	1	0.145
11 BA705 575 60		575VAC	1	0.145

❶ Four-terminal coil.

Operational characteristics for BFX91 A or BFX92 A coils
AC control

Rated voltage at 50/60, 60Hz		from	V	12
		to	V	600
Operating limits for 50/60Hz powered at 50Hz or 60Hz type	pick up	from	% Us	80
		to	% Us	110
	drop out	from	% Us	20
		to	% Us	55
Operating limits for 50/60Hz type when powered at 60Hz	pick up	from	% Us	85
		to	% Us	110
	drop out	from	% Us	20
		to	% Us	55
Consumption for 50/60Hz type	50Hz	in-rush	VA	65
		holding	VA	8.5
	60Hz	in-rush	VA	70
		holding	VA	6.5
Dissipation	at 50Hz		W	2.5

Operational characteristics for BA705 coil
AC control

Rated voltage at 50/60, 60Hz		from	V	12
		to	V	600
Operating limits for 50/60Hz powered at 50Hz or 60Hz type	pick up	from	% Us	80
		to	% Us	110
	drop out	from	% Us	40
		to	% Us	55
Operating limits for 50/60Hz type when powered at 60Hz	pick up	from	% Us	85
		to	% Us	110
	drop out	from	% Us	40
		to	% Us	55
Consumption	50Hz	in-rush	VA	210
		holding	VA	18
	60Hz	in-rush	VA	252
		holding	VA	21.6
Dissipation	at 50Hz		W	6

Materials
Class F enamelled copper wire.

Special versions
For coils with non standard voltages, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

Spare parts for BF series contactors

DC coils



11 BA911...

Order code	Rated voltage	Qty per pkg	Wt
	[V]	n°	[kg]
For contactors BF00 D, BF09 D-BF38 D BF00 L, BF09 L-BF38 L			
No coil replacement for these contactors is possible.			
For BF50 C-BF110 C contactors.			
11 BA911 12	12VDC	1	0.380
11 BA911 24	24VDC	1	0.380
11 BA911 48	48VDC	1	0.380
11 BA911 60	60VDC	1	0.380
11 BA911 110	110VDC	1	0.380
11 BA911 125	125VDC	1	0.380
11 BA911 220	220VDC	1	0.380

Operational characteristics for BA911 coil
DC control

Rated voltage		from	V	12
		to	V	660
Operating limits	pick-up	from	% Us	80
		to	% Us	110
	drop-out	from	% Us	10
		to	% Us	25
Average dissipation (in-rush/holding) 20°C			W	15

Materials
Class F enamelled copper wire.

Special versions
For coils with non standard voltages, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

AC/DC coils



Coil



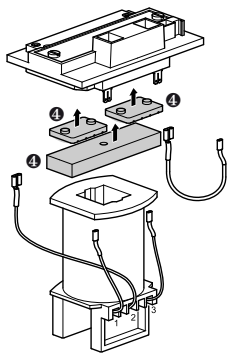
Bridge rectifier

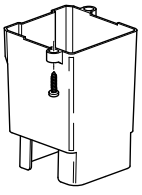


Coil protection



Coil assembly





Order code	Rated voltage AC 50/60 Hz and DC	Qty per pkg	Wt
	[V]	n°	[kg]
Coil for B115-B145-B180 contactors.			
11 BA11574 24	24VAC/DC	1	0.800
11 BA11574 48	48VAC/DC	1	0.800
11 BA11574 60	60VAC/DC	1	0.800
11 BA11574 110	110-125VAC/DC	1	0.800
11 BA11574 220	220-240VAC/DC	1	0.800
11 BA11574 380	380-415VAC/DC	1	0.800
11 BA11574 440	440-480VAC/DC	1	0.800
Coil for B250-B310-B400 contactors.			
11 BA1699 24	24VAC/DC	1	1.800
11 BA1699 48	48VAC/DC	1	1.800
11 BA1699 60	60VAC/DC	1	1.800
11 BA1699 110	110-125VAC/DC	1	1.800
11 BA1699 220	220-240VAC/DC	1	1.800
11 BA1699 380	380-415VAC/DC	1	1.800
11 BA1699 440	440-480VAC/DC	1	1.800
Coil for B500-B630-B630 1000 contactors.			
11 BA1800 48	48VAC/DC	1	3.400
11 BA1800 60	60VAC/DC	1	3.400
11 BA1800 110	110-125VAC/DC	1	3.400
11 BA1800 220	220-240VAC/DC	1	3.400
11 BA1800 380	380-415VAC/DC	1	3.400
11 BA1800 440	440-480VAC/DC	1	3.400
Coil for B1250-B1600 contactors.			
11 BA1800 110❶	110-125VAC❶	1	3.400
11 BA1800 220❶	220-240VAC❶	1	3.400

Order code	For contactor	Qty per pkg	Wt
		n°	[kg]
Bridge rectifier (Faston terminals).			
11 BA1575 1	B115-B145-B180	1	0.170
11 BA1700 1	B250-B310-B400	1	0.230
11 BA1799	B500-B630-B630 1000 B1250-B1600	1	0.520
Coil protection			
11 BA1553	B115-B145-B180	1	0.042
11 BA1678	B250-B310-B400	1	0.079
11 BA1803	B500-B630-B630 1000 B1250-B1600	1	0.164
Coil assembly (Coil, rectifier and coil protection).			
11 BA1546❷	B115-B145-B180	1	1.220
11 BA1671❷	B250-B310-B400	1	2.290
11 BA1796❸	B500-B630-B630 1000 B1250-B1600	1	4.650

❶ Available for AC supply only.

