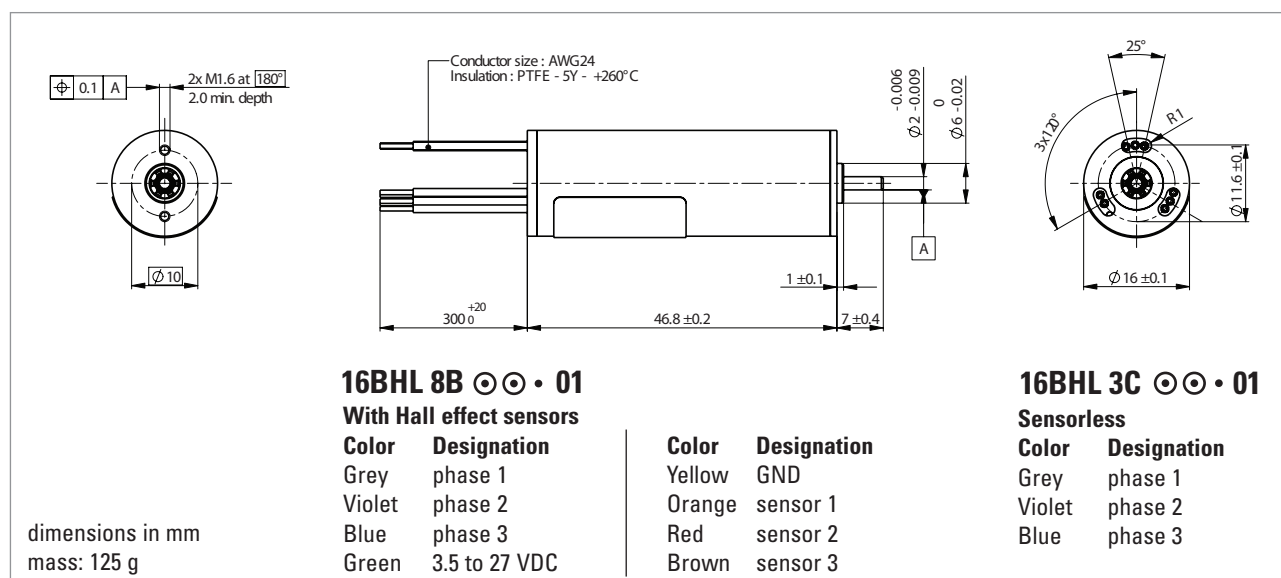


Electronically Commutated Motor



Winding Type



-C

Coil Dependent Parameters

Phase/phase resistance	ohm	0.78
Phase/phase inductance	mH	0.06
Back-EMF constant	V/1000 rpm	0.54
Torque Constant	mNm/A (oz.-in/A)	5.2 (0.74)
Dynamic Parameters		
Rated Voltage	V	12
No-load Current	mA	120
No-load Speed	rpm	21'600
Max. continuous stall torque	mNm (oz.-in)	12.1 (1.7)
Max. continuous stall current	A	2.3
Max. continuous torque at 10 krpm	mNm (oz.-in)	11.3 (1.6)
Max. continuous current at 10 krpm	A	2.2
Max. continuous power at 10 krpm	W	11.9
Intrinsic Parameters		
Motor constant	mNm/W ^{1/2} (oz.-in/W ^{1/2})	5.9 (0.83)
Rotor inertia	kgm ² 10 ⁻⁷	0.95
Mechanical time constant	ms	2.7
Electrical time constant	ms	0.08
Thermal resistance	°C/W	17

The 16BHL 8B is a motor with Hall Effect sensor. It is intended to use with a driver such as the EBL driver (see page 263)

- Motor with preloaded ball bearings
- Typical preload = 2 N
- Maximum external load:
 - axial static 25 N
 - axial dynamic 2 N
 - radial dynamic 5 N
- Operating temperature range: -30°C to 100°C
- Max. rated coil temperature: 125°C

The 16BHL 3C is a sensorless motor with a Delta connection winding. It is intended to use with a sensorless driver.

Recommended planetary gearhead: R16 (see page 238)

