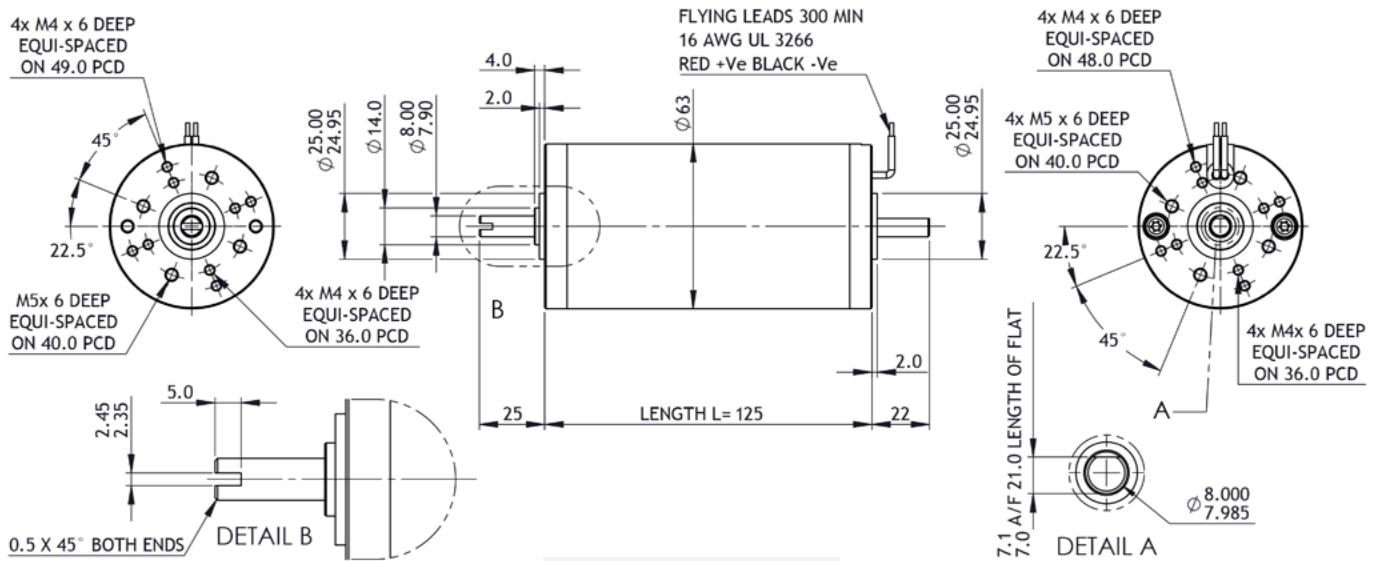


BRx63-55 PMDC motor

Ø63 mm frame // 55 mm stack

parvalux
by **maxon**



all dimensions in mm

Part number key

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

Technical data

| 1 Part number | | 781088 | 781089 | 781090 |
|--|-------------------------|------------------------|------------------------|------------------------|
| 2 Nominal power | W | 79 | 85 | 85 |
| 3 Nominal voltage | V | 12 | 24 | 48 |
| 4 No load speed | rpm | 3665 | 3617 | 3613 |
| 5 No load current | A | 0.70 | 0.31 | 0.18 |
| 6 Nominal speed | rpm | 2800 | 3000 | 3000 |
| 7 Nominal continuous torque (S1) | Nm | 0.27 | 0.27 | 0.27 |
| 8 Nominal continuous current (S1) | A | 9.2 | 4.7 | 2.4 |
| 9 Max. intermittent torque (S2 - 15 minutes) | Nm | 0.45 | 0.45 | 0.45 |
| 10 Stall current | A | 38.3 | 27.9 | 19.2 |
| 11 Stall torque | Nm | 1.16 | 1.65 | 2.20 |
| 12 Stack length | mm | 55 | 55 | 55 |
| 13 Maximum efficiency | % | 76 | 81 | 85 |
| 14 Terminal resistance - phase to phase | Ω | 0.745 | 0.593 | 2.300 |
| 15 Terminal inductance - phase to phase | mH | 0.198 | 0.92 | 3.60 |
| 16 Speed constant | rpm/V | 303.1 | 150.9 | 75.4 |
| 17 Torque constant | Nm/A | 0.03 | 0.06 | 0.10 |
| 18 Speed torque gradient | rpm/Nm | 3181 | 2336 | 1741 |
| 19 Rotor inertia | Kgcm² | 9.3 x 10 ⁻⁵ | 9.3 x 10 ⁻⁵ | 9.3 x 10 ⁻⁵ |

Thermal data

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

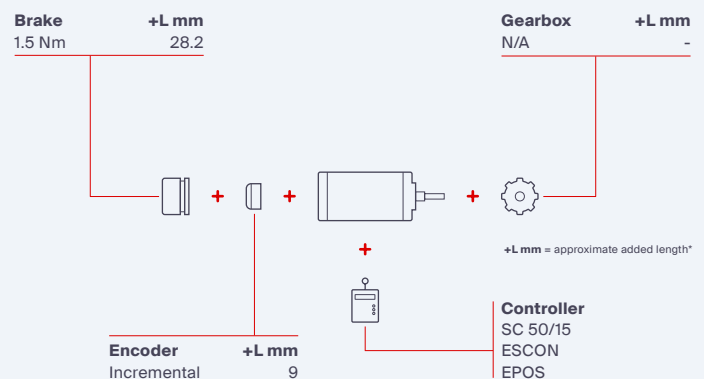
Mechanical data

| | | |
|---------------------------------------|---------------|----------|
| 21 Radial load [distance from flange] | N [mm] | 150 [15] |
|---------------------------------------|---------------|----------|

Other data

| | | |
|---------------------|-----------|----------|
| 22 Number of poles | | 2 |
| 23 Weight | Kg | 1.16 |
| 24 IP rating | | IP54 |
| 25 Enclosure | | Enclosed |
| 26 Insulation Class | | F |
| 27 Reversible | | Yes |

Modular system



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