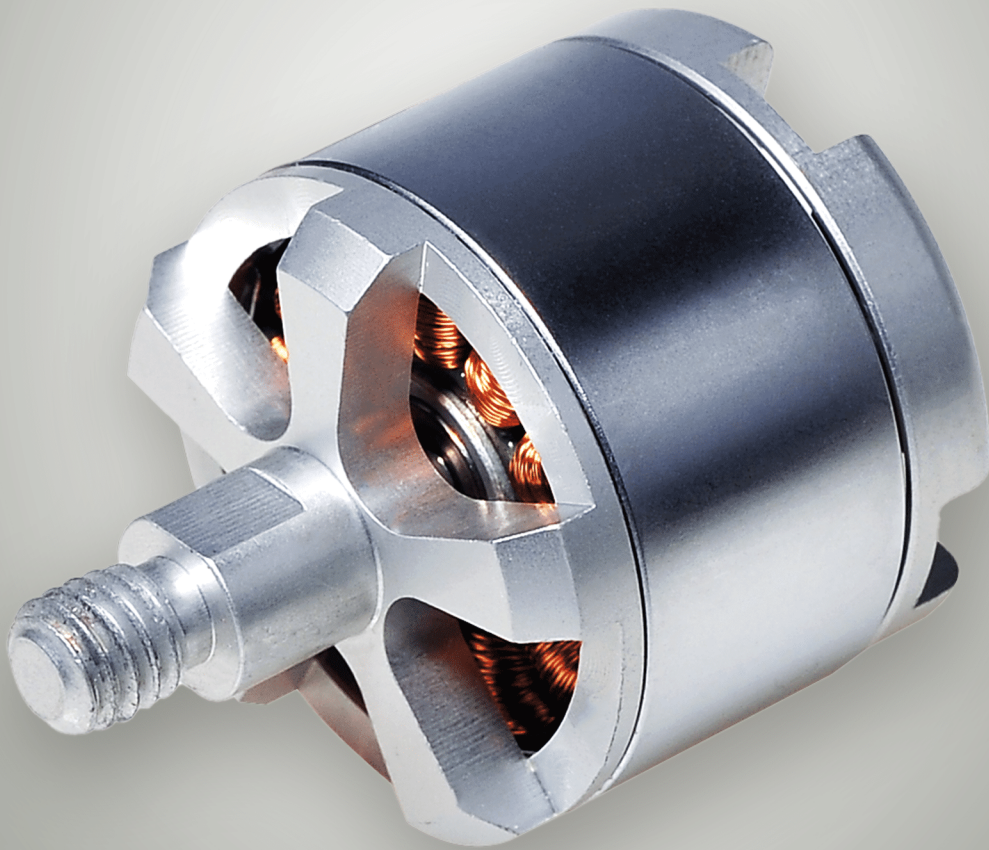




Brushless DC Motors – Outer Rotor

Brushless DC Motors – Outer Rotor

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B01511N2B

15mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1511n2b/>



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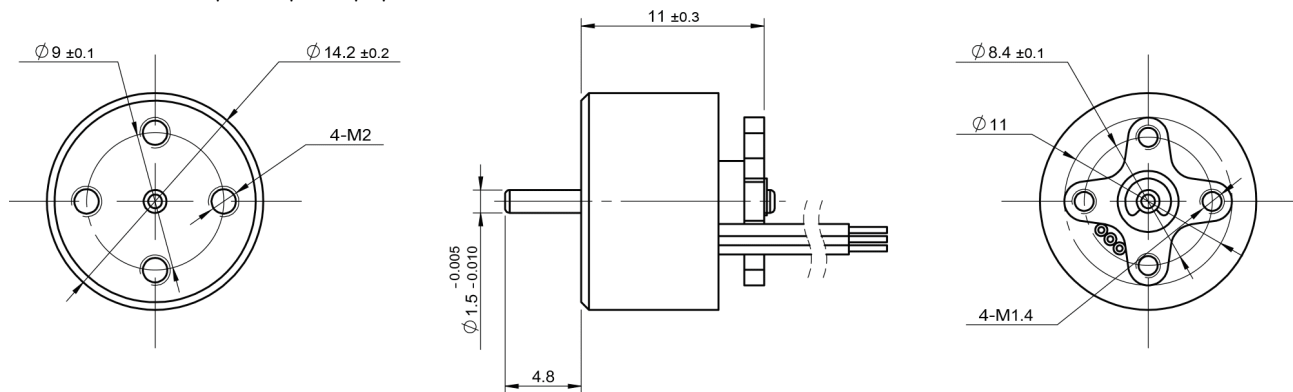
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B01511N2B02-350-6.0

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B01511N2B01-350-7.4

15mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1511n2b01-350-7-4/>



Specification	
Voltage	7.4 V
Terminal resistance	0.45 Ω
No-load speed	35000 rpm
No-load current	0.4 A
Stall torque	31.6 mNm
Stall current	16.4 A
Nominal torque	4.0 mNm
Nominal speed	25100 rpm
Nominal current	2.1 A
Max. output power	29 W
Max. efficiency	71.2 %
Back-EMF constant	0.21 mV/rpm
Torque constant	1.97 mNm/A
KV Value	4730 rpm/mNm
Speed/torque gradient	1107 rpm/mNm
Rotor inertia	1.1 gcm ²
Weight	5.8 g
Thermal resistance housing-ambient	10 K/W
Thermal resistance winding-housing	8.7 K/W
Thermal time constant motor	110 s
Thermal time constant winding	71 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1 N
Axial load static	25 N
Radial load at 3 mm from mounting face	6.3 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- plane
- aeromodelling

B01511N2B02-350-6.0

15mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1511n2b02-350-6-0/>



Specification	
Voltage	7.4 V
Terminal resistance	0.45 Ω
No-load speed	35000 rpm
No-load current	0.4 A
Stall torque	31.6 mNm
Stall current	16.4 A
Nominal torque	4.0 mNm
Nominal speed	25100 rpm
Nominal current	2.1 A
Max. output power	29 W
Max. efficiency	71.2 %
Back-EMF constant	0.21 mV/rpm
Torque constant	1.97 mNm/A
KV Value	1164 rpm/mNm
Speed/torque gradient	1107 rpm/mNm
Rotor inertia	1.1 gcm ²
Weight	5.8 g
Thermal resistance housing-ambient	10 K/W
Thermal resistance winding-housing	8.7 K/W
Thermal time constant motor	110 s
Thermal time constant winding	71 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1 N
Axial load static	25 N
Radial load at 3 mm from mounting face	6.3 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- plane
- aeromodelling

B01613N2B

16mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1613n2b/>



Produkte:

Seite

B01613N2B01-158-3.0

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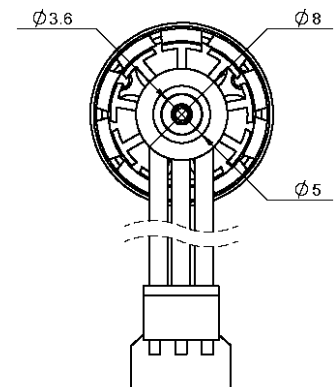
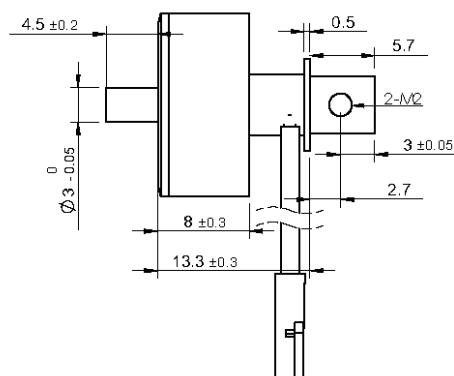
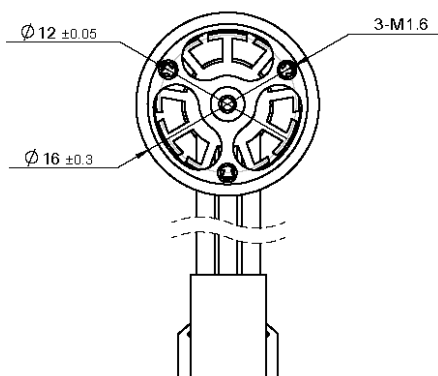
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B01613N2B01-158-3.0

16mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1613n2b01-158-3-0/>



Specification	
Voltage	3.0 V
Terminal resistance	0.18 Ω
No-load speed	15800 rpm
No-load current	0.29 A
Stall torque	29 mNm
Stall current	16.6 A
Nominal torque	7.9 mNm
Nominal speed	4250 rpm
Nominal current	4.2 A
Max. output power	12 W
Max. efficiency	75.2 %
Back-EMF constant	0.2 mV/rpm
Torque constant	1.8 mNm/A
KV Value	5290 rpm/V
Speed/torque gradient	549.5 rpm/mNm
Rotor inertia	1.7 gcm ²
Weight	7.8 g
Thermal resistance housing-ambient	7.9 K/W
Thermal resistance winding-housing	6.4 K/W
Thermal time constant motor	123 s
Thermal time constant winding	100 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1 N
Axial load static	25 N
Radial load at 3 mm from mounting face	6.3 N
No. of pole pairs	5
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01613N2B02-158-6.0

16mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1613n2b02-158-6-0/>



Specification	
Voltage	6.0 V
Terminal resistance	0.82 Ω
No-load speed	15800 rpm
No-load current	0.20 A
Stall torque	26 mNm
Stall current	7.3 A
Nominal torque	12.1 mNm
Nominal speed	4980 rpm
Nominal current	2.6 A
Max. output power	11 W
Max. efficiency	73.8 %
Back-EMF constant	0.4 mV/rpm
Torque constant	3.6 mNm/A
KV Value	2628 rpm/V
Speed/torque gradient	617.4 rpm/mNm
Rotor inertia	1.7 gcm ²
Weight	7.8 g
Thermal resistance housing-ambient	7.9 K/W
Thermal resistance winding-housing	6.4 K/W
Thermal time constant motor	123 s
Thermal time constant winding	100 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1 N
Axial load static	25 N
Radial load at 3 mm from mounting face	6.3 N
No. of pole pairs	5
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01613N2B03-158-9.0

16mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1613n2b03-158-9-0/>



Specification	
Voltage	9.0 V
Terminal resistance	1.69 Ω
No-load speed	15800 rpm
No-load current	0.10 A
Stall torque	28 mNm
Stall current	5.3 A
Nominal torque	11.5 mNm
Nominal speed	6540 rpm
Nominal current	1.8 A
Max. output power	11 W
Max. efficiency	74.7 %
Back-EMF constant	0.6 mV/rpm
Torque constant	5.3 mNm/A
KV Value	1758 rpm/V
Speed/torque gradient	567.9 rpm/mNm
Rotor inertia	1.7 gcm ²
Weight	7.8 g
Thermal resistance housing-ambient	7.9 K/W
Thermal resistance winding-housing	6.4 K/W
Thermal time constant motor	123 s
Thermal time constant winding	100 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1 N
Axial load static	25 N
Radial load at 3 mm from mounting face	6.3 N
No. of pole pairs	5
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01709NB2B

17mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1709nb2b/>



Produkte:

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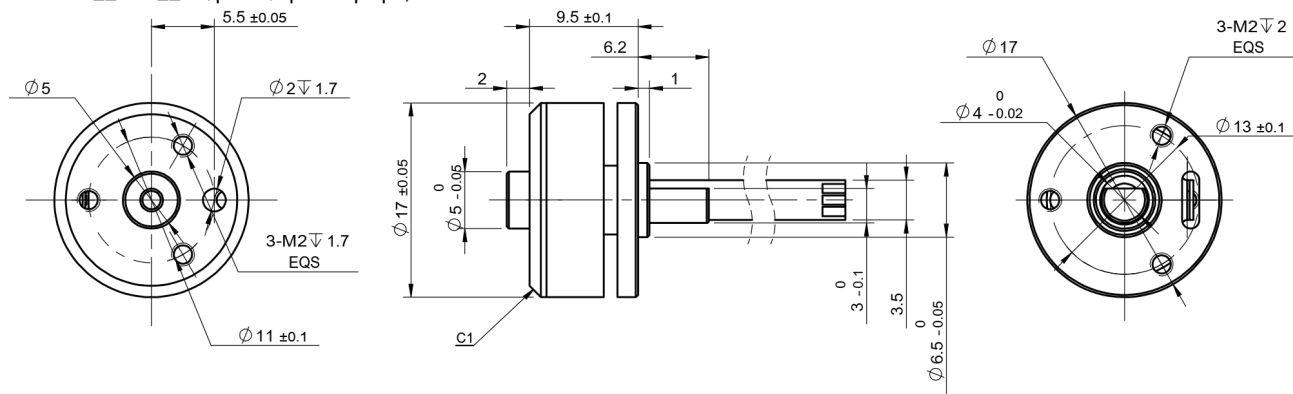
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B01709NB2B01-260-10.0

17mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1709nb2b01-260-10-0/>



Specification	
Voltage	10.0 V
Terminal resistance	4.3 Ω
Terminal inductance	0.46 mH
No-load speed	26000 rpm
No-load current	0.12 A
Stall torque	7.7 mNm
Stall current	2.3 A
Nominal torque	1.9 mNm
Nominal speed	16380 rpm
Nominal current	0.7 A
Max. output power	5.2 W
Max. efficiency	60 %
Back-EMF constant	0.4 mV/rpm
Torque constant	3.5 mNm/A
Speed/torque gradient	3384 rpm/mNm
Rotor inertia	1.2 gcm ²
Weight	7.5 g
Thermal resistance housing-ambient	15.4 K/W
Thermal resistance winding-housing	13.6 K/W
Thermal time constant motor	128 s
Thermal time constant winding	43 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Protection class	30 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B01709NB2B02-142-10.0

17mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1709nb2b02-142-10-0/>



Specification	
Voltage	10.0 V
Terminal resistance	17.9 Ω
Terminal inductance	1.6 mH
No-load speed	14200 rpm
No-load current	0.05 A
Stall torque	3.1 mNm
Stall current	0.55 A
Nominal torque	1.9 mNm
Nominal speed	850 rpm
Nominal current	0.4 A
Max. output power	1.2 W
Max. efficiency	49 %
Back-EMF constant	0.6 mV/rpm
Torque constant	6.1 mNm/A
Speed/torque gradient	4559 rpm/mNm
Rotor inertia	1.2 gcm ²
Weight	7.5 g
Thermal resistance housing-ambient	15.4 K/W
Thermal resistance winding-housing	13.6 K/W
Thermal time constant motor	128 s
Thermal time constant winding	43 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Protection class	30 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B01808NBH2B

18mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo1808nbh2b/>



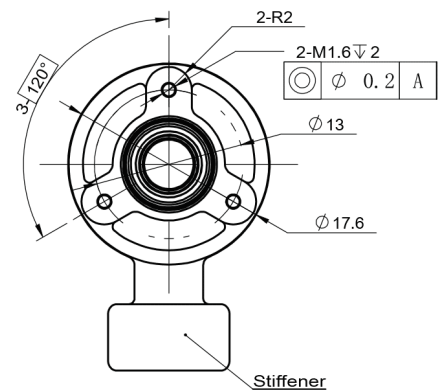
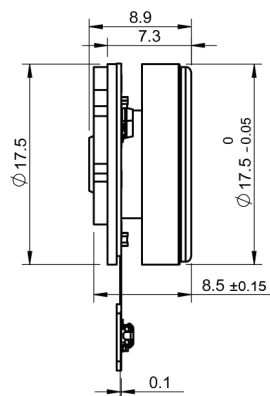
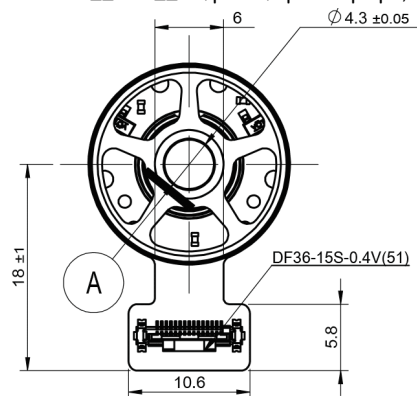
Produkte:

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B01808NBH2B01-140-11.4

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B01808NBH2B01-140-11.4

18mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo1808nbh2b01-140-11-4/>



Specification	
Voltage	11.4 V
Terminal resistance	14.5 Ω
Terminal inductance	0.8 mH
No-load speed	14300 rpm
No-load current	0.12 A
Stall torque	4.3 mNm
Stall current	0.8 A
Nominal torque	1.2 mNm
Nominal speed	7790 rpm
Nominal current	0.3 A
Max. output power	1.6 W
Max. efficiency	37.1 %
Back-EMF constant	0.7 mV/rpm
Torque constant	6.5 mNm/A
Speed/torque gradient	3327 rpm/mNm
Rotor inertia	1.4 gcm ²
Weight	6.5 g
Thermal resistance housing-ambient	36.8 K/W
Thermal resistance winding-housing	2.4 K/W
Thermal time constant motor	110 s
Thermal time constant winding	115 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.8 N
Axial load static	45 N
Radial load at 3 mm from mounting face	9 N
No. of pole pairs	4
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B01812N2B

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1812n2b/>



Produkte:

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B01812N2B01-158-6.0

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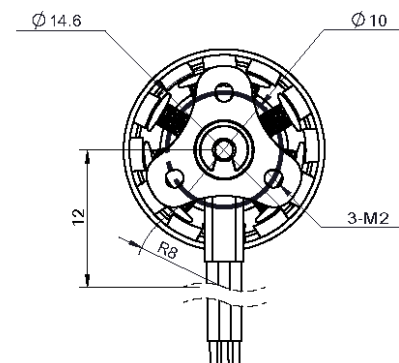
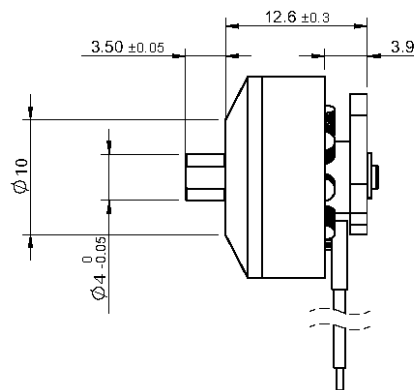
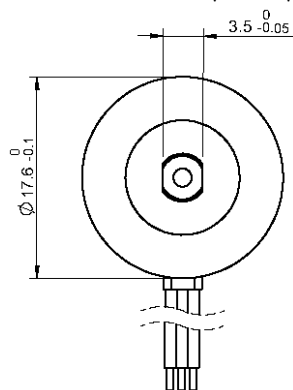
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B01812N2B03-158-12.0

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B01812N2B01-158-6.0

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1812n2b01-158-6-0/>



Specification	
Voltage	6.0 V
Terminal resistance	0.43 Ω
No-load speed	15800 rpm
No-load current	0.14 A
Stall torque	49.6 mNm
Stall current	14.0 A
Nominal torque	9.4 mNm
Nominal speed	9690 rpm
Nominal current	2.1 A
Max. output power	20.6 W
Max. efficiency	81.2 %
Back-EMF constant	0.38 mV/rpm
Torque constant	3.6 mNm/A
KV Value	2630 rpm/V
Speed/torque gradient	318.4 rpm/mNm
Rotor inertia	2.1 gcm ²
Weight	11 g
Thermal resistance housing-ambient	10.6 K/W
Thermal resistance winding-housing	14.6 K/W
Thermal time constant motor	142 s
Thermal time constant winding	99 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver
- bearing type

Anwendungen

- UAV
- aeromodelling

B01812N2B02-158-9.0

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1812n2b02-158-9-0/>



Specification	
Voltage	9.0 V
Terminal resistance	0.96 Ω
No-load speed	15800 rpm
No-load current	0.10 A
Stall torque	49.9 mNm
Stall current	9.4 A
Nominal torque	10.3 mNm
Nominal speed	9580 rpm
Nominal current	2.1 A
Max. output power	20.7 W
Max. efficiency	80.0 %
Back-EMF constant	0.56 mV/rpm
Torque constant	5.4 mNm/A
KV Value	1750 rpm/V
Speed/torque gradient	316.8 rpm/mNm
Rotor inertia	2.1 gcm ²
Weight	11 g
Thermal resistance housing-ambient	10.6 K/W
Thermal resistance winding-housing	14.6 K/W
Thermal time constant motor	142 s
Thermal time constant winding	99 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver
- bearing type

Anwendungen

- UAV
- aeromodelling

B01812N2B03-158-12.0

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1812n2b03-158-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	1.70 Ω
No-load speed	15800 rpm
No-load current	0.08 A
Stall torque	50.1 mNm
Stall current	7.1 A
Nominal torque	9.9 mNm
Nominal speed	10200 rpm
Nominal current	1.5 A
Max. output power	20.7 W
Max. efficiency	80.2 %
Back-EMF constant	0.75 mV/rpm
Torque constant	7.2 mNm/A
KV Value	1320 rpm/V
Speed/torque gradient	315.5 rpm/mNm
Rotor inertia	2.1 gcm ²
Weight	11 g
Thermal resistance housing-ambient	10.6 K/W
Thermal resistance winding-housing	14.6 K/W
Thermal time constant motor	142 s
Thermal time constant winding	99 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver
- bearing type

Anwendungen

- UAV
- aeromodelling

B01815N2B

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1815n2b/>



Produkte:

Seite

B01815N2B01-199-6.0

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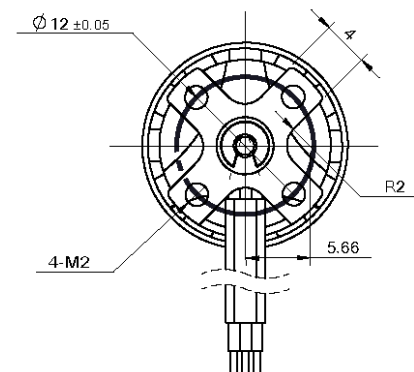
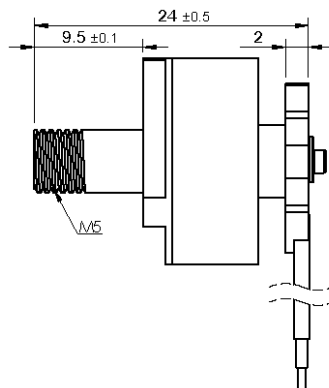
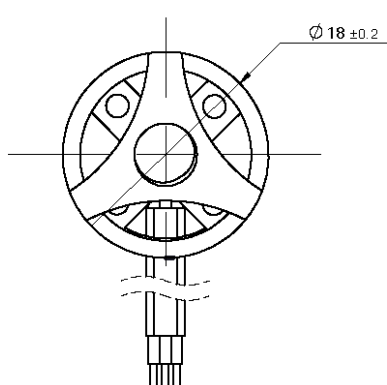
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B01815N2B03-199-12.0

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B01815N2B01-199-6.0

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1815n2b01-199-6-0/>



Specification	
Voltage	6.0 V
Terminal resistance	0.21 Ω
No-load speed	19900 rpm
No-load current	0.32 A
Stall torque	81 mNm
Stall current	28.9 A
Nominal torque	18.0 mNm
Nominal speed	9550 rpm
Nominal current	6.1 A
Max. output power	42 W
Max. efficiency	80.0 %
Back-EMF constant	0.3 mV/rpm
Torque constant	2.9 mNm/A
KV Value	3307 rpm/V
Speed/torque gradient	243.5 rpm/mNm
Rotor inertia	2.8 gcm ²
Weight	11 g
Thermal resistance housing-ambient	2.8 K/W
Thermal resistance winding-housing	2.4 K/W
Thermal time constant motor	173 s
Thermal time constant winding	112 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01815N2B02-199-9.0

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1815n2b02-199-9-0/>



Specification	
Voltage	9.0 V
Terminal resistance	0.43 Ω
No-load speed	19900 rpm
No-load current	0.21 A
Stall torque	89 mNm
Stall current	21.1 A
Nominal torque	17.1 mNm
Nominal speed	11100 rpm
Nominal current	4.6 A
Max. output power	47 W
Max. efficiency	81.1 %
Back-EMF constant	0.4 mV/rpm
Torque constant	4.3 mNm/A
KV Value	2212 rpm/V
Speed/torque gradient	223.2 rpm/mNm
Rotor inertia	2.8 gcm ²
Weight	11 g
Thermal resistance housing-ambient	2.8 K/W
Thermal resistance winding-housing	2.4 K/W
Thermal time constant motor	173 s
Thermal time constant winding	112 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01815N2B03-199-12.0

18mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1815n2b03-199-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.72 Ω
No-load speed	19900 rpm
No-load current	0.14 A
Stall torque	94 mNm
Stall current	16.7 A
Nominal torque	18.5 mNm
Nominal speed	11070 rpm
Nominal current	3.7 A
Max. output power	49 W
Max. efficiency	82.6 %
Back-EMF constant	0.6 mV/rpm
Torque constant	5.7 mNm/A
KV Value	1664 rpm/V
Speed/torque gradient	212.0 rpm/mNm
Rotor inertia	2.8 gcm ²
Weight	11 g
Thermal resistance housing-ambient	2.8 K/W
Thermal resistance winding-housing	2.4 K/W
Thermal time constant motor	173 s
Thermal time constant winding	112 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02008NBH2B

20mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo2008nbh2b/>



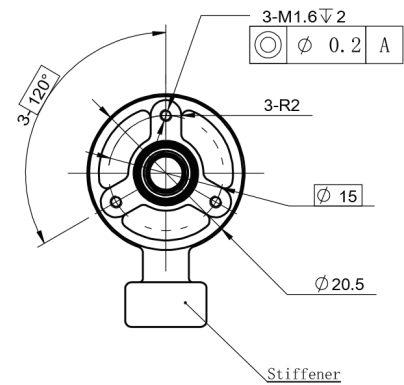
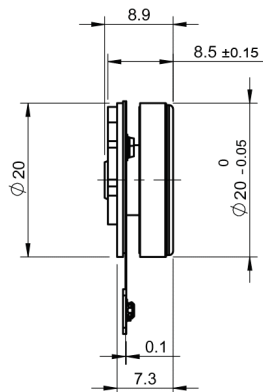
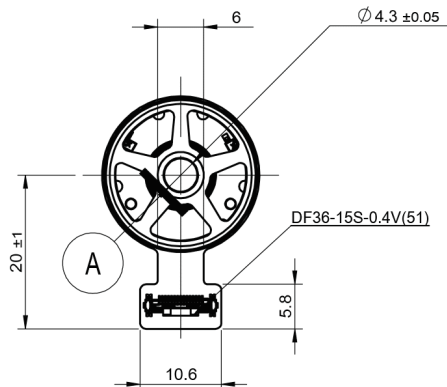
Produkte:

Seite

B02008NBH2B01-73-11.4

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B02008NBH2B01-73-11.4

20mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo2008nbh2b01-73-11-4/>



Specification	
Voltage	11.4 V
Terminal resistance	26.0 Ω
Terminal inductance	2.30 mH
No-load speed	7200 rpm
No-load current	0.05 A
Stall torque	5.2 mNm
Stall current	0.4 A
Nominal torque	2.8 mNm
Nominal speed	1080 rpm
Nominal current	0.3 A
Max. output power	1.0 W
Max. efficiency	43.8 %
Back-EMF constant	1.4 mV/rpm
Torque constant	13.4 mNm/A
Speed/torque gradient	1384 rpm/mNm
Rotor inertia	2.0 gcm ²
Weight	6.8 g
Thermal resistance housing-ambient	28.9 K/W
Thermal resistance winding-housing	8.6 K/W
Thermal time constant motor	135 s
Thermal time constant winding	165 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.8 N
Axial load static	45 N
Radial load at 3 mm from mounting face	9 N
No. of pole pairs	4
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- Lidar
- UAV gimbals
- handheld gimbals

B02010NB2B

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2010nb2b/>



Produkte:

Seite

B02010NB2B03-280-12.0

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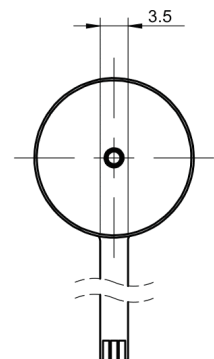
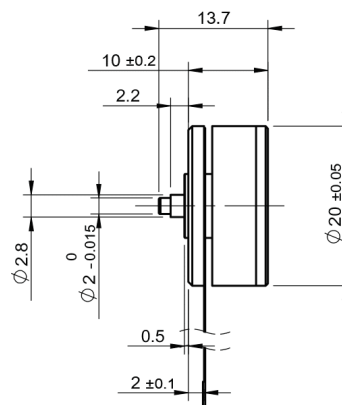
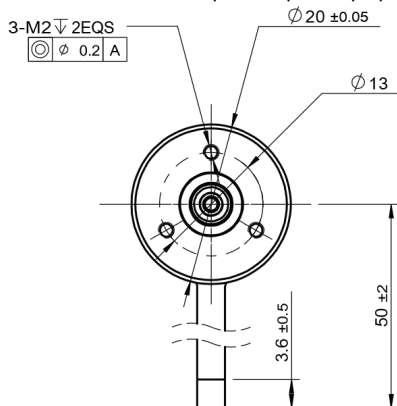
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B02010NB2B12-108-9.0

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include __DIR__ . "/parts/spacer.php";



B02010NB2B03-280-12.0

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2010nb2b03-280-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	2.2 Ω
Terminal inductance	0.29 mH
No-load speed	28000 rpm
No-load current	0.2 A
Stall torque	21.4 mNm
Stall current	5.5 A
Nominal torque	3.5 mNm
Nominal speed	21420 rpm
Nominal current	1.0 A
Max. output power	15.0 W
Max. efficiency	72 %
Back-EMF constant	0.4 mV/rpm
Torque constant	4.0 mNm/A
Speed/torque gradient	1311 rpm/mNm
Rotor inertia	2.8 g·cm ²
Weight	9.6 g
Thermal resistance housing-ambient	12.5 K/W
Thermal resistance winding-housing	12 K/W
Thermal time constant motor	354 s
Thermal time constant winding	15 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02010NB2B05-178-10.0

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2010nb2b05-178-10-0/>



Specification	
Voltage	10.0 V
Terminal resistance	3.2 Ω
Terminal inductance	0.47 mH
No-load speed	17800 rpm
No-load current	0.1 A
Stall torque	15.7 mNm
Stall current	3.1 A
Nominal torque	4.1 mNm
Nominal speed	11120 rpm
Nominal current	0.9 A
Max. output power	7.3 W
Max. efficiency	67 %
Back-EMF constant	0.5 mV/rpm
Torque constant	5.2 mNm/A
Speed/torque gradient	1133 rpm/mNm
Rotor inertia	2.8 g·cm ²
Weight	9.6 g
Thermal resistance housing-ambient	12.5 K/W
Thermal resistance winding-housing	12 K/W
Thermal time constant motor	354 s
Thermal time constant winding	15 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02010NB2B12-108-9.0

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2010nb2b12-108-9-0/>



Specification	
Voltage	9.0 V
Terminal resistance	9.0 Ω
Terminal inductance	1.2 mH
No-load speed	10800 rpm
No-load current	0.05 A
Stall torque	7.1 mNm
Stall current	1.0 A
Nominal torque	4.0 mNm
Nominal speed	4230 rpm
Nominal current	0.52 A
Max. output power	2.0 W
Max. efficiency	60 %
Back-EMF constant	0.8 mV/rpm
Torque constant	7.5 mNm/A
Speed/torque gradient	1503 rpm/mNm
Rotor inertia	2.8 g·cm ²
Weight	9.6 g
Thermal resistance housing-ambient	12.5 K/W
Thermal resistance winding-housing	12 K/W
Thermal time constant motor	354 s
Thermal time constant winding	15 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02015NB2B

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2015nb2b/>



Produkte:

Seite

B02015NB2B03-113-12.0

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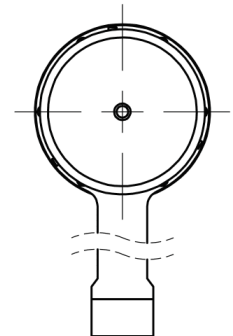
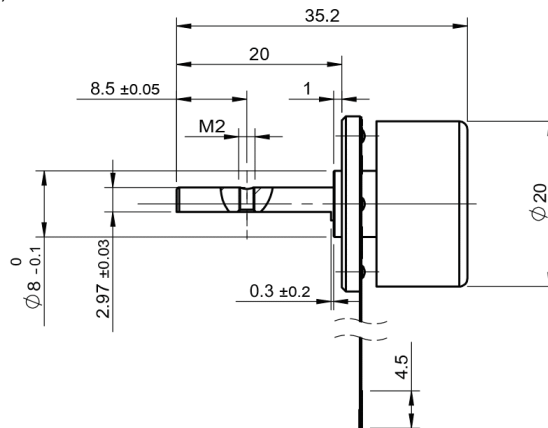
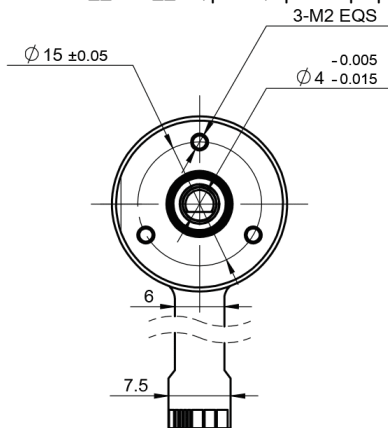
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B02015NB2B04-135-24.0

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B02015NB2B03-113-12.0

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2015nb2b03-113-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	3.8 Ω
Terminal inductance	0.61 mH
No-load speed	11300 rpm
No-load current	0.08 mA
Stall torque	30.4 mNm
Stall current	3.2 mA
Nominal torque	9.1 mNm
Nominal speed	6440 rpm
Nominal current	1.01 mA
Max. output power	9 W
Max. efficiency	71 %
Back-EMF constant	1 mV/rpm
Torque constant	9.9 mNm/A
Speed/torque gradient	370 rpm/mNm
Rotor inertia	6.7 g·cm ²
Weight	21 g
Thermal resistance housing-ambient	9.5 K/W
Thermal resistance winding-housing	8 K/W
Thermal time constant motor	354 s
Thermal time constant winding	23 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.08 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- Hall-sensor
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02015NB2B12-137-5.0

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2015nb2b12-137-5-0/>



Specification	
Voltage	5.0 V
Terminal resistance	0.65 Ω
Terminal inductance	0.063 mH
No-load speed	13700 rpm
No-load current	0.2 mA
Stall torque	25.4 mNm
Stall current	7.7 mA
Nominal torque	7.4 mNm
Nominal speed	7940 rpm
Nominal current	2.40 mA
Max. output power	9.1 W
Max. efficiency	70 %
Back-EMF constant	0.4 mV/rpm
Torque constant	3.4 mNm/A
Speed/torque gradient	539 rpm/mNm
Rotor inertia	6.7 g·cm ²
Weight	21 g
Thermal resistance housing-ambient	9.5 K/W
Thermal resistance winding-housing	8 K/W
Thermal time constant motor	354 s
Thermal time constant winding	23 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.08 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- Hall-sensor
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02015NB2B04-135-24.0

20mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2015nb2b04-135-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	11 Ω
Terminal inductance	1.7 mH
No-load speed	13500 rpm
No-load current	0.04 mA
Stall torque	35.6 mNm
Stall current	2.1 mA
Nominal torque	14.5 mNm
Nominal speed	6400 rpm
Nominal current	0.93 mA
Max. output power	12.6 W
Max. efficiency	74 %
Back-EMF constant	1.7 mV/rpm
Torque constant	16.6 mNm/A
Speed/torque gradient	378 rpm/mNm
Rotor inertia	6.7 g·cm ²
Weight	21 g
Thermal resistance housing-ambient	9.5 K/W
Thermal resistance winding-housing	8 K/W
Thermal time constant motor	354 s
Thermal time constant winding	23 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.08 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- Hall-sensor
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02316N2B

