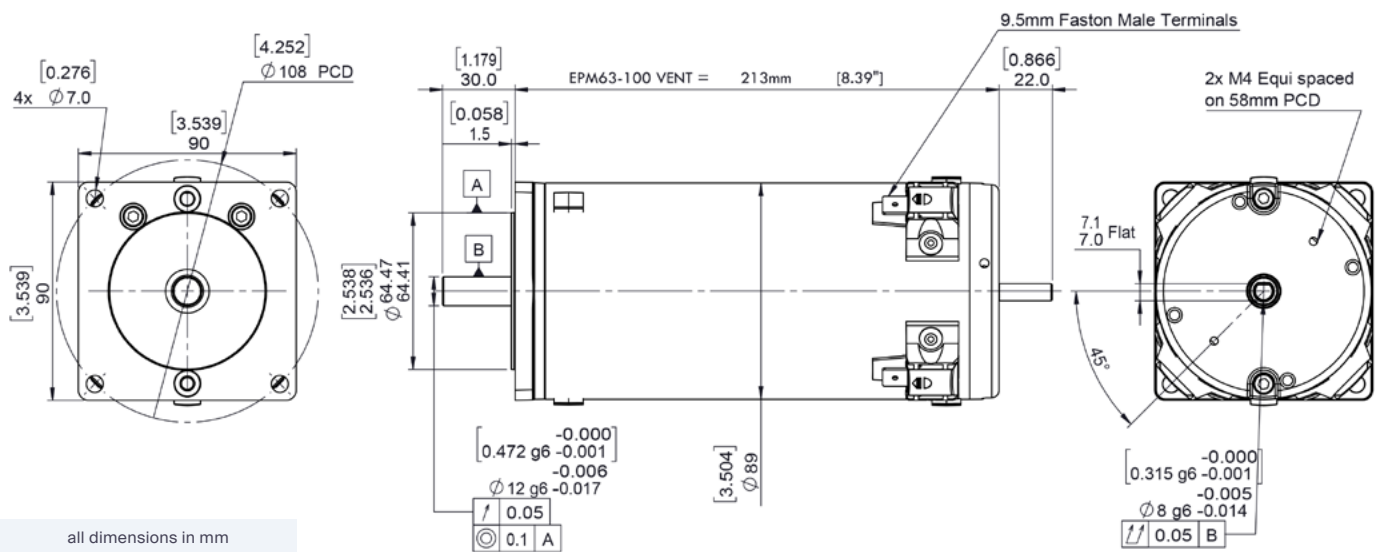


EPM63-100 Fan Cooled PMDC motor

Ø90 mm frame // 100 mm stack

parvalux
by **maxon**



Part number key

| | |
|-----------------|-------|
| Modular | ##### |
| Standard | ##### |
| Calculated data | ##### |

Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors

All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found on our website

Technical data

| 1 Part number | | - | - | - | - |
|---|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 2 Nominal power | W | 471 | 471 | 471 | 471 |
| 3 Nominal voltage | V | 12 | 24 | 40 | 48 |
| 4 No load speed | rpm | 4771 | 3895 | 3819 | 3895 |
| 5 No load current | A | 5.20 | 1.90 | 1.10 | 0.94 |
| 6 Nominal speed | rpm | 3000 | 3000 | 3000 | 3000 |
| 7 Nominal continuous torque (S1) | Nm | 1.5 | 1.5 | 1.5 | 1.5 |
| 8 Nominal continuous current (S1) | A | 67.0 | 27.5 | 16.2 | 13.7 |
| 9 Max. intermittent torque (S3) | Nm | 2.00 | 2.40 | 2.40 | 2.40 |
| 10 Stall current | A | 194 | 134 | 77 | 67 |
| 11 Stall torque | Nm | 4.6 | 7.7 | 7.5 | 7.7 |
| 12 Stack length | mm | 100 | 100 | 100 | 100 |
| 13 Maximum efficiency | % | 67 | 78 | 78 | 78 |
| 14 Terminal resistance - phase to phase | Ω | 0.06 | 0.18 | 0.52 | 0.72 |
| 15 Terminal inductance - phase to phase | mH | - | - | - | - |
| 16 Speed constant | rpm/V | 393 | 158 | 93 | 79 |
| 17 Torque constant | Nm/A | 0.024 | 0.060 | 0.100 | 0.120 |
| 18 Speed torque gradient | rpm/Nm | 1041 | 509 | 509 | 509 |
| 19 Rotor inertia | Kg/cm² | 9.64 x 10 ⁻⁴ | 9.64 x 10 ⁻⁴ | 9.64 x 10 ⁻⁴ | 9.64 x 10 ⁻⁴ |

Thermal data

| | | |
|------------------------|-----------|----|
| 20 Ambient temperature | °C | 40 |
|------------------------|-----------|----|

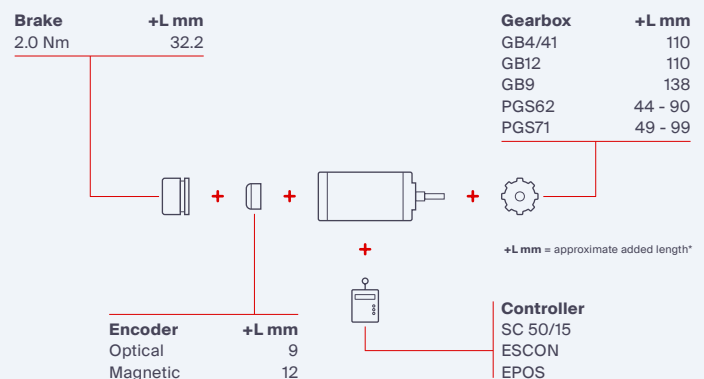
Mechanical data

| | | |
|---------------------------------------|---------------|----------|
| 21 Radial load [distance from flange] | N [mm] | 200 [15] |
|---------------------------------------|---------------|----------|

Other data

| | | |
|---------------------|-----------|------------|
| 22 Number of poles | | 4 |
| 23 Weight | Kg | 4.60 |
| 24 IP rating | | IP21 |
| 25 Enclosure | | Ventilated |
| 26 Insulation Class | | F |
| 27 Reversible | | Yes |

Compatible products



*additional length may also be required for mounting flange between components