

MOTOR STARTING SOLUTIONS



 **Lovato**
electric

ENERGY AND AUTOMATION

MOTOR STARTING SOLUTIONS



LOVATO Electric products are suitable for new motors with high IE3 efficiency values.

Motor power

400V

kW
HP
A (AC3)

0.37	0.75
0.5	1
1.1	1.9

MOTOR PROTECTION CIRCUIT BREAKER WITH CONTACTOR

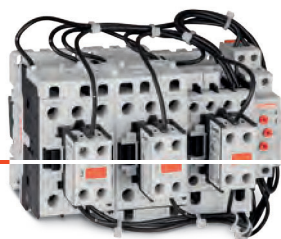


Motor protection circuit breaker ■	SM1P0160	SM1P0250
Thermal trip adjustment range ▲ [A]	1...1.6	1.6...2.5
Icu 400V [kA]	100	100
Rigid circuit breaker - contactor connection	SM1X3040P	SM1X3040P
AC contactor	11BG061A2	11 BG061A2

CONTACTOR WITH THERMAL RELAY

Fuse holder	FB01F3P	FB01 F 3P
Backup fuse aM [A]	2 (10X38)	4 (10X38)
AC contactor ●	11BG061A2	11BG061A2
Thermal overload relay	11RF91V5	11RF92V3
Thermal trip adjustment range ▲ [A]	0.9...1.5	1.4...2.3
Set of links for direct thermal overload relay mounting on contactor	---	---

ASSEMBLED STAR-DELTA STARTER (OPEN FRAME)



Fused holder (switch disconnecter with fuse holders)	---	---
Backup fuse aM [A]	---	---
Star-delta starter	---	---
Thermal overload relay	---	---
Thermal trip adjustment range ▲ [A]	---	---

STAR-DELTA STARTER COMPONENTS (TO BE CUSTOMER ASSEMBLED)



Fuse holder	---	---
Backup fuse aM [A]	---	---
AC line contactor ●	---	---
AC delta contactor ●	---	---
AC star contactor ●	---	---
Thermal overload relay ◆★	---	---
Thermal trip adjustment range ▲ [A]	---	---
Time relay	---	---
Add-on auxiliary contact blocks (line contactor)	---	---
Add-on auxiliary contact blocks (delta contactor)	---	---
Add-on auxiliary contact blocks (star contactor)	---	---
Rigid connections	---	---

SOFT STARTER



Motor protection circuit breakers	---	---
Fused holder (switch disconnecter with fuse holders)	---	---
High speed fuse [A]	---	---
AC line contactor ●	---	---
Soft starter	---	---

VARIABLE SPEED DRIVE

Fused holder (switch disconnecter with fuse holders)	FB01F3P	FB01F3P
Backup fuse aM [A]	2 (10X38)	2 (10X38)
Variable speed drive	VLB30004A480	VLB30007A480

▲ Recommended range. For other ranges, see the general catalogue.

◆ RF9, RF82 and RF110 are with manual resetting. RF38, RF200 and RF420 are with manual and automatic resetting.

● For contactor with DC coil see general catalogue.

★ The range of the thermal overload relay must be set to a value equal to 58% of the rated motor current.

■ Up to 40A motor protection circuit breakers with push button control (SM1P) are suggested. Alternatively, there are available models with rotary knob (SM1R) that provide a higher level of interruption. See general catalogue.



1.5	2.2	3	4	5.5	7.5	11	15
2	3	4	5.5	7.5	10	15	20
3.6	4.9	6.5	8.5	11.5	15.5	22	29

SM1P0400	SM1P0650	SM1P1000	SM1P1000	SM1P1400	SM1P1800	SM1P2300	SM1P3200
2.5...4	4...6.5	6.3...10	6.3...10	9...14	13...18	17...23	24...32
100	100	100	100	25	25	15	10
SM1X3040P	SM1X3040P	SM1X3141P	SM1X3141P	SM1X3141P	SM1X3141P	SM1X3141P	SM1X3241P
11 BG06 1A ②	11BG06 1A ②	BF09 1A ②	BF09 1A ②	BF12 1A ②	BF18 1A ②	BF25 1A ②	BF3200A ②

FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB02A3P
6 (10X38)	8 (10X38)	8 (10X38)	10 (10X38)	16 (10X38)	20 (10X38)	25 (10X38)	32 (14X51)
11BG06 1A ②	11BG06 1A ②	BF09 1A ②	BF09 1A ②	BF12 1A ②	BF18 1A ②	BF25 1A ②	BF3200A ②
11RF95	11RF975	RF381000	RF381000	RF381400	RF381800	RF382300	RF383200
3...5	4.5...7.5	6.3...10	6.3...10	9...14	13...18	17...23	24...32
--	--	--	--	--	--	--	--

--	--	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB02A3P
--	--	8 (10X38)	10 (10X38)	16 (10X38)	20 (10X38)	25 (10X38)	32 (14X51)
--	--	BFA00970 ②	BFA00970 ②	BFA00970 ②	BFA00970 ②	BFA01270 ②	BFA01870 ②
--	--	RF380400	RF380650	RF381000	RF381000	RF381400	RF381800
--	--	2.5...4	4...6.5	6.3...10	6.3...10	9...14	13...18

--	--	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB02A3P
--	--	8 (10X38)	10 (10X38)	16 (10X38)	20 (10X38)	25 (10X38)	32 (14X51)
--	--	BF0910A ②	BF0910A ②	BF0910A ②	BF0910A ②	BF1210A ②	BF1810A ②
--	--	BF0901A ②	BF0901A ②	BF0901A ②	BF0901A ②	BF1201A ②	BF1801A ②
--	--	BF0910A ②	BF0910A ②	BF0910A ②	BF0910A ②	BF0910A ②	BF1210A ②
--	--	RF380400	RF380650	RF381000	RF381000	RF381400	RF381800
--	--	2.5...4	4...6.5	6.3...10	6.3...10	9...14	13...18
--	--	TMST ④	TMST ④	TMST ④	TMST ④	TMST ④	TMST ④
--	--	BFX1020	BFX1020	BFX1020	BFX1020	BFX1020	BFX1020
--	--	--	--	--	--	--	--
--	--	BFX1011	BFX1011	BFX1011	BFX1011	BFX1011	BFX1011
--	--	BFX3131	BFX3131	BFX3131	BFX3131	BFX3131	BFX3131

SM1R0400	SM1R0650	SM1R1000	SM1R1000	SM1R1400	SM1R1800	SM1R2300	SM1R3200
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
11BG06...A...	11BG06...A...	BF09 1A ②	BF09 1A ②	BF12 1A ②	BF18 1A ②	BF25 1A ②	BF3200A ②
ADXNB006 ①	ADXNB006 ①	ADXNB012 ①	ADXNB012 ①	ADXNB012 ①	ADXNB018 ①	ADXNB025 ①	ADXNB030 ①

FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01F3P	FB01 F 3P	FB02A3P
4 (10X38)	6 (10X38)	8 (10X38)	10 (10X38)	16 (10X38)	20 (10X38)	25 (10X38)	32 (14X51)
VLB30015A480	VLB30022A480	VLB30040A480	VLB30040A480	VLB30055A480	VLB30075A480	VLB30110A480	VLB30150A480

① Replace with 10 to obtain contactor with 1 normally open auxiliary contact NO or 01 to obtain contactor with 1 normally closed auxiliary contact NC.
E.g.: 11BG0610A**②**, contactor with 1 NO auxiliary contact.

② Complete order code with the coil voltage digit if 50/60Hz or the coil voltage digit followed by 60 if 60Hz.
Standard voltages are as follow:
- 50/60Hz 024 - 048 - 110 - 230 - 400VAC
- 60Hz 024 60 - 048 60 - 120 60 - 220 60 - 230 60 - 460 60 - 575 60VAC
E.g.: 11BG0610A230 or 11BG0610A46060.