23mm BLDC outer rotor, sensorless

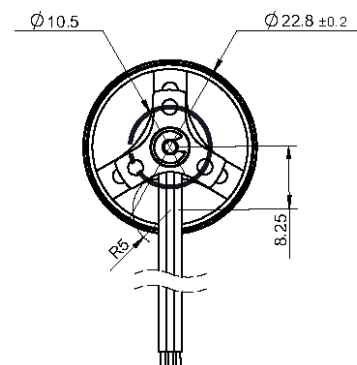
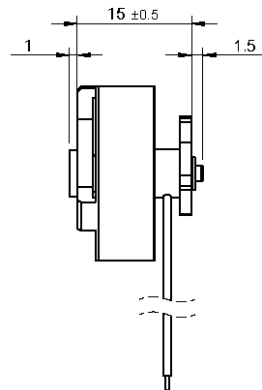
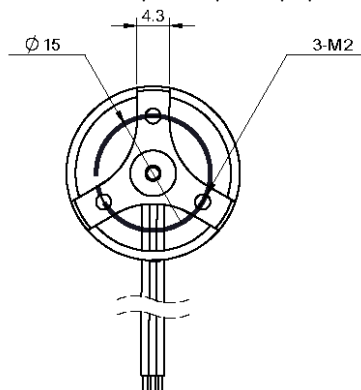


<https://www.kocomotion.de/produkt/bo2316n2b/>



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B02316N2B01-170-6.0

23mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2316n2b01-170-6-0/>



Specification	
Voltage	6.0 V
Terminal resistance	0.13 Ω
No-load speed	17000 rpm
No-load current	0.34 A
Stall torque	158 mNm
Stall current	47.2 A
Nominal torque	30.4 mNm
Nominal speed	7310 rpm
Nominal current	8.1 A
Max. output power	70 W
Max. efficiency	83.6 %
Back-EMF constant	0.4 mV/rpm
Torque constant	3.4 mNm/A
KV Value	2810 rpm/V
Speed/torque gradient	106.6 rpm/mNm
Rotor inertia	6.3 g·cm ²
Weight	15 g
Thermal resistance housing-ambient	3 K/W
Thermal resistance winding-housing	2.5 K/W
Thermal time constant motor	160 s
Thermal time constant winding	26 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02316N2B02-170-9.0

23mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2316n2b02-170-9-0/>



Specification	
Voltage	9.0 V
Terminal resistance	0.28 Ω
No-load speed	17000 rpm
No-load current	0.24 A
Stall torque	160 mNm
Stall current	32.1 A
Nominal torque	30.0 mNm
Nominal speed	9920 rpm
Nominal current	6.3 A
Max. output power	71 W
Max. efficiency	83.5 %
Back-EMF constant	0.5 mV/rpm
Torque constant	5.0 mNm/A
KV Value	1887 rpm/V
Speed/torque gradient	105.9 rpm/mNm
Rotor inertia	6.3 g·cm ²
Weight	15 g
Thermal resistance housing-ambient	3 K/W
Thermal resistance winding-housing	2.5 K/W
Thermal time constant motor	160 s
Thermal time constant winding	26 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02316N2B03-170-12.0

23mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2316n2b03-170-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.45 Ω
No-load speed	17000 rpm
No-load current	0.19 A
Stall torque	177 mNm
Stall current	26.7 A
Nominal torque	30.3 mNm
Nominal speed	10560 rpm
Nominal current	4.9 A
Max. output power	79 W
Max. efficiency	83.6 %
Back-EMF constant	0.7 mV/rpm
Torque constant	6.7 mNm/A
KV Value	1420 rpm/V
Speed/torque gradient	96.4 rpm/mNm
Rotor inertia	6.3 g·cm ²
Weight	15 g
Thermal resistance housing-ambient	3 K/W
Thermal resistance winding-housing	2.5 K/W
Thermal time constant motor	160 s
Thermal time constant winding	26 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

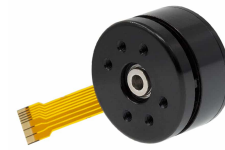
- UAV
- aeromodelling

B02414NB2B

24mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2414nb2b/>



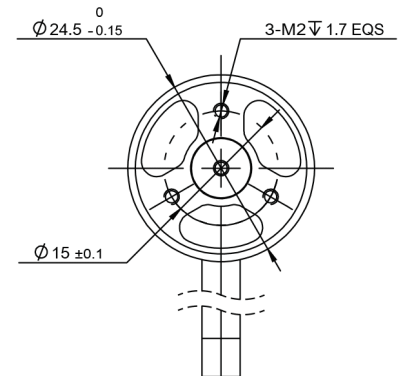
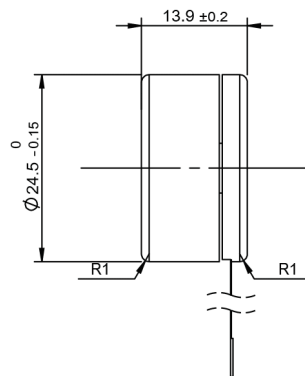
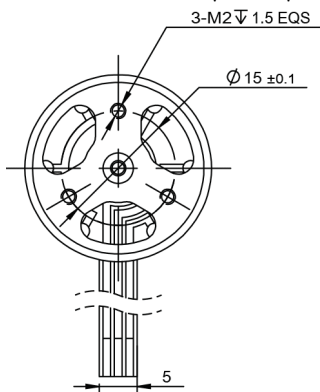
Produkte:

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B02414NB2B05-80-12.0

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include __DIR__ . "/parts/spacer.php";



B02414NB2B05-80-12.0

24mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2414nb2b05-80-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	4.3 Ω
Terminal inductance	1.3 mH
No-load speed	8000 rpm
No-load current	0.09 A
Stall torque	37.4 mNm
Stall current	2.8 A
Nominal torque	12.3 mNm
Nominal speed	4480 rpm
Nominal current	0.9 A
Max. output power	7.8 W
Max. efficiency	67.3 %
Back-EMF constant	1.45 mV/rpm
Torque constant	13.9 mNm/A
Speed/torque gradient	214 rpm/mNm
Rotor inertia	7.2 g·cm ²
Weight	15 g
Thermal resistance housing-ambient	13.7 K/W
Thermal resistance winding-housing	7.6 K/W
Thermal time constant motor	120 s
Thermal time constant winding	12 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B02814N2B

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2814n2b/>



Produkte:

Seite

B02814N2B01-153-12.0

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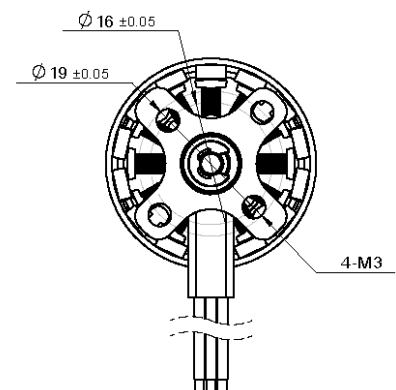
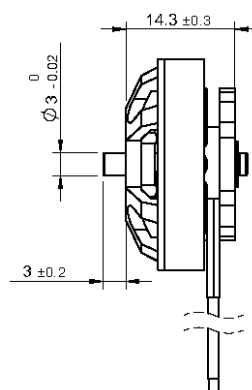
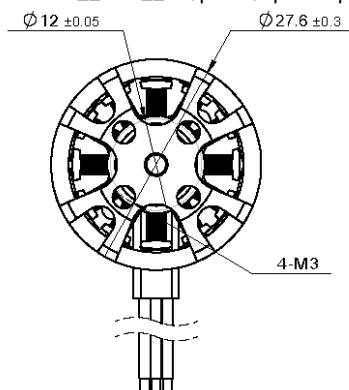
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B02814N2B03-153-36.0

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B02814N2B01-153-12.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2814n2b01-153-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.50 Ω
No-load speed	15300 rpm
No-load current	0.26 A
Stall torque	179 mNm
Stall current	24.2 A
Nominal torque	34.1 mNm
Nominal speed	9330 rpm
Nominal current	4.8 A
Max. output power	71 W
Max. efficiency	80.4 %
Back-EMF constant	0.8 mV/rpm
Torque constant	7.5 mNm/A
KV Value	1268 rpm/V
Speed/torque gradient	85.2 rpm/mNm
Rotor inertia	12 g·cm ²
Weight	21 g
Thermal resistance housing-ambient	2.5 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	180 s
Thermal time constant winding	25 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02814N2B02-153-24.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2814n2b02-153-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	1.70 Ω
No-load speed	15300 rpm
No-load current	0.12 A
Stall torque	207 mNm
Stall current	14.1 A
Nominal torque	35.0 mNm
Nominal speed	10390 rpm
Nominal current	2.4 A
Max. output power	83 W
Max. efficiency	82.0 %
Back-EMF constant	1.5 mV/rpm
Torque constant	14.8 mNm/A
KV Value	642 rpm/V
Speed/torque gradient	74.5 rpm/mNm
Rotor inertia	12 g·cm ²
Weight	21 g
Thermal resistance housing-ambient	2.5 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	180 s
Thermal time constant winding	25 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02814N2B03-153-36.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2814n2b03-153-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	3.77 Ω
No-load speed	15300 rpm
No-load current	0.12 A
Stall torque	209 mNm
Stall current	9.6 A
Nominal torque	30.6 mNm
Nominal speed	10980 rpm
Nominal current	1.5 A
Max. output power	84 W
Max. efficiency	78.8 %
Back-EMF constant	2.3 mV/rpm
Torque constant	22.2 mNm/A
KV Value	425 rpm/V
Speed/torque gradient	73.0 rpm/mNm
Rotor inertia	12 g·cm ²
Weight	21 g
Thermal resistance housing-ambient	2.5 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	180 s
Thermal time constant winding	25 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02820N2B

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2820n2b/>



Produkte:

Seite

B02820N2B01-140-12.0

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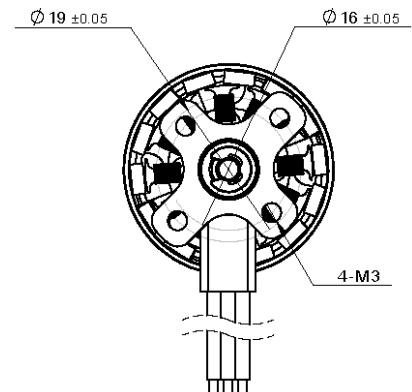
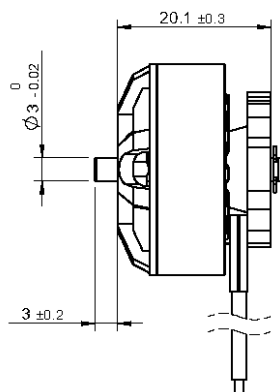
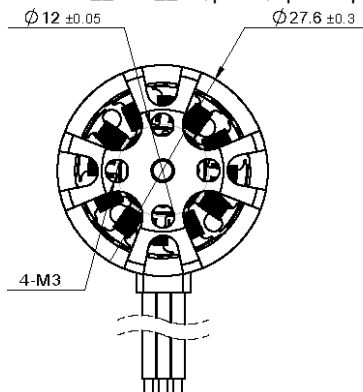
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B02820N2B03-140-36.0

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B02820N2B01-140-12.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2820n2b01-140-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.14 Ω
No-load speed	14000 rpm
No-load current	0.48 A
Stall torque	698 mNm
Stall current	86.3 A
Nominal torque	68.5 mNm
Nominal speed	10350 rpm
Nominal current	9.1 A
Max. output power	256 W
Max. efficiency	85.6 %
Back-EMF constant	0.9 mV/rpm
Torque constant	8.1 mNm/A
KV Value	1168 rpm/V
Speed/torque gradient	20.1 rpm/mNm
Rotor inertia	19 g·cm ²
Weight	41 g
Thermal resistance housing-ambient	2.3 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	280 s
Thermal time constant winding	37 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02820N2B02-140-24.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2820n2b02-140-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.58 Ω
No-load speed	14000 rpm
No-load current	0.24 A
Stall torque	664 mNm
Stall current	41.2 A
Nominal torque	75.1 mNm
Nominal speed	10680 rpm
Nominal current	4.7 A
Max. output power	244 W
Max. efficiency	85.1 %
Back-EMF constant	1.7 mV/rpm
Torque constant	16.2 mNm/A
KV Value	585 rpm/V
Speed/torque gradient	21.2 rpm/mNm
Rotor inertia	19 g·cm ²
Weight	41 g
Thermal resistance housing-ambient	2.3 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	280 s
Thermal time constant winding	37 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02820N2B03-140-36.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2820n2b03-140-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	1.22 Ω
No-load speed	14000 rpm
No-load current	0.16 A
Stall torque	718 mNm
Stall current	29.6 A
Nominal torque	73.0 mNm
Nominal speed	11310 rpm
Nominal current	3.0 A
Max. output power	263 W
Max. efficiency	85.9 %
Back-EMF constant	2.6 mV/rpm
Torque constant	24.4 mNm/A
KV Value	289 rpm/V
Speed/torque gradient	19.5 rpm/mNm
Rotor inertia	19 g·cm ²
Weight	41 g
Thermal resistance housing-ambient	2.3 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	280 s
Thermal time constant winding	37 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02824N2B

