

# Motor for Assisting Mobilities

EXEDY

Under Development



## Concept

Small direct drive motor for assisting mobilities with high efficiency in low speed region

## Features

- Reduced the diameter and achieved high torque by outer rotor structure
- Achieved high efficiency and reliability with a brushless motor incorporating Hall IC
- Obtained IP54 and compatible with various environment (MM250-2HN only)

## Structure / Appearance

Appearance Product number	 <b>MM030 -1HN</b>	 <b>MM250 -2HD/2HN</b>
Dimensions	$\phi 79.6\text{mm} \times L51\text{mm}$ <small>(excluding the installing part) (excluding the shaft)</small>	2HD : $\phi 100\text{mm} \times L141.5\text{mm}$ 2HN : $\phi 100\text{mm} \times L116.5\text{mm}$ <small>(excluding the installing part) (excluding the shaft)</small>
Weight	743g	3.73kg / 3.45kg
Rated output	30W	250W
Rated torque	1.5Nm	5Nm
Maximum rotational speed	300r/min	650r/min
Rated voltage	DC 12V	DC 24V
Optional	—	With / Without a driver
IP code	Aiming for IP54	IP54 (Obtained for 2HN only)

### Application examples

- Electric kick scooter
- Movement support robot
- Stair lift
- Electric wheelchair
- Autonomous mobile robot
- Electric assist trolley