③ The coil of the contactor can be powered indifferently in AC or DC.
Complete the order code with the digit of the coil voltage.
Standard voltages are as follow: 24 - 48 - 60 - 110 - 125 - 220 - 240 - 380 - 415.
For coils: 110...125V indicate 110, 220...240V indicate 220, 380...415V indicate 380, 440...480V indicate 440.
E.g.: 11B31000220 for contactor with 220...240VAC/DC coil.



18.5	22	30	37	45	55	75	90
25	30	40	50	60	75	100	125
35	41	55	66	80	97	132	160

SM1P4000	SM2R5000	SM2R6300	SM3R7500	SM3R9000	SM3R9900	---	---
30...40	34...50	45...63	55...75	70...90	80...100	---	---
10	50	50	50	50	50	---	---
SM1X3241P	---	---	---	---	---	---	---
BF3800A ^②	BF5000A ^②	BF6500A ^②	BF8000A ^②	BF8000A ^②	BF11500A ^②	BF15000A ^②	BF16000E ^⑩

FB02A3P	FB02A3P	FB03A3P	FB03A3P	FB03A3P	FB03A3P	GE0161N ^⑤	GE0161N ^⑤
40 (14X51)	50 (14X51)	63 (22X58)	80 (22X58)	80 (22X58)	100 (22X58)	160 (NH)	160 (NH)
BF3800A ^②	BF5000A ^②	BF6500A ^②	BF8000A ^②	BF8000A ^②	BF11500A ^②	BF15000A ^②	BF16000E ^⑩
RF383800	RF825000	RF826500	RF828200	RF828200	RF110110	RF200150	RF200200
32...38	35...50	46...65	60...82	60...82	90...110	90...150	120...200
---	---	---	---	---	---	---	RFX20035

FB02A3P	FB02A3P	FB03A3P	FB03A3P	FB03A3P	FB03A3P	GE0161N ^⑤	GE0161N ^⑤
40 (14X51)	50 (14X51)	63 (22X58)	80 (22X58)	80 (22X58)	100 (22X58)	160 (NH)	160 (NH)
BFA02570 ^②	BFA02670 ^②	BFA03870 ^②	BFA05070 ^②	BFA05070 ^②	BFA06570 ^②	BFA08070 ^②	BFA09570 ^②
RF382300	RF383200	RF383800	RF825000	RF825000	RF826500	RF828200	RF110110
17...23	24...32	32...38	35...50	35...50	46...65	60...82	90...110

FB02A3P	FB02A3P	FB03A3P	FB03A3P	FB03A3P	FB03A3P	GE0161N ^⑤	GE0161N ^⑤
40 (14X51)	50 (14X51)	63 (22X58)	80 (22X58)	100 (22X58)	100 (22X58)	160 (NH)	160 (NH)
BF2510A ^②	BF2600A ^②	BF3800A ^②	BF5000A ^②	BF5000A ^②	BF6500A ^②	BF8000A ^②	BF95 00A ^②
BF2501A ^②	BF2600A ^②	BF3800A ^②	BF5000A ^②	BF5000A ^②	BF6500A ^②	BF8000A ^②	BF95 00A ^②
BF1810A ^②	BF1810A ^②	BF2510A ^②	BF3200A ^②	BF3200A ^②	BF3200A ^②	BF5000A ^②	BF65 00A ^②
RF382300	RF383200	RF383800	RF825000	RF825000	RF826500	RF828200	RF110110
17...23	24...32	32...38	35...50	35...50	46...65	60...82	90...110
TMST ^④	TMST ^④	TMST ^④	TMST ^④	TMST ^④	TMST ^④	TMST ^④	TMST ^④
BFX1020	BFX1020	BFX1020	BFX1020	BFX1020	BFX1020	BFX1020	BFX10 20
---	BFX1011	BFX1011	BFX1011	BFX1011	BFX1011	BFX1011	BFX10 11
BFX1011	BFX1011	BFX1011	BFX1011	BFX1011	BFX1011	BFX1011	BFX10 11
BFX3131	BFX3131	BFX3232	BFX3332	BFX3332	BFX3332	BFX3331	BFX3331

