



## AFPMG165-75W/330RPM outer rotor

### Technical Parameters

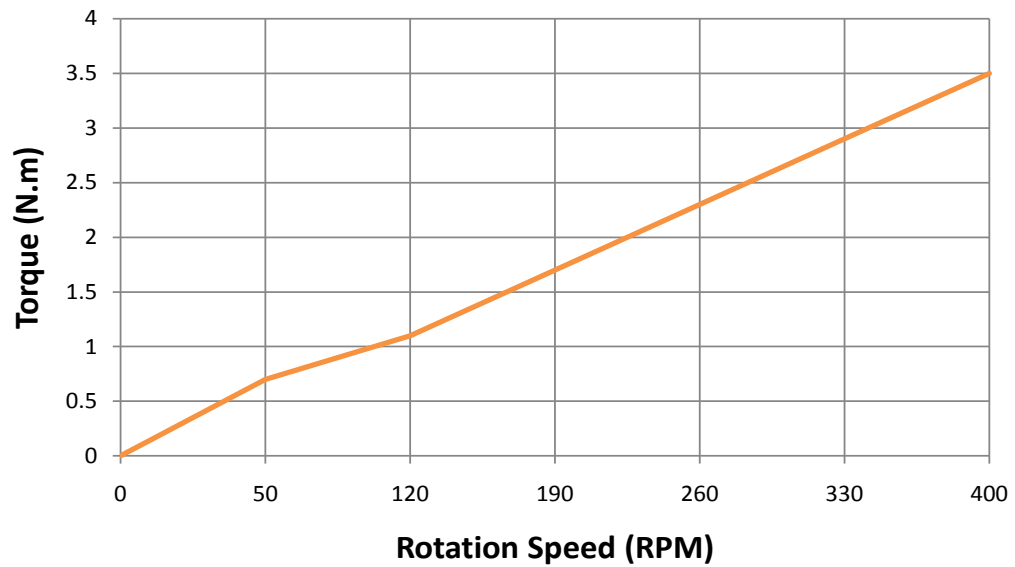
| No. | Parameter                  | Units           | Data                 |
|-----|----------------------------|-----------------|----------------------|
| 1   | Rated output power         | W               | 75                   |
| 2   | Rated speed                | RPM             | 330                  |
| 3   | Rated output voltage       | VDC             | 28(21*1.35)          |
| 4   | Rated current              | A               | 2.1                  |
| 5   | Phase Resistance           | $\Omega$        | 20℃ 1.1 $\Omega$     |
| 6   | Output wire square section | mm <sup>2</sup> | 2                    |
| 7   | Efficiency                 |                 | >75%                 |
| 8   | Winding type               |                 | Y                    |
| 9   | Insulation resistance      |                 | 100Mohm Min(500V DC) |
| 10  | Voltage withstand          | ma              | <5 ma                |
| 11  | Insulation                 |                 | H class              |
| 12  | Start torque               | Nm              | <0.3                 |
| 13  | Temperature rise           | ℃               | <80                  |
| 14  | Max. working temperature   | ℃               | <120                 |
| 15  | Generator diameter         | mm              | 165                  |
| 16  | Shaft diameter             | mm              | 20                   |
| 17  | Housing material           |                 | Aluminum Alloy       |
| 18  | Shaft material             |                 | Steel                |
| 19  | Bearing                    |                 | NSK                  |
| 20  | Weight                     | Kg              | 4                    |
| 21  | Design lifetime            | Year            | >20                  |

### Test Data

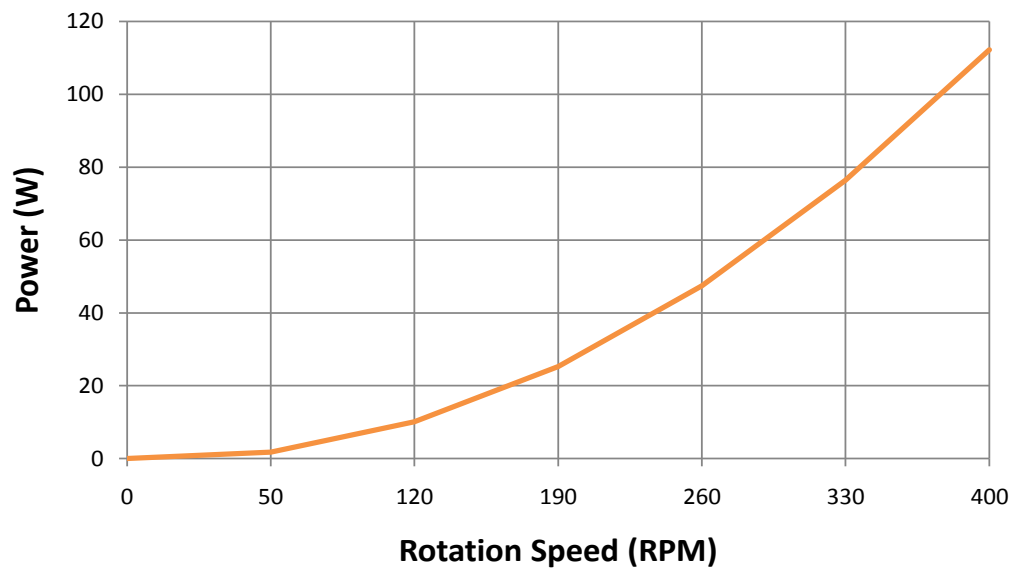
| Speed<br>(RPM) | Load voltage<br>(VDC ) | Load current<br>(A ) | Load power<br>(W) | Torque<br>(N.m) | Efficiency<br>(%) |
|----------------|------------------------|----------------------|-------------------|-----------------|-------------------|
| 400            | 25.5                   | 2.54                 | 112.2             | 3.5             | 75.8              |
| 330            | 21.0                   | 2.10                 | 76.4              | 2.9             | 75.6              |
| 260            | 16.6                   | 1.65                 | 47.4              | 2.3             | 75.1              |
| 190            | 12.1                   | 1.21                 | 25.3              | 1.7             | 73.9              |
| 120            | 7.7                    | 0.76                 | 10.1              | 1.1             | 70.4              |
| 50             | 3.2                    | 0.32                 | 1.8               | 0.7             | 51.3              |



### Speed-Torque Curve



### Speed-Power Curve





## Speed-Voltage Curve

