

CM-95-250

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
- High-speed ball bearings with permanent lubrication
- Ideal in combination with converter
- Customized adaptations available

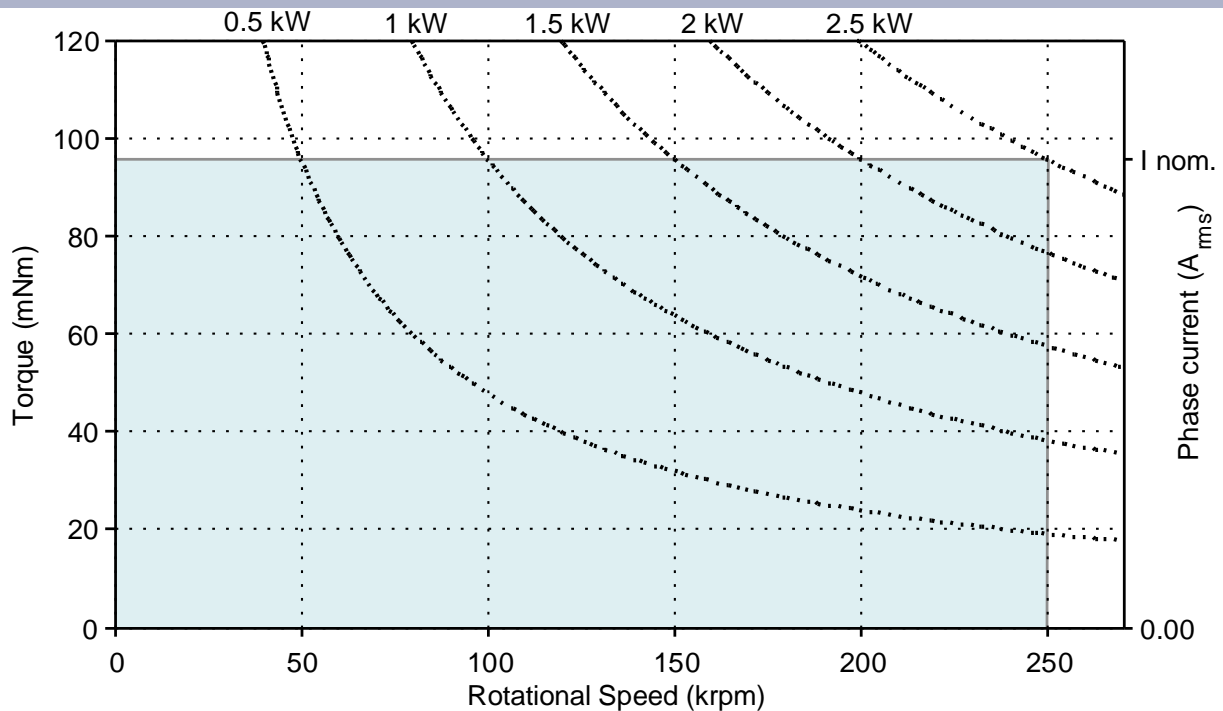


Specifications motor

Pole-pair number	1
Rated speed	250,000 rpm
Rated power	2,500 W
Rated torque	95 mNm
Weight	1 kg
Temperature measurement	PT100
Axial moment of inertia (rotor)	$9.38 \cdot 10^{-7} \text{ kg m}^2$
Cable length (3 x motor phases and PT100)	2 m

Operating range

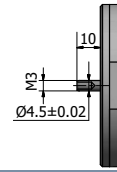
Mechanical torque/phase current versus rotational speed an



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Order codes: CM-95-250.Rxxx.Bxx.Fxx.Cxx

Rotor typ Rxxx	
RM00	Without boring/thread (standard)
RM03	With M3 thread (right hand)
RC99	Other bore diameter/threads on request



Bearing type Bxx	
B00	Standard ball bearing
B01	Vacuum ball bearing
B99	Custom ball bearings

Front flange Fxx	
F00	Standard flange, rotor dismountable only without front load attached
F01	Half-shell flanges, rotor dismountable with front load attached
F99	Custom related flange

