



Contactors for wind energy applications





Three-pole contactors with AC/DC control circuit





B115-B180

B250-B400



B500-B630

B630 1000



Main auxiliary contacts and accessories



11 G350 - 11 G354



11 G527 - 11 G529

Order code	Operating current			
AC/DC coil	lth (AC1) ≤40°C ≤55°C ≤70°C			le (AC3) 440VAC at ≤55°C
	[A]	[A]	[A]	[A]
11 B115L 0000	160	150	110	110
11 B145L 0000	250	235	190	150
11 B180L 0000	275	250	200	185
11 B250L 0000	350	300	250	265
11 B310 0000	450	370	300	320
11 B400L 0000	550	430	360	420
11 B500L 0000	700	550	500	520
11 B630L 0000	800	640	540	630
11 B630 1000 00 00	100	850	700	For AC1 duty only
11 B1250 24@@	1250	1050	880	For AC1 duty only
11 B1600 24@@	1600	1360	1120	For AC1 duty only

- 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) / 200 240 (indicate 200) / 200 241 (indic
 - 220-240 (indicate 220) / 380-415 (indicate 380) / 440-480V (indicate 440). Example: 11 B630 1000 00 110 for contactor B630 1000, 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.
- 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 2N0+4NC auxiliary contacts and 110-125VAC 50/60Hz coil. 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-
 - AC 50/60Hz 48 / 110-125 indicate 110 / 220-240 indicate 220 / 38 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
- 220-220XC/DC con and mechanical latch powered 220-240XC. **9** G495 mechanical latch cannot be mounted.

Order code Characteristics Max qty per contactor n° Faston terminals Auxiliary contacts for side mounting 11 G3500 2NO+1NC or 1NO+2NC 40 reversible 11 G354@ 1NO+1NC 46 Mechanical interlock 11 G355@@ Side by side 1 11 G356 10 One on top of other 6 Power terminal protection 11 G360® For contactor B115 6 11 G3619 For contactors 6 B145-B180 11 G363® For contactors 6 B250-B310-B400 11 G527 For contactor B500 2 11 G529 For contactor B630 2 Only one piece can be mounted on B1250 or B1600 type.

Not suitable for B1250 and B1600.

- For use with B630 1000, contact our Customer Service
- (Tel. +39 035 4282422; email: service@LovatoElectric.com). To interlock two contactors B1250 or B1600, it is imperative to use two
- Provided for one pole terminal only. Example: For three-pole contactors,
- 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.

General characteristics

There has been worldwide growth in using all renewable energy sources in recent years. One of these sources is the wind which is converted into a useful form of energy by using wind tribunes to produce electricity. The development of ever more reliable and safe wind turbines has been addressed by European and international standards IEC/EN 61400-1, that require only a few turbines can be disconnected from the system in presence of short-circuit or undervoltage conditions. Contactors equipped with mechanical latch are ideal for wind energy applications to ensure the connection is maintained in those conditions. The use of these contactors provide for:

- Utmost safe operation
- Total insensitivity to voltage loss or drops
- Elimination of risks for coil overheating and burning
 Energy saving.

Operational characteristics of mechanical latch

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			

Operational characteristics of auxiliary contacts

Туре	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 m with 1 or 2 cables	mm ²	2.5	
	AWG	n°	14
IEC/EN 60947-5-1 designation		AC	A600
		DC	P600
Mechanical life (in millions)		cycles	5

Reference standards

For contactors Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1, UL508, CSA C22.2 n°14. For auxiliary contacts and accessories Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA c22.2 n° 14.

Other contactor ratings and accessories

Consult our general catalogue for full details and technical characteristics about contactors and accessories.

PD66 GB 05 10

