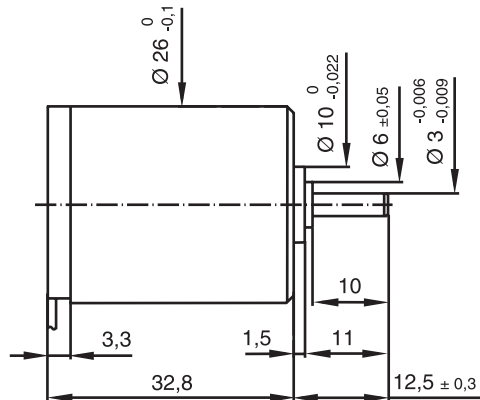


dimensions in mm
mass: 72 g



26BC-6A ☉☉ • 101

With Hall effect sensors

Pin	Color	Designation
1	brown	GND
2	red	power supply voltage ¹⁾
3	orange	direction CCW/CW ⁵⁾
4	yellow	enable start/stop ^{3) 5)}
5	green	logic supply voltage ²⁾
6	blue	speed signal ⁴⁾

Winding Type



-119

-113

-110

-107

Coil Dependent Parameters

Parameter	Unit	-119	-113	-110	-107
Phase resistance	ohm	1.9	6.8	17.6	69
Phase inductance	mH	0.23	0.71	1.65	5.8
Back-EMF constant	V/1000 rpm	0.56	0.96	1.4	2.66
Torque constant	mNm/A (oz.-in/A)	5.4 (0.7)	9.2 (1.3)	13.4 (1.9)	25.4 (3.6)
Max. continuous current	A	1.2	0.6	0.4	0.2

Thermal time constant mn 11
Thermal resistance °C/W 14
Axial play* μm 10
Radial play (2.5N rad.load) μm 10
Axial load (static) 25N
Radial load (static) 25N

* with axial load > 2.5N, max. axial play is 130μm

Coil Independent Parameters

Parameter	Unit	-119	-113	-110	-107
Friction torque	mNm	0.25	0.25	0.25	0.25
Viscous torque (losses)	mNm/1000rpm	0.4	0.4	0.4	0.4
Max. continuous torque up to 10000 rpm	mNm (oz.-in)	4 (0.56)	4.2 (0.6)	4.4 (0.62)	4 (0.56)
Max. recommended speed	rpm	14000	8000	11000	4800

Mechanical Parameters

Parameter	Unit	-119	-113	-110	-107
Rotor inertia	kgm ² 10 ⁻⁷	9.4	9.4	9.4	9.4
Mechanical time constant	ms	61	75	92	100

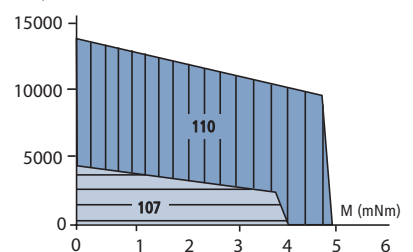
Dynamic Performances

Parameter	Unit	-119	-113	-110	-107
Rated voltage	V	7.5	7.5	15	15
No-load current	mA	250	170	120	50
No-load speed	rpm	12500	7250	9300	4700
Peak speed	rpm	14000	8000	11000	5600
Peak torque	mNm (oz.-in)	4 (0.56)	4.2 (0.6)	4.4 (0.62)	4 (0.56)

- Integrated electronic commutation
- Warning: an incorrect supply voltage polarity may damage the electronic circuitry!
- Standard version with preloaded ball bearings
- Max. permissible coil temp. 130°C (266°F)
- Recommended ambient temperature range 0 to 70°C (32 to 158°F)
- The current consumption of the electronics is 18 mA
- During start up, current needs to be limited to 200 mA

- 1) The motor supply voltage may vary between 2.5V and 18V except for the -119 and -113 coils where the voltage should be limited to 7.5 V.
- 2) The logic supply voltage may vary between 5 and 18 V. By connecting 2 and 5 together, the motor becomes a simple two wires version exactly like a DC motor. In this case, the supply voltage may vary between 5 V and 18 V except for the -119 and -113 coils where the voltage should be limited to 7.5 V.
- 3) start/stop: when grounded, the motor is no more powered.
- 4) Available on output 6 is a square wave voltage: low level = GND, high level = + V logic. Available on output 6 is a square wave voltage: low level = GND, high level = + V logic.
- 5) Inputs 3-4 have pull up resistors of 120 kohm

Speed/torque range of the various windings
n (rpm)



Specifications subject to change without prior notice

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