SM1R4000	SM2R5000	---	---	---	---	---	---
---	---	GE0161N ^⑤	GE0250N ^⑥	GE0250N ^⑥	GE0250N ^⑥	GE0400N ^⑥	GE0630N ^⑦
---	---	160 (NH)	180 (NH)	200 (NH)	250 (NH)	315 (NH)	500 (NH)
BF3800A ^②	BF5000A ^②	BF6500A ^②	BF8000A ^②	BF8000A ^②	BF11500A ^②	BF15000 ^②	BF16000E ^⑩
ADXNB038 ^⑪	ADXNB045	ADXL0060600	ADXL0075600	ADXL0085600	ADXL0115600	ADXL0135600	ADXL0162600

FB02A3P	FB02A3P	FB03A3P	FB03A3P	FB03A3P	FB03 A 3P	GE0161N ^⑤	GE0161N ^⑤
40 (14X51)	50 (14X51)	63 (22X58)	80 (22X58)	80 (22X58)	100 (22X58)	160 (NH)	160 (NH)
VLB30185A480	VLB30220A480	VLB30300A480	VLB30370A480XX ^⑧	VLB30450A480XX ^⑧	VLB30550A480XX ^⑧	VLB30750A480XX ^⑧	VLB30900A480XX ^⑧

④ TMST for auxiliary supply 24...240VAC; TMSTA440 or auxiliary supply 380...440VAC.

⑤ Order to complete: GEX66N door coupling handle; GEX7536N shaft extension.

⑥ Order to complete: GEX67N door coupling handle; GEX7535N shaft extension.

⑦ Order to complete: GEX68N door coupling handle; GEX7535N shaft extension.

⑧ The code refers only at power unit.

Complete with code VLBXL06 logic unit (Modbus RTU) and keypad code VLBXC01.

⑨ Consult Technical Support for information

(tel. +39 035 4282422; e-mail: service@LovatoElectric.com).

⑩ The contactor coil is controlled electronically; it can have either an AC or a DC supply and has a wide operating range. Complete the order code with coil voltage digit.

Standard voltages are:

- AC/DC 024=24...60VAC/20...60VDC; 110=60...130VAC/DC; 230=100...250VAC/DC; 400=250...500V.



MOTOR STARTING CONFIGURATOR

110	132	160
150	180	220
195	230	280

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---	---	---
---	---	---

BF19500E ⑩	BF23000E ⑩	11B31000 ③
GE0250N ⑥	GE0250N ⑥	GE0400N ⑥
200 (NH)	250 (NH)	315 (NH)
BF19500E ⑩	BF23000E ⑩	11B31000 ③
RF200200	RF420300	RF420300
120...200	180...300	180...300
RFX42035	RFX42035	11G376

GE0250N ⑥	GE0250N ⑥	---
200 (NH)	250 (NH)	---
BFA11570 ②	BFA15070 ②	---
RF200125	RF200150	---
75...125	90...150	---

GE0250N ⑥	GE0250N ⑥	GE0400N ⑥
200 (NH)	250 (NH)	315 (NH)
BF11500A ②	BF15000A ②	BF19500E ⑩
BF11500A ②	BF15000A ②	BF19500E ⑩
BF8000A ②	BF8000A ②	BF11500A ②
RF200125	RF200150	RF200200
75...125	90...150	120...200
TMST ④	TMST ④	TMST ④
BFX1020	BFX1020	2 x BFX10C10
BFX1011	BFX1011	BFX10C10 + BFX10C01
BFX1011	BFX1011	BFX1011
BFX3432	BFX3432	---

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GE0630N ⑦	GE0630N ⑦	GE0800N ⑦
500 (NH)	630 (NH)	700 (NH)
BF19500E ⑩	BF23000E ⑩	11B31000 ③
ADXL0195600	ADXL0250600	ADXL0320600

GE0250N ⑥	GE0250N ⑥	GE0400N ⑥
200 (NH)	250 (NH)	315 (NH)
0XX ⑧	VLB31100A480XX ⑧	VLB31100A480XX ⑧ ⑨

⑩ ADXNB: basic version with potentiometers. Available version with NFC (ADXNF programmable via smartphone) and advanced (ADXNP with potentiometers, NFC, integrated thermal protection, optical port and optional RS485 communication module).

