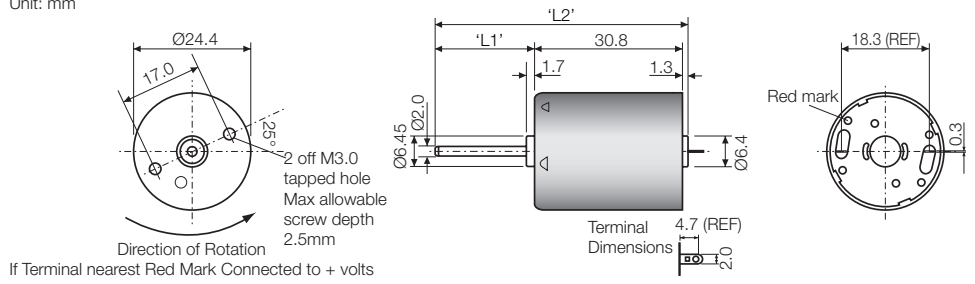


# DC Motors

D2431-09451

Issue 07:CN2971

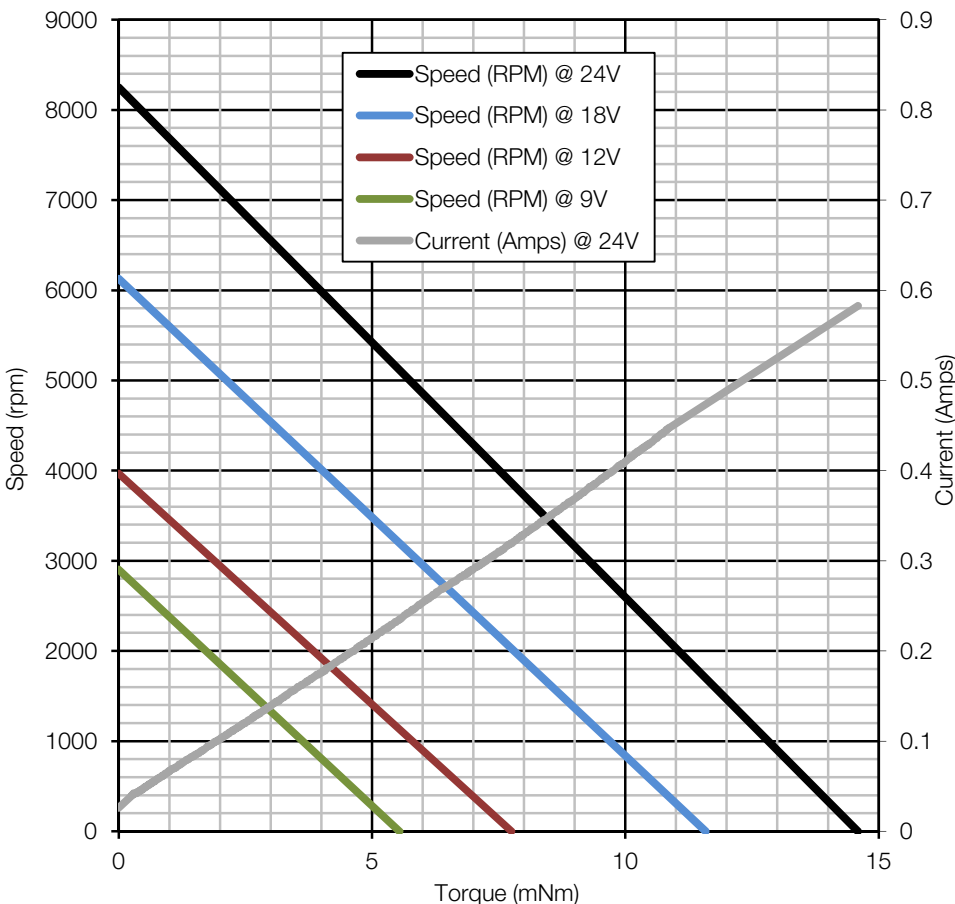
Unit: mm



| Model Number | Performance |           |           |                    |           |            |          |            |           |             |
|--------------|-------------|-----------|-----------|--------------------|-----------|------------|----------|------------|-----------|-------------|
|              | Volts V     | No Load   |           | Maximum Efficiency |           |            |          | Stall      |           | Max Power W |
|              |             | Speed rpm | Current A | Speed rpm          | Current A | Torque mNm | Output W | Torque mNm | Current A |             |
| D2431-09451  | 24          | 8248      | 0.03      | 6844               | 0.12      | 2.50       | 1.79     | 14.59      | 0.58      | 3.17        |
|              | 18          | 6127      | 0.03      | 4994               | 0.10      | 2.11       | 1.10     | 11.59      | 0.45      | 1.87        |
|              | 12          | 3968      | 0.02      | 3111               | 0.09      | 1.67       | 0.54     | 7.75       | 0.31      | 0.81        |
|              | 9           | 2901      | 0.02      | 2214               | 0.07      | 1.31       | 0.30     | 5.54       | 0.24      | 0.42        |

Performance characteristics and general specification are measured from sample motor.

## Characteristics



## General Specification

|  |                        |
|--|------------------------|
| Bearings                               | Sintered               |
| Brushes                                | Carbon                 |
| Rotation                               | Bi-directional         |
| Number of poles                        | 3                      |
| Operating voltage                      | 9 V to 30 V            |
| Nominal resistance                     | 38.8 $\Omega$          |
| Nominal inductance                     | 15.5 mH                |
| Typical detent torque                  | 1 mNm                  |
| Suppression                            | Internal ring varistor |
| Weight (D2431-09451)                   | 45 g                   |
| <b>Shaft length options 'L1', 'L2'</b> |                        |
| D2431-09451                            | 20.7mm, 52.8 mm        |
| D2431-09451S                           | 10.7mm, 42.8 mm        |

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