❷ Add the coil voltage digit. 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 BA1546 110 for B115-B180 contactor coil assembly suitable for 110-125VAC/DC supply.

❸ Add the coil voltage digit. Standard voltages are:
– AC/DC 48 / 60 / 110-125 indicate 110 / 220-240 indicate 220 / 380-415 indicate 380 / 440-480V indicate 440.
Example: 11 BA1796 110 for B500-B1600 contactor coil assembly suitable for 110-125VAC/DC supply.
For B1250 and B1600, add only 110 for 110-125VAC or 220 for 220-240VAC since these are the only standard voltages available.

❹ During coil replacement operations, always reinsert dampers (1 pair for B115-B180; 2 pairs for B250-B1600) and fixed magnetic core which one finds in the original coil assembly.

Operational characteristics
AC and DC control

For contactor type			B115 - B145 - B180
Supply voltage			AC and DC
Rated control voltage		V	24-480
Operating limits	pick-up	% Us	80-110
	drop-out	% Us	20-60
Consumption	in-rush	VA/W	300
	holding	VA/W	10
Dissipation		W	10

For contactor type			B250 - B310 - B400
Supply voltage			AC and DC
Rated control voltage		V	24-480
Operating limits	pick-up	% Us	80-110
	drop-out	% Us	20-60
Consumption	in-rush	VA/W	300
	holding	VA/W	10
Dissipation		W	10

For contactor type			B500 - B630 - B630 1000
Supply voltage			AC and DC
Rated control voltage		V	48-480
Operating limits	pick-up	% Us	80-110
	drop-out	% Us	20-60
Consumption	in-rush	VA/W	400
	holding	VA/W	18
Dissipation		W	18

For contactor type			B1250 - B1600
Supply voltage			in AC
Rated control voltage		V	110-240
Operating limits	pick-up	% Us	80-110
	drop-out	% Us	20-60
Consumption	in-rush	VA/W	800
	holding	VA/W	45
Dissipation		W	40

Operating limits for ambient temperature up to 40°C are 0.8 to 1.1 times rated voltage.
NOTE: For use at ambient temperature exceeding 55°C, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

Materials
Class F enamelled copper wire.

Coil assembly
Comprises the coil, bridge rectifier, fixed core, coil protection, cross piece and fixing screws.

Special versions
For coils with non standard voltages, contact our Customer Service (Tel. +39 035 4282422).

Spare parts for B series contactors

Main contacts for BF contactors



BFX99...



11 G274... - 11 G275... - 11 G276...
11 G475 - 11 G476

Order code	For contactor	Qty per pkg	Wt
		n°	[kg]
Main contacts 3 or 4 pole set complete with screws.			
BFX99 026T	BF26	1	0.038
BFX99 026F	BF26 T4	1	0.051
BFX99 032T	BF32	1	0.070
BFX99 038T	BF38	1	0.070
BFX99 038F	BF38 T4	1	0.093
11 G274	BF50	1	0.095
11 G274 4	BF50 40	1	0.127
11 G275	BF65	1	0.095
11 G275 4	BF65 40	1	0.127
11 G276	BF80	1	0.111
11 G276 4	BF80 40	1	0.148
11 G475	BF95	1	0.111
11 G476	BF110	1	0.111

Main contacts and arc chutes for B contactors



11 G380... - 11 G381... - 11 G382...
11 G383... - 11 G384... - 11 G385...
11 G525... - 11 G526... - 11 G537...



Arc chute

Order code	For contactor	Qty per pkg	Wt
		n°	[kg]
Main contacts 3 or 4 pole set complete with Allen screws and key for contact replacement.			
11 G380	B115	1	0.440
11 G380 4	B115 4	1	0.580
11 G381	B145	1	0.440
11 G381 4	B145 4	1	0.580
11 G382	B180	1	0.440
11 G382 4	B180 4	1	0.580
11 G383	B250	1	0.770
11 G383 4	B250 4	1	1.030
11 G385	B310	1	0.770
11 G385 4	B310 4	1	1.030
11 G384	B400	1	0.770
11 G384 4	B400 4	1	1.030
11 G525	B500	1	2.520
11 G525 4	B500 4	1	3.360
11 G526	B630	1	2.660
11 G526 4	B630 4	1	3.550
11 G537	B630 1000	1	2.660
11 G537 4	B630 1000 4	1	3.550
11 G538	B1250 24	1	5,040
11 G538 4	B1250 4 24	1	6,720
11 G539	B1600 24	1	5,320
11 G539 4	B1600 4 24	1	7,100
Arc chutes.			
11 BA1588	B115-B145-B180	1	0.755
11 BA1589	B115 4-B145 4-B180 4	1	1.000
11 BA1713	B250-B310-B400	1	1.210
11 BA1714	B250 4-B310 4-B400 4	1	1.600
11 BA1838	B500-B630-B630 1000	1	1.910
11 BA1839	B500 4-B630 4-B630 1000 4	1	2.490

Special versions
For non standard spare contact configurations, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).

NOTE: For B1250 and B1600 contactor spares, contact our Customer Service (Tel. +39 035 4282422; email: service@LovatoElectric.com).