28mm BLDC outer rotor, sensorless

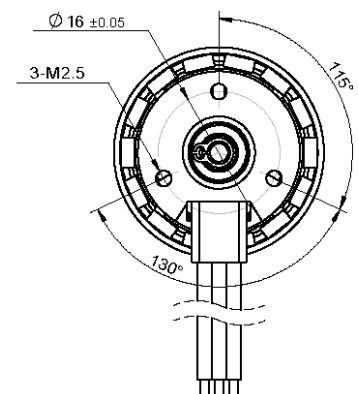
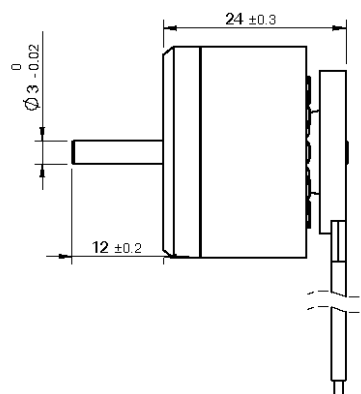
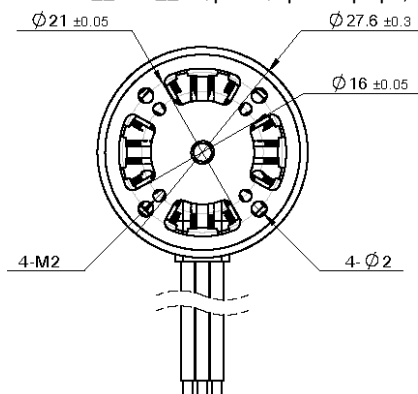


<https://www.kocomotion.de/produkt/bo2824n2b/>



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B02824N2B01-98-12.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2824n2b01-98-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.18 Ω
No-load speed	9800 rpm
No-load current	0.37 A
Stall torque	752 mNm
Stall current	65.2 A
Nominal torque	79.9 mNm
Nominal speed	7430 rpm
Nominal current	6.9 A
Max. output power	193 W
Max. efficiency	85.5 %
Back-EMF constant	1.2 mV/rpm
Torque constant	11.6 mNm/A
KV Value	819 rpm/mNm
Speed/torque gradient	13.1 rpm/mNm
Rotor inertia	27 g·cm ²
Weight	47 g
Thermal resistance housing-ambient	2 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	290 s
Thermal time constant winding	41 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02824N2B02-98-24.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2824n2b02-98-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.74 Ω
No-load speed	9800 rpm
No-load current	0.19 A
Stall torque	749 mNm
Stall current	32.7 A
Nominal torque	75.5 mNm
Nominal speed	8040 rpm
Nominal current	3.3 A
Max. output power	194 W
Max. efficiency	85.3 %
Back-EMF constant	2.4 mV/rpm
Torque constant	23.1 mNm/A
KV Value	412 rpm/mNm
Speed/torque gradient	13.2 rpm/mNm
Rotor inertia	27 g·cm ²
Weight	47 g
Thermal resistance housing-ambient	2 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	290 s
Thermal time constant winding	41 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02824N2B03-98-36.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2824n2b03-98-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	1.62 Ω
No-load speed	9800 rpm
No-load current	0.12 A
Stall torque	769 mNm
Stall current	22.2 A
Nominal torque	73.2 mNm
Nominal speed	8040 rpm
Nominal current	2.2 A
Max. output power	198 W
Max. efficiency	86.1 %
Back-EMF constant	3.6 mV/rpm
Torque constant	34.8 mNm/A
KV Value	273 rpm/mNm
Speed/torque gradient	12.8 rpm/mNm
Rotor inertia	27 g·cm ²
Weight	47 g
Thermal resistance housing-ambient	2 K/W
Thermal resistance winding-housing	2 K/W
Thermal time constant motor	290 s
Thermal time constant winding	41 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02826N2B

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2826n2b/>



Produkte:

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B02826N2B01-104-12.0

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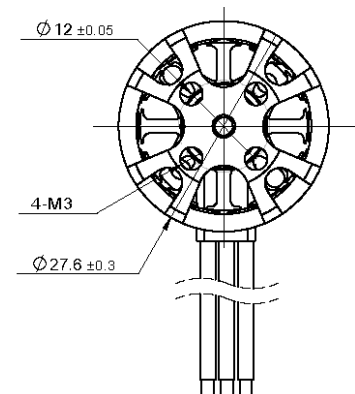
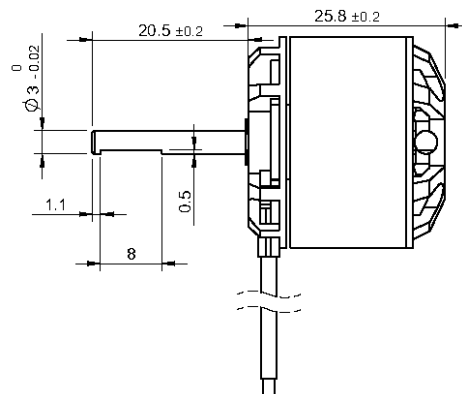
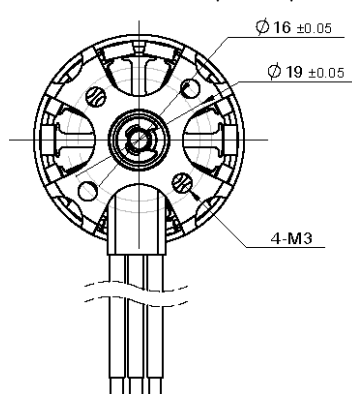
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B02826N2B03-104-36.0

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B02826N2B01-104-12.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2826n2b01-104-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.14 Ω
No-load speed	10400 rpm
No-load current	0.44 A
Stall torque	904 mNm
Stall current	83.3 A
Nominal torque	86.7 mNm
Nominal speed	7820 rpm
Nominal current	8.1 A
Max. output power	247 W
Max. efficiency	86.0 %
Back-EMF constant	1.1 mV/rpm
Torque constant	10.9 mNm/A
KV Value	871 rpm/V
Speed/torque gradient	11.6 rpm/mNm
Rotor inertia	31 g·cm ²
Weight	53 g
Thermal resistance housing-ambient	1.7 K/W
Thermal resistance winding-housing	1.8 K/W
Thermal time constant motor	300 s
Thermal time constant winding	43 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- plane
- aeromodelling

B02826N2B02-104-24.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2826n2b02-104-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.58 Ω
No-load speed	10400 rpm
No-load current	0.23 A
Stall torque	912 mNm
Stall current	41.7 A
Nominal torque	89.5 mNm
Nominal speed	8040 rpm
Nominal current	4.1 A
Max. output power	248 W
Max. efficiency	85.7 %
Back-EMF constant	2.3 mV/rpm
Torque constant	22.0 mNm/A
KV Value	433 rpm/V
Speed/torque gradient	11.4 rpm/mNm
Rotor inertia	31 g·cm ²
Weight	53 g
Thermal resistance housing-ambient	1.7 K/W
Thermal resistance winding-housing	1.8 K/W
Thermal time constant motor	300 s
Thermal time constant winding	43 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- plane
- aeromodelling

B02826N2B03-104-36.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2826n2b03-104-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	1.26 Ω
No-load speed	10400 rpm
No-load current	0.15 A
Stall torque	931 mNm
Stall current	28.6 A
Nominal torque	89.6 mNm
Nominal speed	8500 rpm
Nominal current	2.7 A
Max. output power	254 W
Max. efficiency	86.2 %
Back-EMF constant	3.4 mV/rpm
Torque constant	32.8 mNm/A
KV Value	290 rpm/V
Speed/torque gradient	11.2 rpm/mNm
Rotor inertia	31 g·cm ²
Weight	53 g
Thermal resistance housing-ambient	1.7 K/W
Thermal resistance winding-housing	1.8 K/W
Thermal time constant motor	300 s
Thermal time constant winding	43 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- plane
- aeromodelling

B02828N2B

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2828n2b/>



Produkte:

Seite

B02828N2B01-112-12.0

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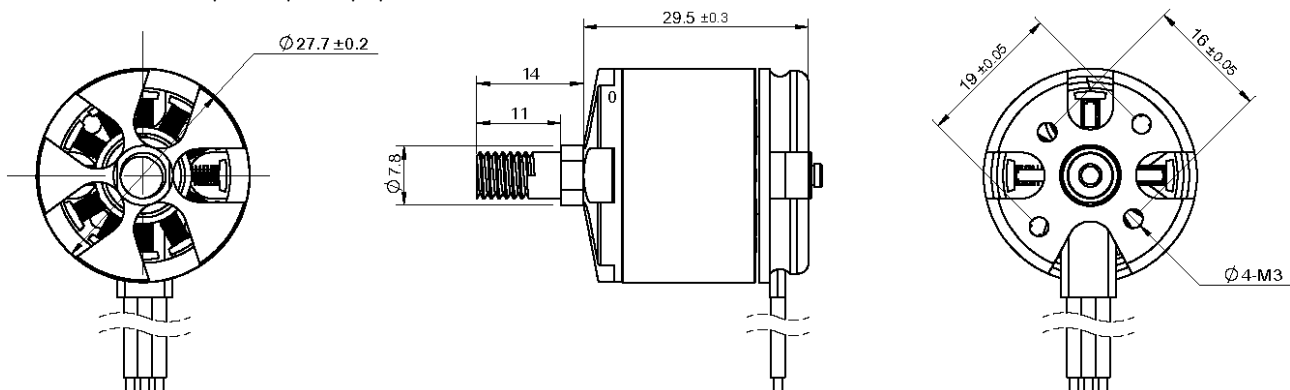
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98

B02828N2B03-112-36.0

100

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B02828N2B01-112-12.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2828n2b01-112-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.09 Ω
No-load speed	11200 rpm
No-load current	0.63 A
Stall torque	1301 mNm
Stall current	127.7 A
Nominal torque	122.7 mNm
Nominal speed	7320 rpm
Nominal current	11.3 A
Max. output power	379 W
Max. efficiency	86.4 %
Back-EMF constant	1.1 mV/rpm
Torque constant	10.2 mNm/A
KV Value	928 rpm/V
Speed/torque gradient	8.6 rpm/mNm
Rotor inertia	35 g·cm ²
Weight	61 g
Thermal resistance housing-ambient	1.6 K/W
Thermal resistance winding-housing	1.4 K/W
Thermal time constant motor	315 s
Thermal time constant winding	45 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	85 N
Radial load at 3 mm from mounting face	26 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02828N2B02-112-24.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2828n2b02-112-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.38 Ω
No-load speed	11200 rpm
No-load current	0.32 A
Stall torque	1289 mNm
Stall current	64.0 A
Nominal torque	119.9 mNm
Nominal speed	8750 rpm
Nominal current	5.9 A
Max. output power	380 W
Max. efficiency	86.3 %
Back-EMF constant	2.1 mV/rpm
Torque constant	20.2 mNm/A
KV Value	470 rpm/V
Speed/torque gradient	8.7 rpm/mNm
Rotor inertia	35 g·cm ²
Weight	61 g
Thermal resistance housing-ambient	1.6 K/W
Thermal resistance winding-housing	1.4 K/W
Thermal time constant motor	315 s
Thermal time constant winding	45 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	85 N
Radial load at 3 mm from mounting face	26 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B02828N2B03-112-36.0

28mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo2828n2b03-112-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.81 Ω
No-load speed	11200 rpm
No-load current	0.20 A
Stall torque	1357 mNm
Stall current	44.3 A
Nominal torque	156.8 mNm
Nominal speed	8540 rpm
Nominal current	4.8 A
Max. output power	395 W
Max. efficiency	87.1 %
Back-EMF constant	3.2 mV/rpm
Torque constant	30.8 mNm/A
KV Value	309 rpm/V
Speed/torque gradient	8.2 rpm/mNm
Rotor inertia	35 g·cm ²
Weight	61 g
Thermal resistance housing-ambient	1.6 K/W
Thermal resistance winding-housing	1.4 K/W
Thermal time constant motor	315 s
Thermal time constant winding	45 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	85 N
Radial load at 3 mm from mounting face	26 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

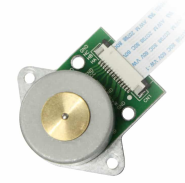
- UAV
- aeromodelling

B02914NBH2B

29mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo2914nbh2b/>



Produkte:

Seite

B02914NBH2B01-63-24.0

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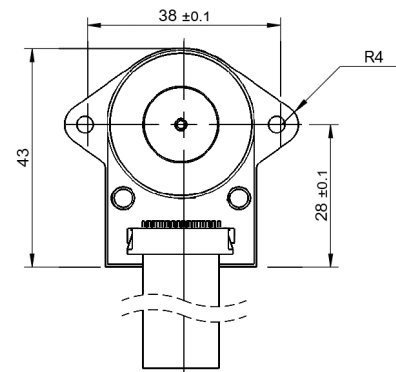
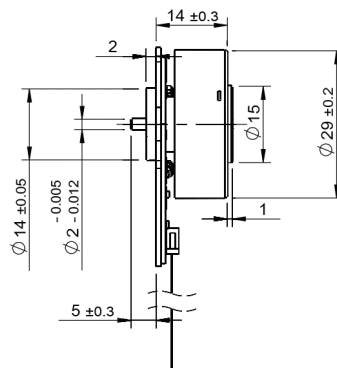
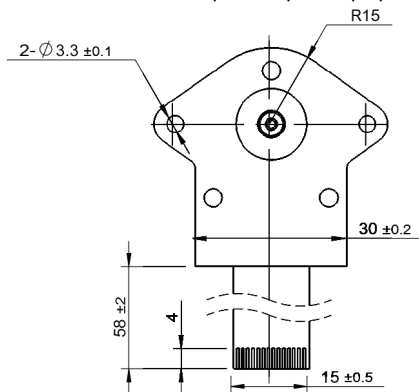
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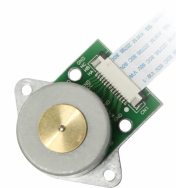


B02914NBH2B01-63-24.0

29mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo2914nbh2b01-63-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	9.7 Ω
No-load speed	6300 rpm
No-load current	0.1 A
Stall torque	83 mNm
Stall current	2.5 A
Nominal torque	19.1 mNm
Nominal speed	4000 rpm
Nominal current	0.56 A
Max. output power	13.7 W
Max. efficiency	63.8 %
Back-EMF constant	3.7 mV/rpm
Torque constant	34.9 mNm/A
KV Value	263 rpm/V
Speed/torque gradient	76 rpm/mNm
Rotor inertia	21 g·cm ²
Weight	48 g
Thermal resistance housing-ambient	13.5 K/W
Thermal resistance winding-housing	4.5 K/W
Thermal time constant motor	160 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.02 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

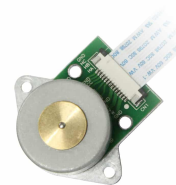
- medical equipment
- industrial automation

B02914NBH2B02-63-18.0

29mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo2914nbh2b02-63-18-0/>



Specification	
Voltage	24.0 V
Terminal resistance	9.7 Ω
No-load speed	6300 rpm
No-load current	0.1 A
Stall torque	83 mNm
Stall current	2.5 A
Nominal torque	19.1 mNm
Nominal speed	4000 rpm
Nominal current	0.56 A
Max. output power	13.7 W
Max. efficiency	63.8 %
Back-EMF constant	3.7 mV/rpm
Torque constant	34.9 mNm/A
KV Value	350 rpm/V
Speed/torque gradient	76 rpm/mNm
Rotor inertia	21 g·cm ²
Weight	48 g
Thermal resistance housing-ambient	13.5 K/W
Thermal resistance winding-housing	4.5 K/W
Thermal time constant motor	160 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.02 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

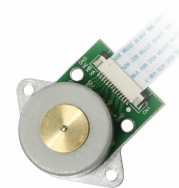
- medical equipment
- industrial automation

B02914NBH2B03-63-12.0

29mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo2914nbh2b03-63-12-0/>



Specification	
Voltage	24.0 V
Terminal resistance	9.7 Ω
No-load speed	6300 rpm
No-load current	0.1 A
Stall torque	83 mNm
Stall current	2.5 A
Nominal torque	19.1 mNm
Nominal speed	4000 rpm
Nominal current	0.56 A
Max. output power	13.7 W
Max. efficiency	63.8 %
Back-EMF constant	3.7 mV/rpm
Torque constant	34.9 mNm/A
KV Value	525 rpm/V
Speed/torque gradient	76 rpm/mNm
Rotor inertia	21 g·cm ²
Weight	48 g
Thermal resistance housing-ambient	13.5 K/W
Thermal resistance winding-housing	4.5 K/W
Thermal time constant motor	160 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.02 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

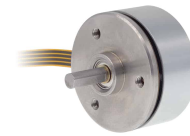
- medical equipment
- industrial automation

B03216NB2B

32mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3216nb2b/>



Produkte:

Seite

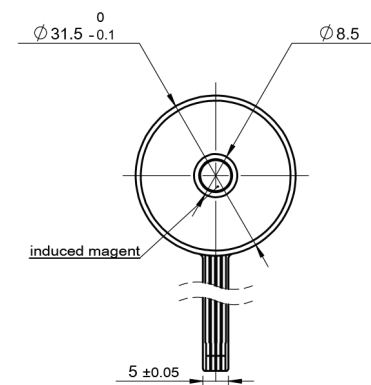
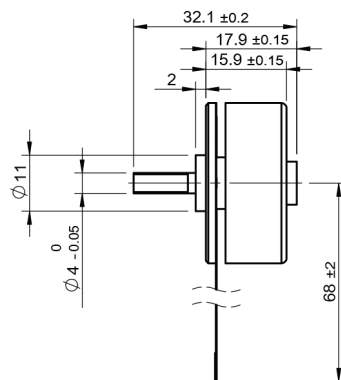
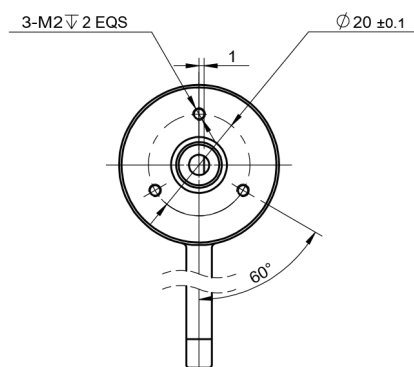
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110

B03216NB2B06-100-12.0

112

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B03216NB2B02-66-24.0

32mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3216nb2b02-66-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	4.2 Ω
Terminal inductance	1.34 mH
No-load speed	6600 rpm
No-load current	0.1 mA
Stall torque	189.5 mNm
Stall current	5.7 mA
Nominal torque	41.6 mNm
Nominal speed	4520 rpm
Nominal current	1.4 mA
Max. output power	32.7 W
Max. efficiency	73 %
Back-EMF constant	3.55 mV/rpm
Torque constant	34 mNm/A
Speed/torque gradient	35 rpm/mNm
Rotor inertia	32 g·cm ²
Weight	56 g
Thermal resistance housing-ambient	3.8 K/W
Thermal resistance winding-housing	4 K/W
Thermal time constant motor	110 s
Thermal time constant winding	6.9 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.08 mm

Specification	
Radial play	0.006 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

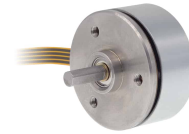
- UAV gimbals
- handheld gimbals

B03216NB2B06-100-12.0

32mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3216nb2b06-100-12-0/>



Specification	
Voltage	10 V
Terminal resistance	1.4 Ω
Terminal inductance	0.20 mH
No-load speed	9950 rpm
No-load current	0.2 mA
Stall torque	67.6 mNm
Stall current	7.4 mA
Nominal torque	21.9 mNm
Nominal speed	5290 rpm
Nominal current	2.6 mA
Max. output power	17.5 W
Max. efficiency	70 %
Back-EMF constant	0.98 mV/rpm
Torque constant	9 mNm/A
Speed/torque gradient	146 rpm/mNm
Rotor inertia	32 g·cm ²
Weight	56 g
Thermal resistance housing-ambient	3.8 K/W
Thermal resistance winding-housing	4 K/W
Thermal time constant motor	110 s
Thermal time constant winding	6.9 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.08 mm

Specification	
Radial play	0.006 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B03823N2B

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3823n2b/>



Produkte:

Seite

B03823N2B01-79-12.0

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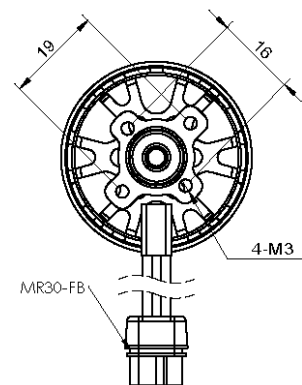
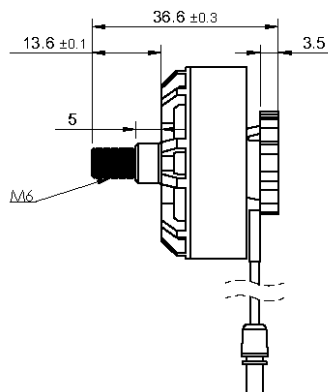
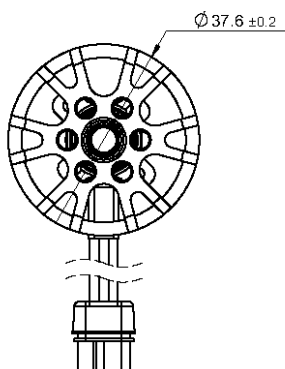
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B03823N2B03-79-36.0

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B03823N2B01-79-12.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3823n2b01-79-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.11 Ω
No-load speed	7900 rpm
No-load current	0.49 A
Stall torque	1534 mNm
Stall current	107.1 A
Nominal torque	173.5 mNm
Nominal speed	5690 rpm
Nominal current	12.3 A
Max. output power	318 W
Max. efficiency	86.9 %
Back-EMF constant	1.5 mV/rpm
Torque constant	14.4 mNm/A
KV Value	661 rpm/V
Speed/torque gradient	5.2 rpm/mNm
Rotor inertia	42 g·cm ²
Weight	73 g
Thermal resistance housing-ambient	1.3 K/W
Thermal resistance winding-housing	1.2 K/W
Thermal time constant motor	300 s
Thermal time constant winding	69 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- Drone Quadcopter
- UAV
- aeromodelling

B03823N2B02-79-24.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3823n2b02-79-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.47 Ω
No-load speed	7900 rpm
No-load current	0.26 A
Stall torque	1439 mNm
Stall current	50.6 A
Nominal torque	163.1 mNm
Nominal speed	6210 rpm
Nominal current	5.8 A
Max. output power	301 W
Max. efficiency	86.2 %
Back-EMF constant	3.0 mV/rpm
Torque constant	28.6 mNm/A
KV Value	333 rpm/V
Speed/torque gradient	5.5 rpm/mNm
Rotor inertia	42 g·cm ²
Weight	73 g
Thermal resistance housing-ambient	1.3 K/W
Thermal resistance winding-housing	1.2 K/W
Thermal time constant motor	300 s
Thermal time constant winding	69 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- Drone Quadcopter
- UAV
- aeromodelling

B03823N2B03-79-36.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3823n2b03-79-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	1.01 Ω
No-load speed	7900 rpm
No-load current	0.18 A
Stall torque	1529 mNm
Stall current	35.6 A
Nominal torque	164.2 mNm
Nominal speed	6300 rpm
Nominal current	3.8 A
Max. output power	317 W
Max. efficiency	86.4 %
Back-EMF constant	4.5 mV/rpm
Torque constant	43.2 mNm/A
KV Value	220 rpm/V
Speed/torque gradient	5.2 rpm/mNm
Rotor inertia	42 g·cm ²
Weight	73 g
Thermal resistance housing-ambient	1.3 K/W
Thermal resistance winding-housing	1.2 K/W
Thermal time constant motor	300 s
Thermal time constant winding	69 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	7
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- Drone Quadcopter
- UAV
- aeromodelling

