

# BL 30 EB Brushless DC motor 2-4 Wire

11 Watt

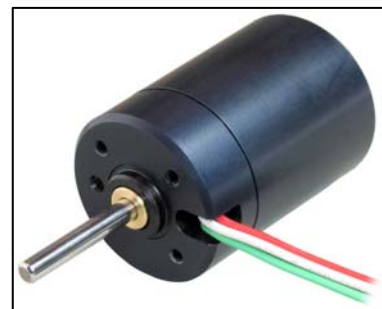


### Features:

- Long life (20.000 hours)
- Electronics on board
- 2 or 4-wire concept
- Integrated speed control loop
- IP54 protection class
- Reverse voltage protection

### Options:

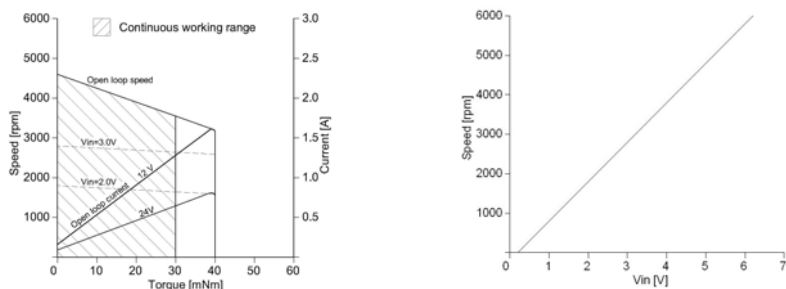
- Custom leads/ connectors
- Alternate flange connections
- 4-wire version with tachometer output (18 pulses per revolution) for speed monitoring
- Special shafts



Motor order number	CW	8204 045 15211	8204 045 15221	
	CCW	8204 045 15461	8204 045 15471	
Nominal voltage		12	24	V
Voltage range		10...18	10...28	V
Max. output power		11	11	W
No load speed		4600	4600	rpm
No load current		160	93	mA
Min. starting torque		32	34	mNm
Nominal torque		30	30	mNm
Nominal speed		3500	3500	rpm
Nominal current		1350	650	mA
Max. current limit		1600	800	mA
Max.continuous torque		40	40	mNm
Torque constant		35	70	mNm/A
Rotor inertia		4.7 E-6	4.7 E-6	kgm <sup>2</sup>
Mechanical time constant		12	9	ms
Thermal Resistance Housing-Ambient		14	14	°C/W
Speed output signal		18	18	PPR
Mass of motor		113	113	grams

Notes: Values valid for nominal voltage and T amb = 22 °C

Performance curve of 12 -24 V versions	V in versus speed	Connections
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Version	Connection	Color	Size
2-wire	Supply	Red	AWG26
	Common	Black	AWG26
4-wire	Supply	Red	AWG26
	Common	Black	AWG26
	Speed set point (Vin)	White	AWG26
	Speed output (FG)	Green	AWG26

### Dimensional drawing

