

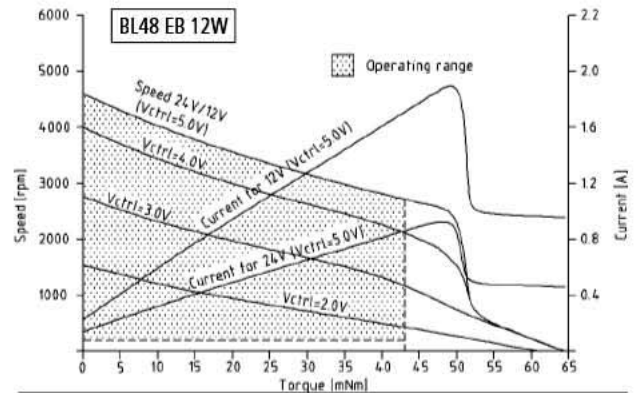
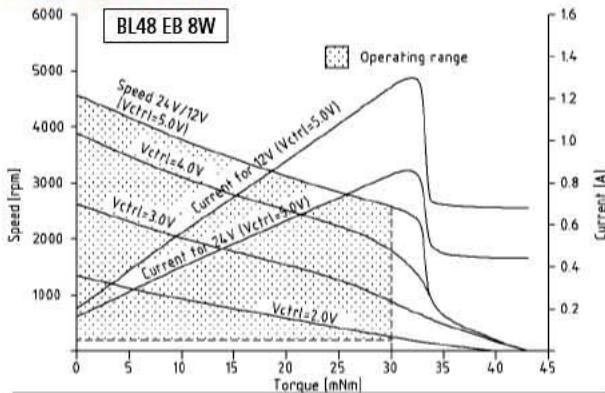
**BL48 EB Series 8W and 12W BLDC Motors 4 Wire**

**SPECIFICATIONS**

| Model                                | CW  | 4322 016 +                               | 48007            | 48017   | 48027          | 48037   |
|--------------------------------------|-----|------------------------------------------|------------------|---------|----------------|---------|
|                                      | CCW | 4322 016 +                               | 48003            | 48013   | 48023          | 48033   |
| Housing Length, L                    |     | mm                                       | 30               |         | 36.75          |         |
| Nominal Voltage                      |     | V                                        | 12               | 24      | 12             | 24      |
| Voltage Range                        |     | V                                        | 10 - 15          | 14 - 28 | 10 - 15        | 14 - 28 |
| Max. Output Power <sup>1</sup>       |     | W                                        | 8                |         | 12             |         |
| Nominal Torque                       |     | mNm (oz-in)                              | 22 (3.12)        |         | 30 (4.25)      |         |
| Max. Continuous Torque <sup>1</sup>  |     | mNm (oz-in)                              | 30 (4.25)        |         | 43 (6.09)      |         |
| Nominal Speed                        |     | RPM                                      | 3000             |         | 3200           |         |
| No-Load Speed                        |     | RPM                                      | 4550             |         | 4600           |         |
| Min. Adjustable Speed                |     | RPM                                      | 200              |         |                |         |
| Nominal Current                      |     | A                                        | 0.98             | 0.5     | 1.28           | 0.66    |
| Max. Continuous Current <sup>1</sup> |     | A                                        | 1.47             | 0.74    | 2.13           | 1.04    |
| No-Load Current                      |     | mA                                       | 205              | 125     | 230            | 140     |
| Rotor Inertia                        |     | kgm <sup>2</sup> (oz-in-s <sup>2</sup> ) | 22E-6 (3.1E-3)   |         | 31E-6 (4.4E-3) |         |
| Mechanical Time Constant             |     | ms                                       | 65               | 45      | 51             | 41      |
| Thermal Resistance Winding-Housing   |     | °C/W                                     | 2                |         |                |         |
| Thermal Resistance Housing-Ambient   |     | °C/W                                     | 8                |         |                |         |
| Weight                               |     | g (oz)                                   | 195 (6.88)       |         | 250 (8.82)     |         |
| Protection                           |     | -                                        | IP30             |         |                |         |
| Gearbox (option)                     |     | -                                        | P42A, S64A, S69A |         |                |         |

Notes: Values valid for nominal voltage and T<sub>amb</sub> = 22 °C  
 1) Motor mounted to heatsink; max. flange temp = 85 °C

**PERFORMANCE**



**DIMENSIONS**

