

### Characteristic

- Bearing  
Can be select to Oil retaining bearing or Ball bearing
- Connection  
Connector
- Interface ( 5 terminals. )
  - Power Supply ... 4.5 ~ 26.4V
  - GND ... ( Short to Frame )
  - FG ... 6 pulses per rotation, 5V, square-wave  
The switchable 1FG or 1/2FG or 1/3FG
  - VSP or PWM ... Rotational speed adjustment terminal  
VSP : 0V ~ 5V  
(1V> : stop, 4.4V< : Full acceleration)
  - PWM : 0 - 5V, 15 ~ 100kHz (ON-level : 2V ~ 5V)  
(Duty3%> : stop, Duty100%< : Full acceleration)
  - CW / CCW switch  
0.8V> : CCW, 1.3V ~ 2.0V : Brake-mode, 2.5V< : CW

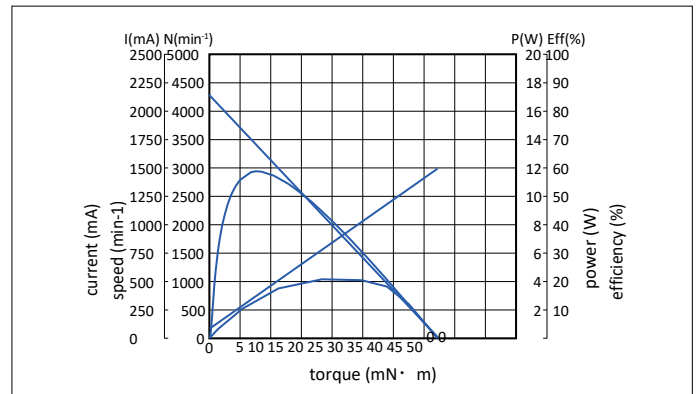


- 3 Phase outer rotor type DC Brushless Motor
- Driver circuit built-in

### Major Characteristic Parameters (at 12V)

No load speed	4300 [min <sup>-1</sup> ]
Starting torque	60 [%] ( at 7mN · m )
Speed at maximal efficiency	3500 [min <sup>-1</sup> ]
Maximum output power	4.2 [W] ( at 18mN · m )
Speed at max output power	2200 [min <sup>-1</sup> ]
Life at 20°C	5000 [hour]

※ Adjustable by winding



### Outside Dimension (Reference)

