# Brushless DC Motor



## 80BL Series

### General Specifications

| | |
|---|---|
| Winding Type | Star |
| Hall Effect Angle | 120°C Electrical Angle |
| Insulation Class | B |
| Ambient Temperature Range | -20°C ~ +50°C |
| Insulation Resistance | 100 MΩ Min. 500 VDC |
| Dielectric Strength | 1000 VAC 1 minute |

***Customized solutions on request.***

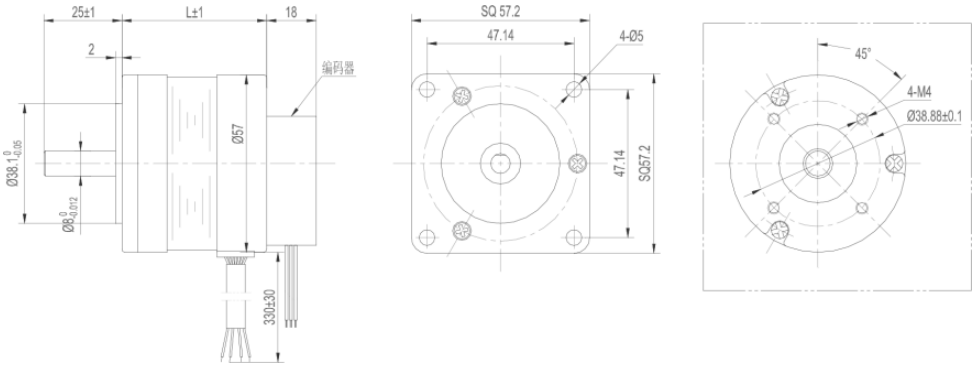
Hetai Motor

### Electrical Specifications

| Model | | 80BL01 | 80BL02 | 80BL03 |
|---|---|---|---|---|
| Number of Poles | | 4 | 4 | 4 |
| Number of Phases | | 3 | 3 | 3 |
| Rated Voltage | *VDC* | 48 | 310 | 310 |
| Rated Speed | *RPM* | 3000 | 3000 | 3000 |
| Rated Torque | *Nm* | 0.7 | 1.1 | 1.6 |
| Rated Current | *A* | 8.5 | 1.9 | 2.2 |
| Output Power | *W* | 220 | 350 | 500 |
| Peak Torque | *Nm* | 2.45 | 3.5 | 6.6 |
| Peak Current | *A* | 25 | 6.5 | 7 |
| Torque Constant | *Nm/A* | 0.115 | 0.741 | 0.74 |
| Back EMF | *V/KRPM* | 1.2 | 77.5 | 77.5 |
| Body Length | *mm* | 111 | 131 | 161 |
| Mass | *kg* | 3 | 4.5 | 6 |

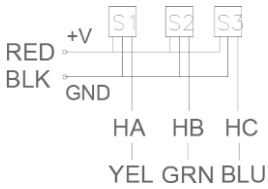
Caution: Peak Torque is provided for the purpose of performance calculations only.
Operating near, or at this condition can result in motor damage.

### Mechanical Dimensions




### Connection diagram

Hall Sensor Cable




Wiring Cable




Note: Hall Sensor Power Supply voltage +5 to +20 VDC



promoco
www.promoco-motors.com
info@promoco-motors.com

The specifications are believed to be accurate and reliable. However, the suitability has to be determined for a specific application. Specifications are subject to change without notice.