

Motors

Brushless DC motor Outer rotor type

Smart_20N series [20N Type 3]



The brushless motor ensures long life and high efficiency.

Brushless DC motors do not require commutators and brushes, which are the disadvantages of brush motors. Brushless DC motors are energy-efficient direct-current drives with outstanding life, reduced noise levels, enhanced quietness, and high efficiency. Because the rotor is on the outside, this has high drive torque, and excels at constant-speed applications. Detection of rotating speed and changing of rotating speed through PWM input are possible. In addition to as stated, customization enables changes to base plate configuration, addition of pinion gears, changing of shaft projection direction, and non-built-in drive circuits.

Product data

Basic information

Power type	DC
Size	φ25 mm
L dimension	13.4 mm
Weight	25 ~ 30 g
Bearing	Sleeve bearings
Manufacturer name	NIDEC CORPORATION

Input

Operating voltage	<input type="text" value="12 V"/>	5 ~ 24 V
Operating current	<input type="text" value="-"/>	~ 1.1 A

Output

output	<input type="text" value="-"/>	~ 8.2 W
torque	<input type="text" value="-"/>	~ 11.8 mN · m
Stall torque	<input type="text" value="34.7 mN•m"/>	
Rated speed	<input type="text" value="-"/>	6600 ~ min-1
No load revolving speed	<input type="text" value="10000 min-1"/>	
Momentary maximum torque	<input type="text" value="34.7 mN•m"/>	
Maximum momentary permitted rotation rate	<input type="text" value="10000 min-1"/>	

Characteristic graph

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