Set the motor data.

Select the type of starter: direct, reversing, star-delta, soft starters, variable speed.

Select the combination of command components and protection.

The configurator will guide you to the choice of components and accessories, and will generate a detailed list of codes to be ordered.

You can connect to the web site to consult the data sheets for each component. Immediately transmit list of order codes.

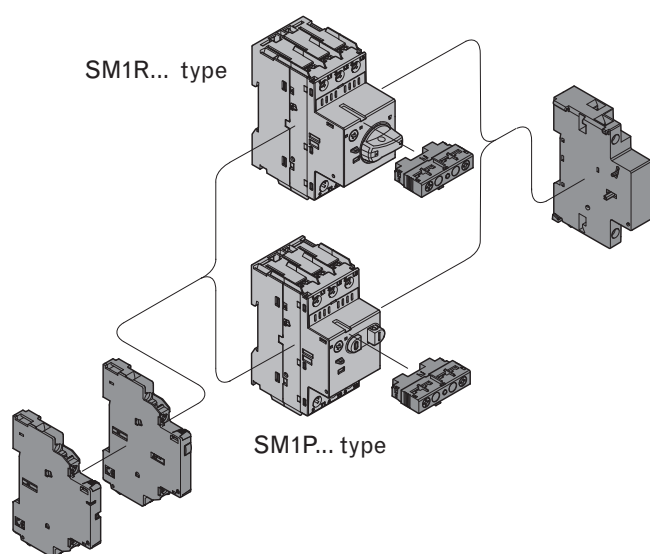


MOTOR PROTECTION CIRCUIT BREAKERS

SM1...

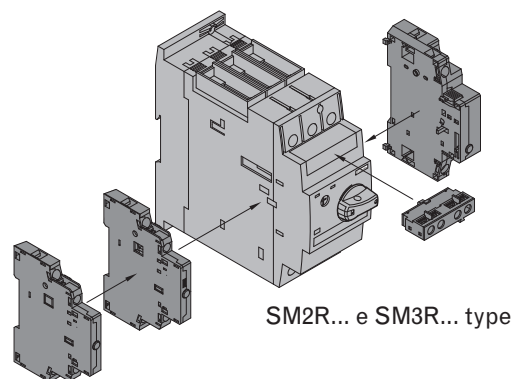
Order code	Characteristics
Add-on auxiliary contacts.	
SM1X1120	Front mount 2NO
SM1X1111	Front mount 1NO+1NC
SM1X1220	Side mount 2NO
SM1X1211	Side mount 1NO+1NC
SM1X1202	Side mount 2NC
SM1X1311	Side mount. Contacts for thermal and magnetic tripping indication 1NO+1NC
SM1X1311M	Side mount. Contacts for magnetic tripping indication 1NO+1NC
Undervoltage trip releases.	
SM1X14110	110VAC 50Hz / 120VAC 60Hz
SM1X14230	230VAC 50Hz
SM1X14400	400VAC 50Hz / 440VAC 60Hz
SM1X15110R❶	With early-make contacts 110VAC 50Hz / 120VAC 60Hz
SM1X15230R❶	With early-make contacts 230VAC 50Hz
SM1X15400R❶	With early-make contacts 400VAC 50Hz
Shunt trip releases.	
SM1X16024	24VAC 50/60Hz
SM1X16110	110VAC 50/60Hz
SM1X16230	230VAC 50/60Hz
SM1X16400	400VAC 50/60Hz
Rigid SM1 breaker - contactor connections.	
SM1X3040P	For motor protection circuit breaker SM1P... with BG... mini-contactors
SM1X3141P	For motor protection circuit breaker SM1P... with BF09...25A contactors
SM1X3241P	For motor protection circuit breaker SM1P... with BF26...38A contactors

❶ Complete the order code by indicating P for mounting on SM1P... motor protection circuit breakers, or R for SM1R... motor protection circuit breakers.



SM2... e SM3...