B01012N2B

10mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1012n2b/>



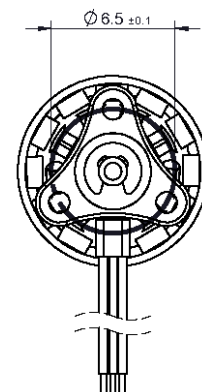
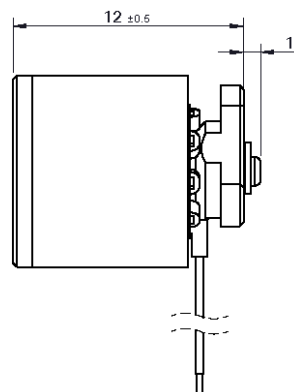
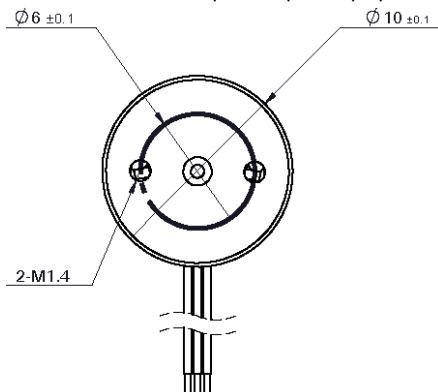
Produkte:

Seite

B01012N2B02-330-4.5

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B01012N2B02-330-4.5

10mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1012n2b02-330-4-5/>



Specification	
Voltage	4.5 V
Terminal resistance	0.65 Ω
No-load speed	33300 rpm
No-load current	0.35 A
Stall torque	8.0 mNm
Stall current	6.9 A
Nominal torque	1.5 mNm
Nominal speed	27100 rpm
Nominal current	1.56 A
Max. output power	7 W
Max. efficiency	60 %
Back-EMF constant	0.13 mV/rpm
Torque constant	1.2 mNm/A
KV Value	7400 rpm/V
Speed/torque gradient	4160.0 rpm/mNm
Rotor inertia	0.37 gcm ²
Weight	3.4 g
Thermal resistance housing-ambient	45.9 K/W
Thermal resistance winding-housing	18.5 K/W
Thermal time constant motor	105 s
Thermal time constant winding	80 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B03828N2B

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3828n2b/>



Produkte:

Seite

B03828N2B01-145-12.0

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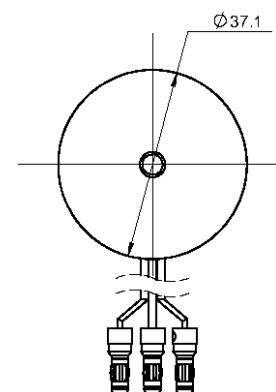
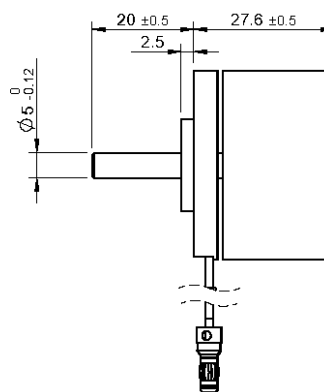
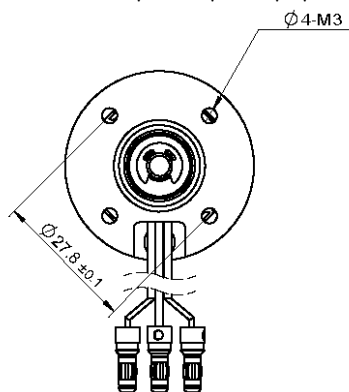
B03828N2B02-145-24.0

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B03828N2B03-145-36.0

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B03828N2B01-145-12.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3828n2b01-145-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.38 Ω
No-load speed	14500 rpm
No-load current	0.33 A
Stall torque	241 mNm
Stall current	31.3 A
Nominal torque	31.4 mNm
Nominal speed	9730 rpm
Nominal current	4.6 A
Max. output power	92 W
Max. efficiency	80.4 %
Back-EMF constant	0.8 mV/rpm
Torque constant	7.8 mNm/A
KV Value	7.8 mNm/A
Speed/torque gradient	60.5 rpm/mNm
Rotor inertia	96 g·cm ²
Weight	105 g
Thermal resistance housing-ambient	2.3 K/W
Thermal resistance winding-housing	1.8 K/W
Thermal time constant motor	110 s
Thermal time constant winding	35 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	2
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- medical equipment
- industrial automation

B03828N2B02-145-24.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3828n2b02-145-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	1.55 Ω
No-load speed	14500 rpm
No-load current	0.17 A
Stall torque	239 mNm
Stall current	15.5 A
Nominal torque	37.9 mNm
Nominal speed	10430 rpm
Nominal current	2.6 A
Max. output power	91 W
Max. efficiency	80.0 %
Back-EMF constant	1.6 mV/rpm
Torque constant	15.6 mNm/A
KV Value	15.6 mNm/A
Speed/torque gradient	60.9 rpm/mNm
Rotor inertia	96 g·cm ²
Weight	105 g
Thermal resistance housing-ambient	2.3 K/W
Thermal resistance winding-housing	1.8 K/W
Thermal time constant motor	110 s
Thermal time constant winding	35 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	2
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- medical equipment
- industrial automation

B03828N2B03-145-36.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3828n2b03-145-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	3.41 Ω
No-load speed	14500 rpm
No-load current	0.11 A
Stall torque	245 mNm
Stall current	10.5 A
Nominal torque	38.9 mNm
Nominal speed	9910 rpm
Nominal current	1.9 A
Max. output power	93 W
Max. efficiency	81.0 %
Back-EMF constant	2.5 mV/rpm
Torque constant	23.4 mNm/A
KV Value	23.4 mNm/A
Speed/torque gradient	59.3 rpm/mNm
Rotor inertia	96 g·cm ²
Weight	105 g
Thermal resistance housing-ambient	2.3 K/W
Thermal resistance winding-housing	1.8 K/W
Thermal time constant motor	110 s
Thermal time constant winding	35 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	2
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- medical equipment
- industrial automation

B01410NB2B

14mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1410nb2b/>



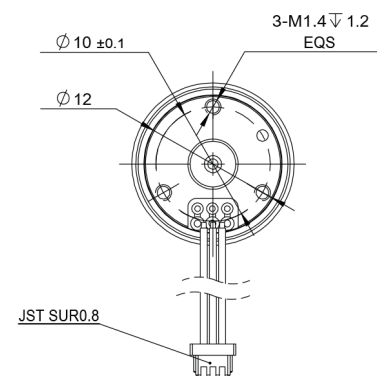
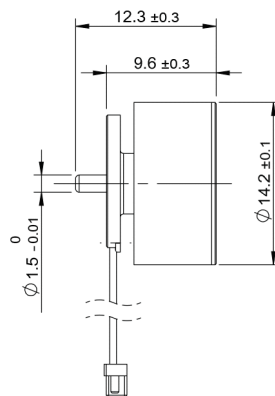
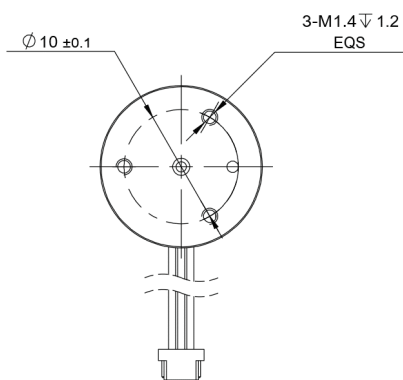
Produkte:

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B01410NB2B02-81-6.0

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B01410NB2B02-81-6.0

14mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1410nb2b02-81-6-0/>



Specification	
Voltage	6.0 V
Terminal resistance	13.4 Ω
Terminal inductance	0.74 mH
No-load speed	8100 rpm
No-load current	0.04 A
Stall torque	2.6 mNm
Stall current	0.45 A
Nominal torque	1.7 mNm
Nominal speed	-- rpm
Nominal current	0.32 A
Max. output power	0.6 W
Max. efficiency	52 %
Back-EMF constant	0.7 mV/rpm
Torque constant	6.5 mNm/A
Speed/torque gradient	3010 rpm/mNm
Rotor inertia	1.0 gcm ²
Weight	5.1 g
Thermal resistance housing-ambient	16 K/W
Thermal resistance winding-housing	15.3 K/W
Thermal time constant motor	105 s
Thermal time constant winding	28 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1 N
Axial load static	25 N
Radial load at 3 mm from mounting face	6.3 N
No. of pole pairs	4
Bearings	2 ball bearings
Protection class	30 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B01412N2B

14mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1412n2b/>



Produkte:

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B01412N2B04-308-5.0

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B01412N2B05-309-7.4

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B01412N2B06-330-12.0

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B01412N2B04-308-5.0

14mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1412n2b04-308-5-0/>



Specification	
Voltage	5.0 V
Terminal resistance	0.18 Ω
No-load speed	30800 rpm
No-load current	0.50 A
Stall torque	41 mNm
Stall current	27.0 A
Nominal torque	5 mNm
Nominal speed	22600 rpm
Nominal current	3.4 A
Max. output power	33 W
Max. efficiency	74 %
Back-EMF constant	0.16 mV/rpm
Torque constant	1.50 mNm/A
KV Value	6160 rpm/V
Speed/torque gradient	751 rpm/mNm
Rotor inertia	0.98 gcm ²
Weight	6 g
Thermal resistance housing-ambient	26.8 K/W
Thermal resistance winding-housing	0.52 K/W
Thermal time constant motor	226 s
Thermal time constant winding	200 s
Operating temperature range	-40~+100 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- Hall-sensor
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01412N2B05-309-7.4

14mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1412n2b05-309-7-4/>



Specification	
Voltage	7.4 V
Terminal resistance	0.4 Ω
No-load speed	30900 rpm
No-load current	0.28 A
Stall torque	41 mNm
Stall current	18.00 A
Nominal torque	8 mNm
Nominal speed	21200 rpm
Nominal current	3.4 A
Max. output power	33 W
Max. efficiency	76 %
Back-EMF constant	0.23 mV/rpm
Torque constant	2.25 mNm/A
KV Value	4180 rpm/V
Speed/torque gradient	753 rpm/mNm
Rotor inertia	0.98 gcm ²
Weight	6 g
Thermal resistance housing-ambient	26.8 K/W
Thermal resistance winding-housing	0.52 K/W
Thermal time constant motor	226 s
Thermal time constant winding	200 s
Operating temperature range	-40~+100 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- Hall-sensor
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01412N2B06-330-12.0

14mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1412n2b06-330-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.82 Ω
No-load speed	33000 rpm
No-load current	0.2 A
Stall torque	49 mNm
Stall current	15 A
Nominal torque	9 mNm
Nominal speed	24200 rpm
Nominal current	2.5 A
Max. output power	42 W
Max. efficiency	77 %
Back-EMF constant	0.35 mV/rpm
Torque constant	3.42 mNm/A
KV Value	2750 rpm/V
Speed/torque gradient	673 rpm/mNm
Rotor inertia	0.98 gcm ²
Weight	6 g
Thermal resistance housing-ambient	26.8 K/W
Thermal resistance winding-housing	0.52 K/W
Thermal time constant motor	226 s
Thermal time constant winding	200 s
Operating temperature range	-40~+100 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	6
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- Hall-sensor
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B03846NH2B

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3846nh2b/>



Produkte:

