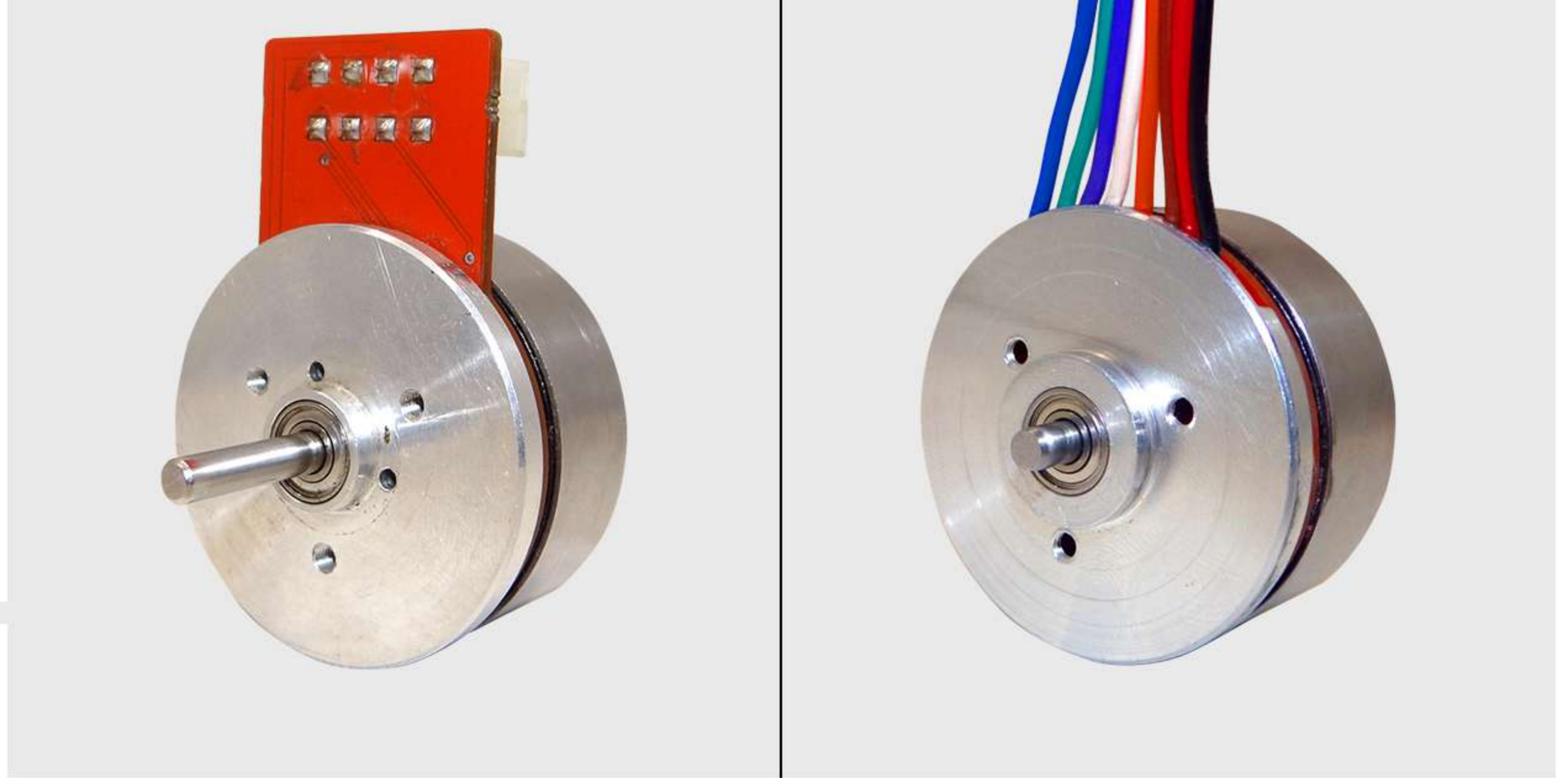


BO 42 (70W)

