

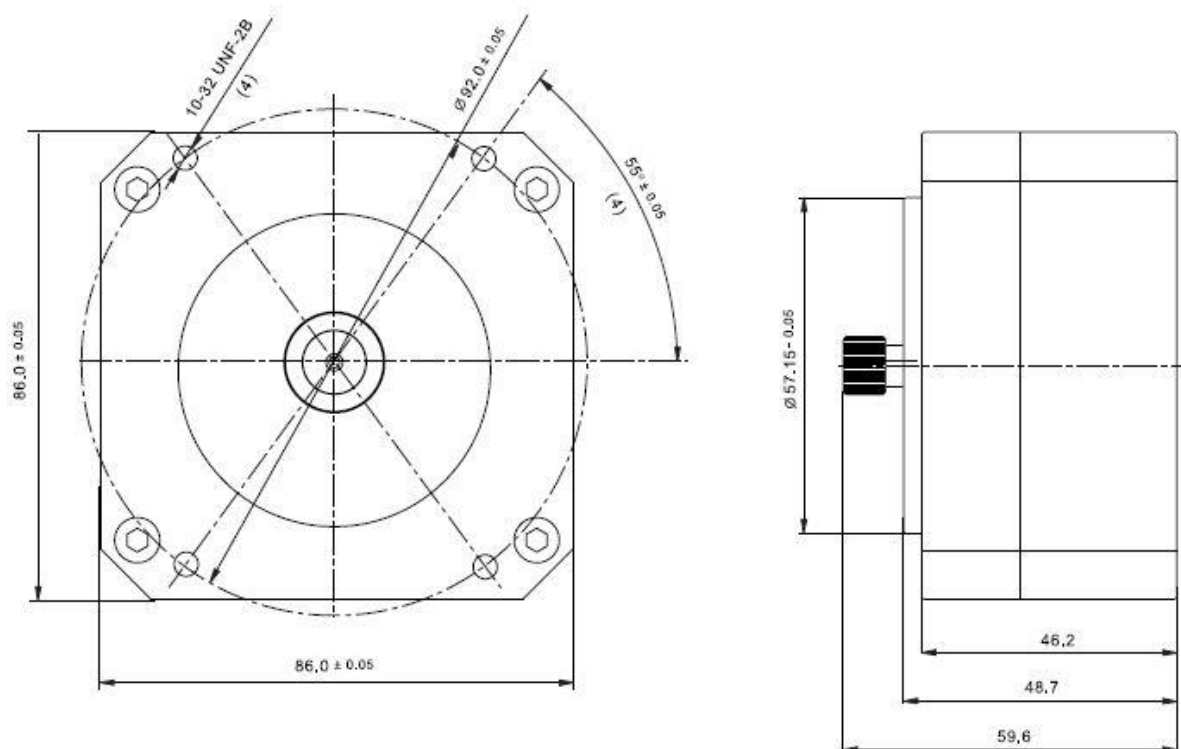
## MDC-BL-86

This motor was especially designed for applications where high torque to volume ratio is needed. It is a brushless DC motor with outer wound stator, rare-earth/cobalt magnets rotor and Hall effect rotor position sensor. Peak torque obtained on the axis at nominal voltage of 28 V DC is 3.2 N\*m (min). Available in different housings, or frameless. Is conform to MIL STD. Temperature range:  $-40 \div +80$  [°C]. Vibration toleration: according to MIL 810. Available with or without tachogenerator, with sensitivity according to customer requirements.



## Specifications

| Parameter                                  | Unit      | Value       | Tolerance |
|--|-----------|-------------|-----------|
| Nominal voltage                            | VDC       | 28          | -         |
| Peak torque                                | Nm        | 4.0         | max.      |
| Back EMF constant                          | V/rad/sec | 0.09        | ±10%      |
| No load speed                              | rad/sec   | 310         | nom       |
| Max. allowable winding temperature         | °C        | 150         | -         |
| DC resistance                              | Ohm       | 0.12        | ±12.5%    |
| Torque sensitivity                         | Nm/A      | 0.09        | ±10%      |
| Inductance                                 | mH        | 0.18        | ±30%      |
| Dielectric withstanding voltage @ 50/60 Hz | VAC       | 250         | min.      |
| Insulation resistance @ 250 VDC            | MOhm      | 100         | min.      |
| Temperature :                              |           |             |           |
| - Operating                                | °C        | -40 to +80  |           |
| - Storage                                  |           | -54 to +100 |           |
| Weight                                     | kg        | 1.600       | -         |

**MDC-BL-43****Drawing**

*All dimensions are in mm*

**For Additional Information**

To learn more about the MDC-BL-86 or other MTC products, contact MTC on **+972 4 998 7772** or email **marketing@mtcind.com**