

CM-1-1000

Permanent-magnet machine CM-1-1000

Permanent-magnet machine for direct drive of applications with highest speed demands.

- Special mechanical rotor construction for highest stresses
- Stator winding and core configuration for optimal efficiency despite highest rotational speeds
- Low heat generation in stator and rotor
- Ideal in combination with converter CC-75-500

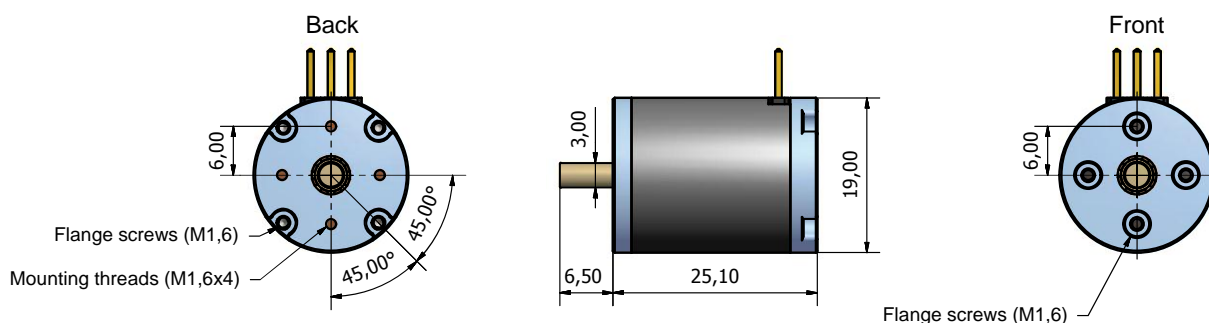


Specifications

Type	Permanent-magnet, metallic rotor sleeve
Rated speed	1'000'000 rpm
Rated power	100 W
Rated torque	1 mNm
Phase voltage (rms)	22 V
Converter voltage	54 V
Flux linkage	$0.27 \cdot 10^{-3} \text{ V} \cdot \text{s}$
Phase current (rms)	1.5 A
Total losses at rated operation point ¹ without bearing losses	8 W
Mass moment of inertia	$2.05 \cdot 10^{-9} \text{ kg} \cdot \text{m}^2$
Temperature measurement	Thermocouple Type K
Sealing	Directly into cooling sleeve

¹Losses for other working points (power/rotational speed) on request

Drawing



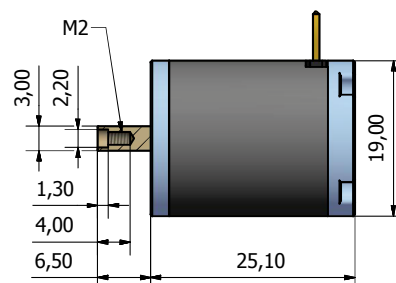
Options

Thermal design

Rotordynamic design

Balancing

Rotor with M2 thread
(Other bore diameter on request)



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