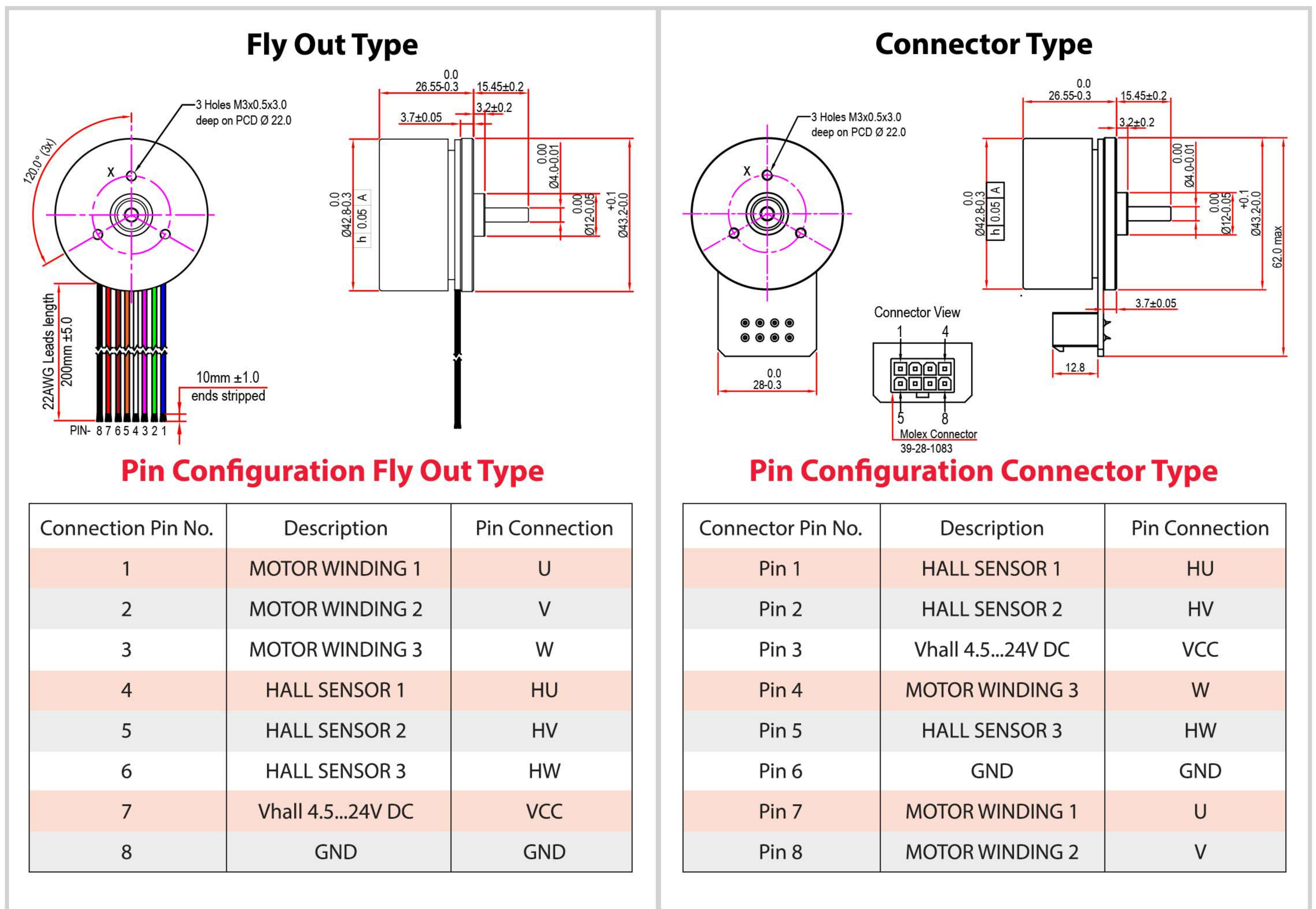


Description

BO42 Series Motors are Brushless DC Outrunner motors with 42mm diameter. These Motors are available with sensor and without sensor. Robust Ball bearings ensure excellent service life with ≥ 5000 Hrs. Drivers are also available as an Add-On unit on special request. These motors are available in different speeds and different voltages on special request.

