

cpc DD Motor DR-105 series

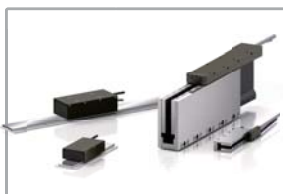


Features

- Highest torque density
- Highest motor constant
- Low profile
- Direct drive
- High heat dissipation
- Large hollow diameter
- Frameless or housed type



Linear guide



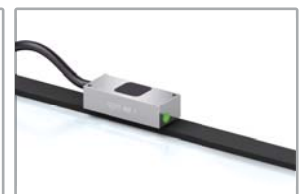
Linear motor



Linear motor stage



Servo driver



Magnetic encoder

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DR-105

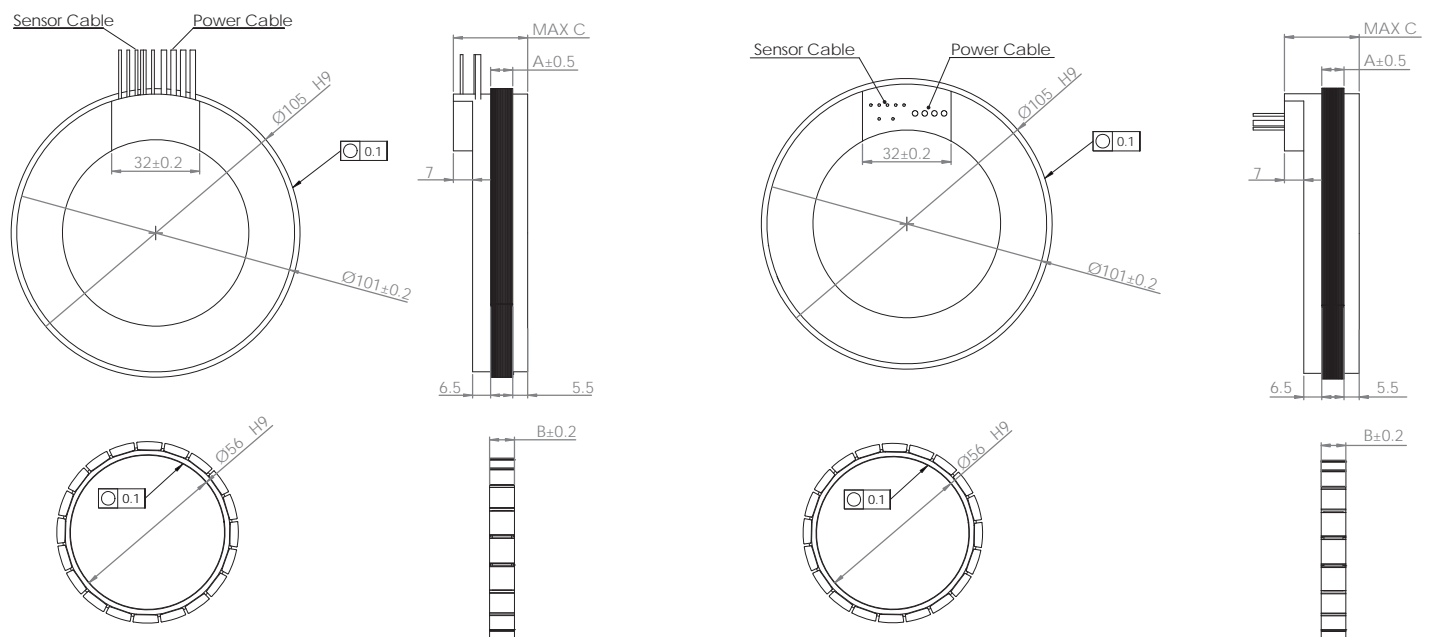
	Unit	DR 105-8	DR 105-16	DR 105-24	DR 105-32	DR 105-48	DR 105-80
Max Motor Height	mm	27	35	43	51	67	99
Motor Height	mm	20	28	36	44	52	60
Peak Torque ⁽²⁾⁽³⁾	Nm	3.1	6.0	9.2	12.1	18.2	29.9
Contionuous Torque with heat sink ⁽¹⁾⁽²⁾	Nm	2.3	4.5	6.9	9.0	13.6	22.6
Contionuous Torque without heat sink ⁽²⁾⁽³⁾	Nm	1.5	3.0	4.6	6.0	9.0	14.6
Time constant ⁽²⁾	ms	6.2					
Stator OD	mm	105					
Rotor ID	mm	56					
Lamination Stack Height	mm	8	16	24	32	48	80
Rotor Inertia	kg*m ²	5.8*10 ⁻⁵	1.2*10 ⁻⁴	1.7*10 ⁻⁴	2.3*10 ⁻⁴	3.5*10 ⁻⁴	5.8*10 ⁻⁴
Stator Mass	kg	0.51	0.92	1.42	1.93	2.95	4.98
Rotor Mass	kg	0.06	0.12	0.19	0.25	0.37	0.62
Total Mass	kg	0.57	1.04	1.61	2.18	3.32	5.6
Motor Constant ⁽²⁾	N/√R	0.232	0.420	0.597	0.748	1.061	1.683
Thermal Resistant without heat sink ⁽²⁾⁽³⁾	°C/W	1.7					
Thermal Resistant with heat sink ⁽¹⁾⁽²⁾	°C/W	0.3					
A	mm	8	16	24	32	48	80
B	mm	9	17	25	33	49	81
C	mm	27	35	43	51	67	99

(1) The value applies to static sinusoidal drive, specific heat sink and temperature from 25°C up to 110°C. The actual performance is dependent to heat sink configuration, system cooling condition and ambient temperature.

(2) The tolerance of all performance and electrical specification is ±10%

(3) The value applies to static sinusoidal drive and temperature from 25°C up to 110°C, without heat sink.

Dimension



For more details please contact **cpc**.

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