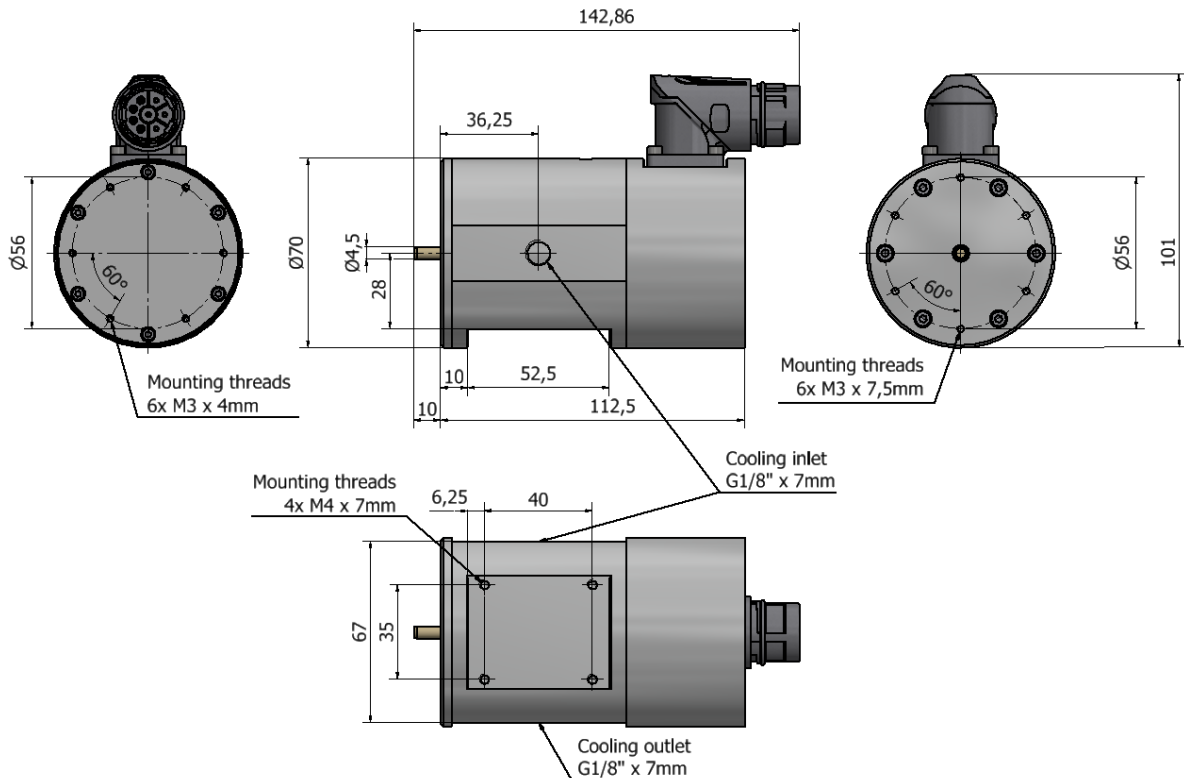
Cooling flange Cxx (air cooling)	
C00	Cooling flange with radial G1/8" inlet/outlet
C99	Other cooling flanges

Optional services for customized adaptations	
▪ Thermal design	▪ Rotordynamic design
▪ Balancing	▪ Mechanical design

Ordering information	Article number
CM-95-250.RM00.B00.F00.C00	4020073
CM-95-250.RM03.B00.F00.C00	4020074
CM-95-250.RM00.B00.F01.C00	4020076
CM-95-250.RM03.B00.F01.C00	4020077
CM-95-250.RM00.B01.F00.C00	4020079
CM-95-250.RM03.B01.F00.C00	4020080
CM-95-250.RM00.B01.F01.C00	4020082
CM-95-250.RM03.B01.F01.C00	4020083
CM-95-250.RC99.B00.F00.C00	4020086

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Drawing in mm



i Depending on custom specific operation conditions and the corresponding Celeroton converter the operating range shown in this document may be different or may have additional limitations. For technical details and further information, please refer to the user manual or contact Celeroton directly.