

CM-2-500

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

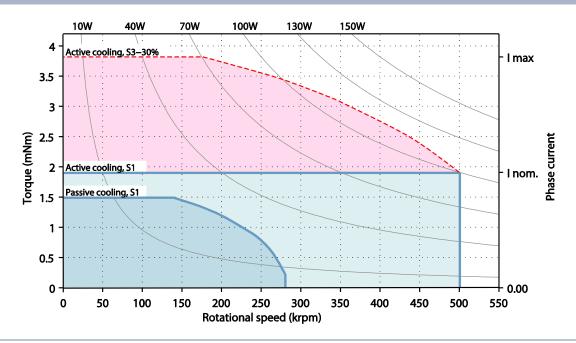
- Special mechanical rotor construction for highest stresses
- Stator winding and core configuration for optimal efficiency despite highest rotational speeds
- Low heat generation in stator and rotor
- High-speed ball bearings with permanent lubrication
- Ideal in combination with converter CC-75-500
- Customized adaptions available



Specifications motor	
Pole-pair number	1
Rated speed	500,000 rpm
Rated power	100 W
Rated torque	2 mNm
Weight	36 g
Temperature measurement	Thermocouple Type K
Axial moment of inertia (rotor)	$1.95 \cdot 10^{-8} \text{ kg m}^2$

Operating range

Mechanical torque/phase current versus rotational speed an





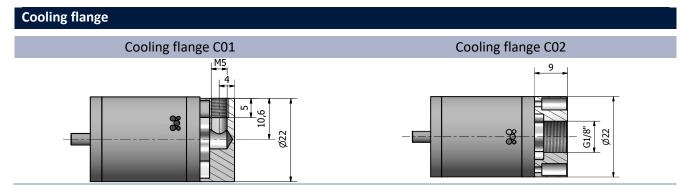
Order codes: CM-2-500.Rxxx.Bxx.Fxx.Cxx

Rotor type Rxxx		
RM00 (standard)	Without boring/thread	02,2
RM02	With M2 thread (right hand)	8 2 2
RM10	Extended shaft stub (10.7 mm)	1,3
RC99	Custom specific boring/thread	5,5

Bearing type Bxx	
B00 (standard)	Standard ball bearing
B01	Vacuum ball bearing
B99	Custom specific ball bearing

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

Cooling flange Cxx (air cooling)		
C00 (standard)	No cooling flange	
C01	Cooling flange with radial inlet	
C02	Cooling flange with axial inlet	
C99	Custom specific cooling flange	



Optional services for customized adaptions Thermal design Rotor dynamic design



Ordering information	Article number
CM-2-500.RM00.B00.F00.C00	4020001
CM-2-500.RM02.B00.F00.C00	4020002
CM-2-500.RM10.B00.F00.C00	4020004
CM-2-500.RM00.B01.F00.C00	4020005
CM-2-500.RM02.B01.F00.C00	4020006
CM-2-500.RM10.B01.F00.C00	4020008
CM-2-500.RM00.B00.F01.C00	4020009
CM-2-500.RM02.B00.F01.C00	4020010
CM-2-500.RM10.B00.F01.C00	4020012
CM-2-500.RM00.B01.F01.C00	4020013
CM-2-500.RM02.B01.F01.C00	4020014
CM-2-500.RM10.B01.F01.C00	4020016
CM-2-500.RM00.B00.F00.C01	4020017
CM-2-500.RM02.B00.F00.C01	4020018
CM-2-500.RM10.B00.F00.C01	4020020
CM-2-500.RM00.B01.F00.C01	4020021
CM-2-500.RM02.B01.F00.C01	4020022
CM-2-500.RM10.B01.F00.C01	4020024
CM-2-500.RM00.B00.F01.C01	4020025
CM-2-500.RM02.B00.F01.C01	4020026
CM-2-500.RM10.B00.F01.C01	4020028
CM-2-500.RM00.B01.F01.C01	4020029
CM-2-500.RM02.B01.F01.C01	4020030
CM-2-500.RM10.B01.F01.C01	4020032
CM-2-500.RM00.B00.F00.C02	4020033
CM-2-500.RM02.B00.F00.C02	4020034
CM-2-500.RM10.B00.F00.C02	4020036
CM-2-500.RM00.B01.F00.C02	4020037
CM-2-500.RM02.B01.F00.C02	4020038
CM-2-500.RM10.B01.F00.C02	4020040
CM-2-500.RM00.B00.F01.C02	4020041
CM-2-500.RM02.B00.F01.C02	4020042
CM-2-500.RM10.B00.F01.C02	4020044
CM-2-500.RM00.B01.F01.C02	4020045
CM-2-500.RM02.B01.F01.C02	4020046
CM-2-500.RM10.B01.F01.C02	4020048



4x M1.6 x 4 mm

Drawing in mm back Front 018 Cooling holes 8x Ø2 Nounting threads



Mounting threads – 4x M1.6 x 4.5 mm

22.5

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.

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