Order code	Characteristics
Add-on auxiliary contacts.	
SM2X1120	Front mount 2NO
SM2X1111	Front mount 1NO+1NC
SM2X1102	Front mount 2NC
SM2X1220	Side mount 2NO
SM2X1211	Side mount 2NC
SM2X1202	Side mount 1NO+1NC
SM2X1311	Side mount. Contacts for thermal and magnetic tripping indication 1NO+1NC
Undervoltage trip releases.	
SM2X14230	230VAC 50/60Hz
SM2X14400	400VAC 50/60Hz
SM2X14400	440VAC 50/60Hz
Shunt trip releases.	
SM2X16024	24VAC 50/60Hz
SM2X16110	110VAC 50/60Hz
SM2X16230	230VAC 50/60Hz
SM2X16400	400VAC 50/60Hz
SM2X16440	440VAC 50/60Hz



SOFT STARTER

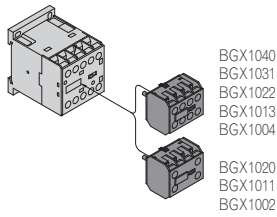
Order code	Characteristics
CX01	USB connection dongle PC÷ADXL/ADXNP for programming, data download, diagnostics and firmware update with Xpress software
CX02	Wi-Fi connection dongle PC÷ADXL/ADXNP for programming, data download, diagnostics with Xpress software and App LOVATO SAM1
CX04	RS485 communication module for ADXNP, Modbus-RTU protocol. Auxiliary power supply 24VAC/DC
EXCRDU1	Remote display unit for monitoring and control of max 32 drives type ADXL or VLB3, display LCD touch screen, IP65 and Type 4X, 3m RS485 long cable included, power supply 100...240VAC/110...250VDC
EXC1042	RS485 communication card RS485 for ADXL
EXP8003	DIN rail mount kit for ADXL0018600... ADXL0115600
EXP8007	Fan for soft starters type ADXN for the increasing of number of operations per hour (ADXN size 38 and 45A already have a built-in fan as standard)
EXP8004	Fan for ADXL0018600...ADXL0115600 (codes ADXL0075600...ADXL0115600 max. of two EXP8004 fans)
SM1X3150R	Rigid connection for soft starters type ADXN from 6 to 38 A for the direct mounting to a motor protection circuit breaker type SM1R



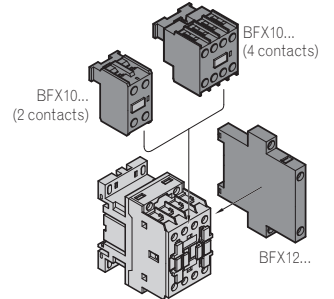
CONTACTORS

Order code	Characteristics
For BG... contactors. Auxiliary contacts with front mounting. Screw terminals.	
11 BGX1002	2NC
11 BGX1011	1NO + 1NC
11 BGX1020	2NO
11 BGX1004	4NC
11 BGX1013	1NO + 3NC
11 BGX1022	2NO + 2NC
11 BGX1031	3NO + 1NC
11 BGX1040	4NO
For BF09...BF150... contactors. Auxiliary contacts with front mounting. Screw terminals.	
BFX1002	2NC
BFX1011	1NO + 1NC
BFX1020	2NO
BFX1004	4NC
BFX1013	1NO + 3NC
BFX1022	2NO + 2NC
BFX1031	3NO + 1NC
BFX1040	4NO
BFX101111	1NO+1NC and 1EM+1LB
For BF09...BF150... contactors. Auxiliary contacts with side mounting. Screw terminals.	
BFX1202	2NC
BFX1211	1NO+1NC
BFX1220	2NO
For BF160...BF230... contactors. Auxiliary contacts with front mounting. Screw terminals.	
BFX10C10	1NO
BFX10C01	1NC
For BF160...BF230... contactors. Auxiliary contacts with side mounting. Screw terminals.	
BFX12C02	2NC
BFX12C11	1NO + 1NC
BFX12C20	2NO
For 11B... contactors. Auxiliary contacts with side mounting. Faston terminals.	
11G350	2NO+1NC or 1NO+2NC reversible
11G354	1NO+1NC