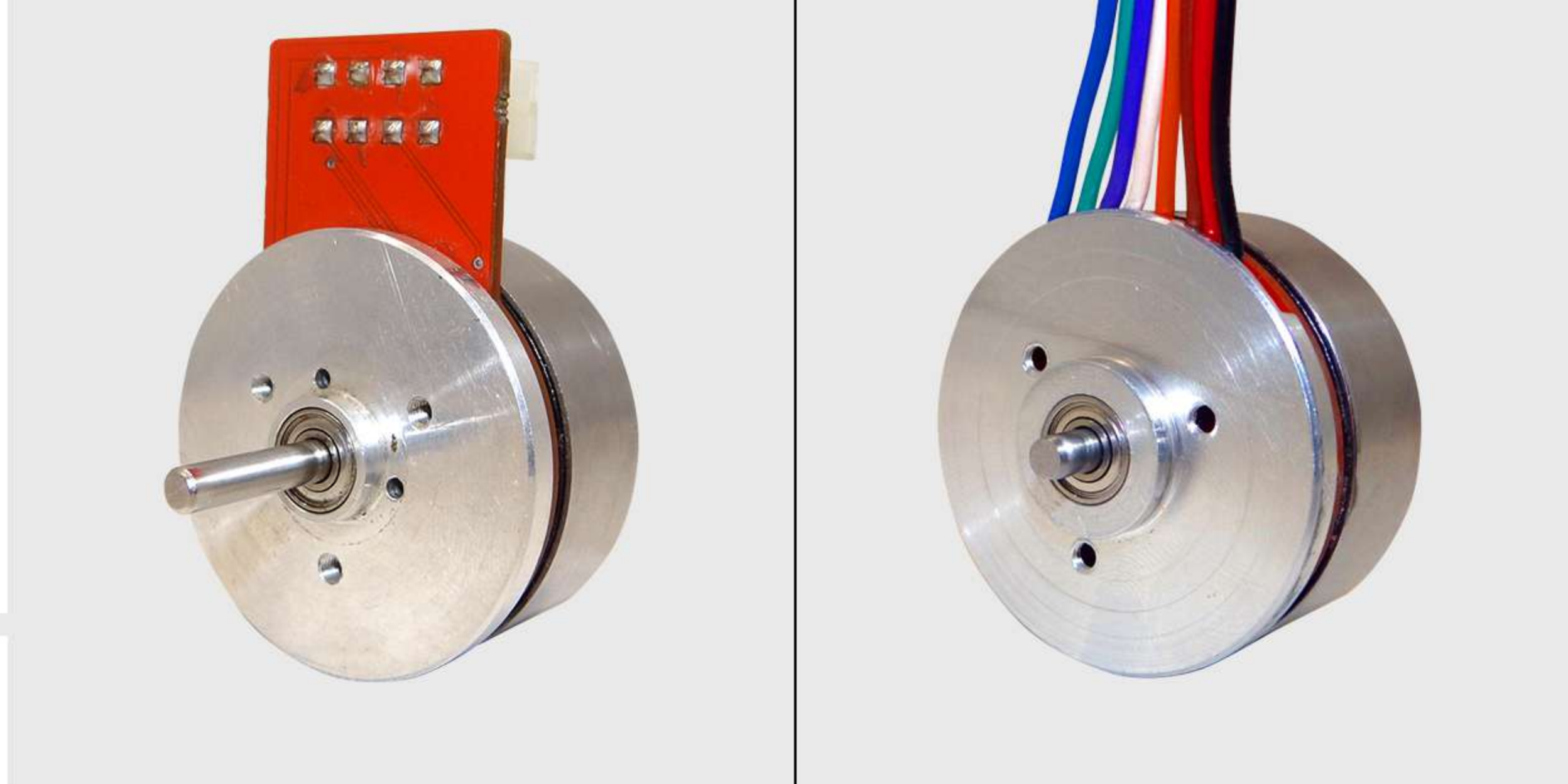
These Motors are used in combination with many Mechtex gearheads. Depending on the application, output speed, load applied etc the type of gearhead can be selected. Various types of gears i.e poly acetal, sintered iron, brass & steel gears can be used based on the load considerations. Poly acetal or sintered gears usually are used for noise dampening & complete poly acetal gears are used when the output torque required is less. All bearings are permanently lubricated and therefore require no maintenance.

Dimensional Drawing



Note: Customised shaft available on special request.

BO 42 (70W)



Standard Data

| | | |
|--------------------------------------|-----|------------------------------|
| Ambient temperature operation | °C | -60 to +130 °C |
| Storage & Transport Temperature | °C | -70 to +210 °C |
| Combination with Mechtex Gear Series | | GB5P/5H, GB 380CP, GB B/C/L. |
| Standard motor voltages | Vdc | 24 volts |
| Weight | g | 140 |
| Electrical Enclosure | IP | 40 |
| Insulation Class | | E |
| Life expectancy | | >5000 hours @ Rated Torque |

Technical Data BO 42 (70W)

| MODEL No. | | | BO4226-24a | BO4226-24b | BO4226-24c |
|----------------------|---------|--------|------------|------------|------------|
| No load data | Voltage | V | 24 | 24 | 24 |
| | Speed | RPM | 5600 | 6800 | 7200 |
| Data at Rated Torque | Current | A | 0.340 | 0.485 | 0.500 |
| | Speed | RPM | 4100 | 5380 | 5920 |
| | Current | A | 3.00 | 3.48 | 3.12 |
| | Torque | N.cm | 13 | 11 | 9 |
| | Effic. | (%) | 77.48 | 74.16 | 74.24 |
| | Power | W(out) | 55.79 | 61.94 | 55.77 |
| | Stall | Torque | N.cm | 150 | 147 |
| Current | | A | 44 | 46 | 48 |

*Other speeds & voltages on special request

Graphical Representation