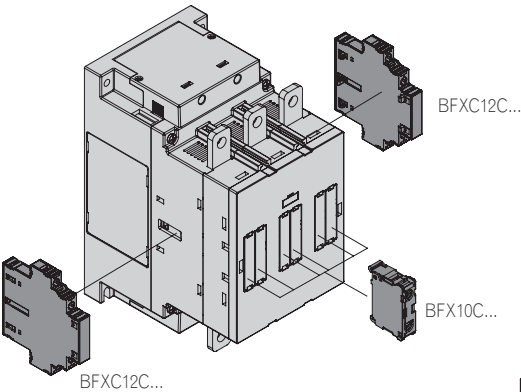
BG... contactors



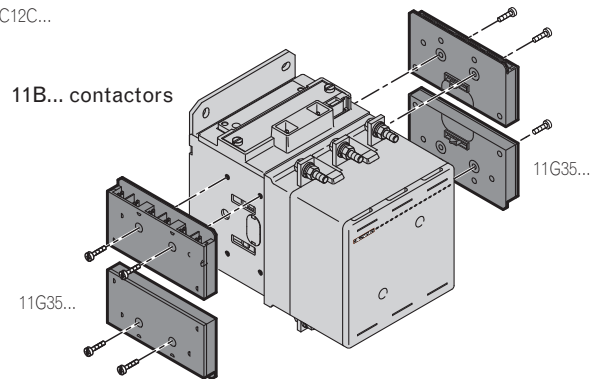
BF09...BF150...contactors



BF160...BF230... contactors



11B... contactors



VARIABLE SPEED DRIVES

Order code	Characteristics
Modules.	
VLBXC00	Blanking cover
VLBXC01	Display and keypad
VLBXC02	USB communication module
VLBXC03	Wi-Fi communication module
VLBXSM	Safe Torque Off (STO) module
Logic units.	
VLBXL01	Logic unit with CANopen
VLBXL02	Logic unit with ProfiBUS
VLBXL03	Logic unit with ProfiNET
VLBXL04	Logic unit with Ethercat
VLBXL06	Logic unit with Modbus RTU
Remote keypad.	
EXCRDU1	Remote keypad, LCD graphic touchscreen display, for monitoring and control of max 32 drives type ADXL or VLB3, display LCD touch screen, IP65 and Type 4X, 3m RS485 cable included, supply 100...240VAC/110...250VDC
VLBXP01	Kit for door-mounting of the keypad vlbxc01 for vlb3 type. cable included, 3m length

Order code	Characteristics
Braking resistors.	
VLBXR390	390Ω, 100W per VLB3 0,4...0,75kW
VLBXR180	180Ω, 200W for VLB3 1,5...2,2kW
VLBXR047	47Ω, 200W for VLB3 4...5,5kW
VLBXR027	27Ω, 200W for VLB3 7,5...11kW
VLBXR018	18Ω, 800W for VLB3 15kW
VLBXR015	15Ω, 800W for VLB3 18,5...22kW
VLBXR007	7,5Ω, 1900W for VLB3 30...75kW
Three-phase inductances.	
VLBXL590	50A 0,59mH for VLB3 22...30kW
VLBXL370	80A 0,37mH for VLB3 37kW
VLBXL330	90A 0,33mH for VLB3 45kW
VLBXL300	100A 0,30mH for VLB3 55kW
VLBXL190	160A 0,19mH for VLB3 75kW
VLBXL140	200A 0,14mH for VLB3 90...110kW
Three-phase motor side inductances.	
VLXM012	12,5A 1mH for VLB3 0,4...4kW
VLXM025	25A 0,6mH for VLB3 5,5...11kW
VLXM050	50A 0,2mH for VLB3 15...22kW
VLXM100	100A 0,15mH for VLB3 30...45kW
VLXM150	150A 0,08mH for VLB3 55...75kW
VLXM300	300A 0,04mH for VLB3 90...110kW

MOTOR STARTING SOLUTIONS



ENERGY AND AUTOMATION

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LOVATO ELECTRIC S.P.A.

Via Don E. Mazza, 12
24020 Gorle (Bergamo)

tel. +39 035 4282111
info@LovatoElectric.com

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