Seite

B03846NH2B01-85-48.0

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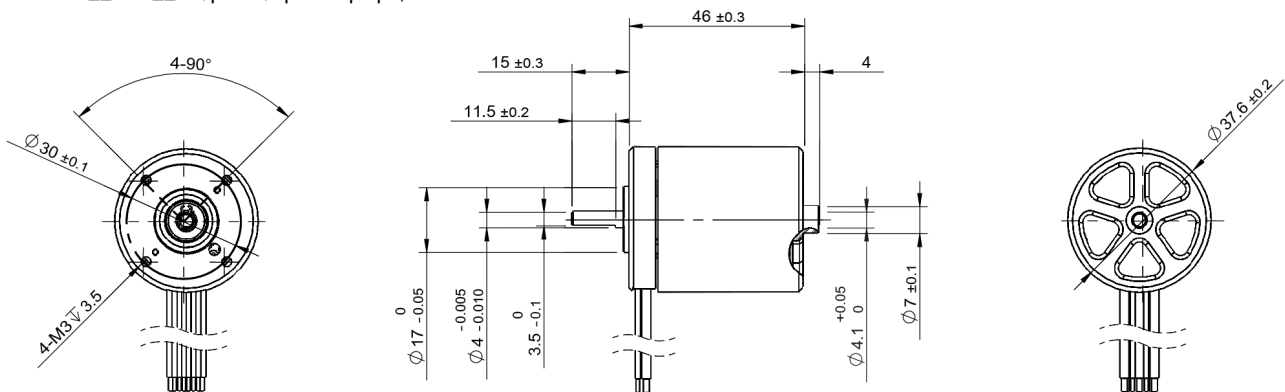
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B03846NH2B01-85-24.0

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B03846NH2B01-85-48.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3846nh2b01-85-48-0/>



Specification	
Voltage	48.0 V
Terminal resistance	0.39 Ω
No-load speed	8800 rpm
No-load current	0.5 A
Stall torque	6358 mNm
Stall current	123.1 A
Nominal torque	347 mNm
Nominal speed	7850 rpm
Nominal current	6.7 A
Max. output power	1464 W
Max. efficiency	87.6 %
Back-EMF constant	5.4 mV/rpm
Torque constant	51.9 mNm/A
KV Value	183 rpm/V
Speed/torque gradient	1.38 rpm/mNm
Rotor inertia	228 g·cm ²
Weight	198 g
Thermal resistance housing-ambient	1.1 K/W
Thermal resistance winding-housing	1.2 K/W
Thermal time constant motor	350 s
Thermal time constant winding	63 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B03846NH2B01-85-36.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3846nh2b01-85-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.23 Ω
No-load speed	8800 rpm
No-load current	0.7 A
Stall torque	6060 mNm
Stall current	156.5 A
Nominal torque	345 mNm
Nominal speed	7480 rpm
Nominal current	8.5 A
Max. output power	1395 W
Max. efficiency	87.0 %
Back-EMF constant	4.1 mV/rpm
Torque constant	38.9 mNm/A
KV Value	244 rpm/V
Speed/torque gradient	1.45 rpm/mNm
Rotor inertia	228 g·cm ²
Weight	198 g
Thermal resistance housing-ambient	1.1 K/W
Thermal resistance winding-housing	1.2 K/W
Thermal time constant motor	350 s
Thermal time constant winding	63 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B03846NH2B01-85-24.0

38mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo3846nh2b01-85-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.1 Ω
No-load speed	8800 rpm
No-load current	1.0 A
Stall torque	6198 mNm
Stall current	240.0 A
Nominal torque	346 mNm
Nominal speed	7650 rpm
Nominal current	13.1 A
Max. output power	1427 W
Max. efficiency	87.5 %
Back-EMF constant	2.7 mV/rpm
Torque constant	25.9 mNm/A
KV Value	367.0 rpm/V
Speed/torque gradient	1.42 rpm/mNm
Rotor inertia	228 g·cm ²
Weight	198 g
Thermal resistance housing-ambient	1.1 K/W
Thermal resistance winding-housing	1.2 K/W
Thermal time constant motor	350 s
Thermal time constant winding	63 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B01509NBH2B

15mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1509nbh2b/>



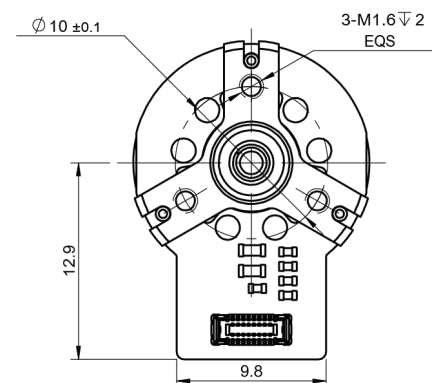
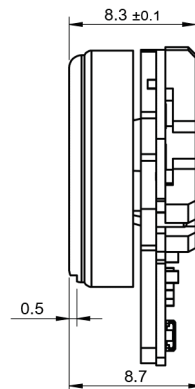
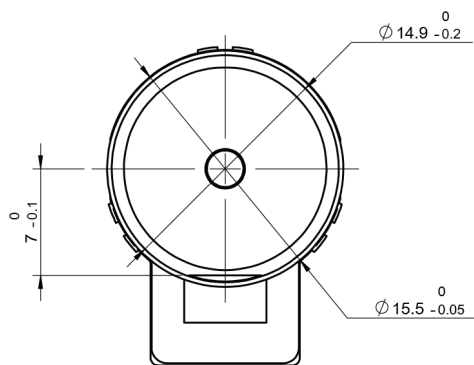
Produkte:

Seite

B01509NBH2B01-280-7.6

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B01509NBH2B01-280-7.6

15mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo1509nbh2b01-280-7-6/>



Specification	
Voltage	7.6 V
Terminal resistance	4.0 Ω
Terminal inductance	0.21 mH
No-load speed	28000 rpm
No-load current	0.10 mA
Stall torque	4.4 mNm
Stall current	2 mA
Nominal torque	1.7 mNm
Nominal speed	12200 rpm
Nominal current	0.8 mA
Max. output power	3.2 W
Max. efficiency	59 %
Back-EMF constant	0.2 mV/rpm
Torque constant	2.4 mNm/A
Speed/torque gradient	6334 rpm/mNm
Rotor inertia	0.5 gcm ²
Weight	4.4 g
Thermal resistance housing-ambient	16.1 K/W
Thermal resistance winding-housing	10.2 K/W
Thermal time constant motor	87 s
Thermal time constant winding	30 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	1.5 N
Axial load static	37 N
Radial load at 3 mm from mounting face	12 N
No. of pole pairs	4
Bearings	2 ball bearings
Protection class	30 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B04316NB2B

43mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo4316nb2b/>



Produkte:

Seite

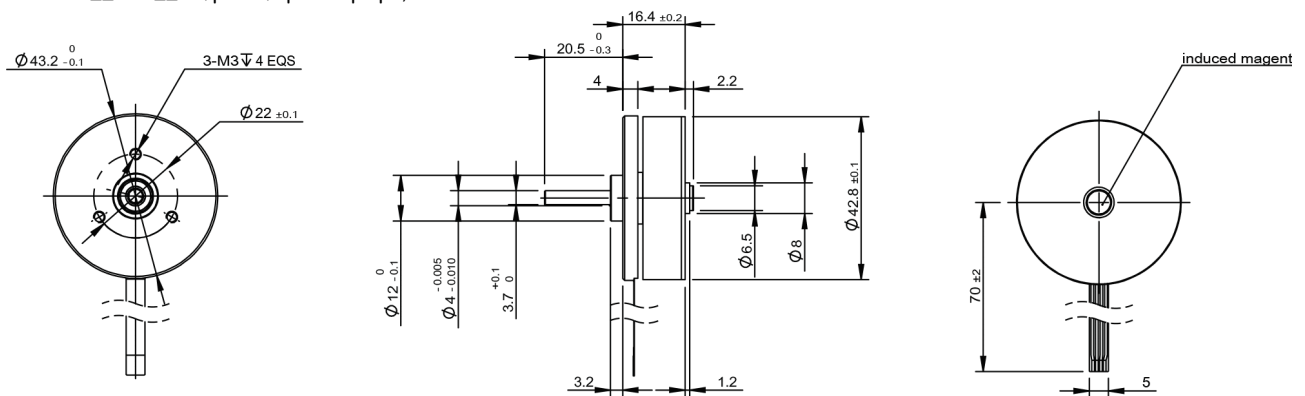
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B04316NB2B10-36-12.0

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B04316NB2B05-38-24.0

43mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo4316nb2b05-38-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	3.8 Ω
Terminal inductance	2.8 mH
No-load speed	3800 rpm
No-load current	0.08 mA
Stall torque	371 mNm
Stall current	6.3 mA
Nominal torque	79.7 mNm
Nominal speed	2640 rpm
Nominal current	1.43 mA
Max. output power	37 W
Max. efficiency	78.7 %
Back-EMF constant	6.24 mV/rpm
Torque constant	59.5 mNm/A
Speed/torque gradient	10.2 rpm/mNm
Rotor inertia	97 g·cm ²
Weight	71.5 g
Thermal resistance housing-ambient	5.8 K/W
Thermal resistance winding-housing	2.8 K/W
Thermal time constant motor	400 s
Thermal time constant winding	13 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	85 N
Radial load at 3 mm from mounting face	26 N
No. of pole pairs	8
Bearings	2 ball bearings
Protection class	30 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B04316NB2B10-36-12.0

43mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo4316nb2b10-36-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	1.4 Ω
Terminal inductance	0.74 mH
No-load speed	3600 rpm
No-load current	0.14 mA
Stall torque	264 mNm
Stall current	8.6 mA
Nominal torque	69.5 mNm
Nominal speed	2250 rpm
Nominal current	2.37 mA
Max. output power	25 W
Max. efficiency	76.0 %
Back-EMF constant	3.28 mV/rpm
Torque constant	31.3 mNm/A
Speed/torque gradient	13.6 rpm/mNm
Rotor inertia	97 g·cm ²
Weight	71.5 g
Thermal resistance housing-ambient	5.8 K/W
Thermal resistance winding-housing	2.8 K/W
Thermal time constant motor	400 s
Thermal time constant winding	13 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	85 N
Radial load at 3 mm from mounting face	26 N
No. of pole pairs	8
Bearings	2 ball bearings
Protection class	30 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV gimbals
- handheld gimbals

B04840NH2B

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4840nh2b/>



Produkte:

Seite

B04840NH2B01-105-18.0

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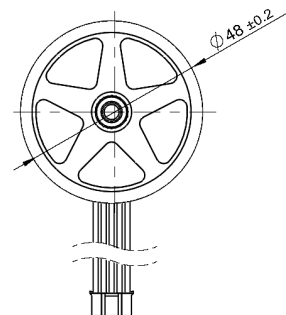
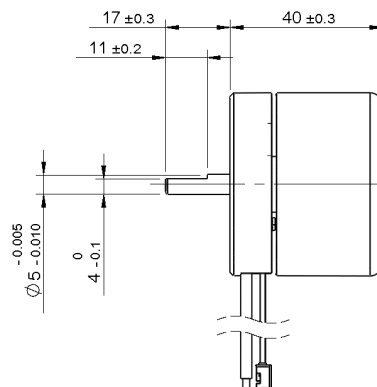
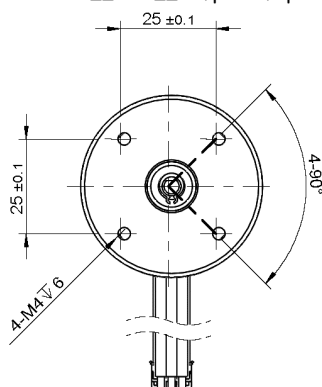
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B04840NH2B03-105-36.0

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B04840NH2B01-105-18.0

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4840nh2b01-105-18-0/>



Specification	
Voltage	18.0 V
Terminal resistance	0.034 Ω
No-load speed	10500 rpm
No-load current	1.6 A
Stall torque	8614 mNm
Stall current	529.4 A
Nominal torque	423 mNm
Nominal speed	9350 rpm
Nominal current	25.7 A
Max. output power	2367 W
Max. efficiency	89.2 %
Back-EMF constant	1.7 mV/rpm
Torque constant	16.3 mNm/A
KV Value	583 rpm/V
Speed/torque gradient	1.22 rpm/mNm
Rotor inertia	398 g·cm ²
Weight	267 g
Thermal resistance housing-ambient	0.9 K/W
Thermal resistance winding-housing	1.0 K/W
Thermal time constant motor	300 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B04840NH2B02-105-24.0

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4840nh2b02-105-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.053 Ω
No-load speed	10500 rpm
No-load current	1.2 A
Stall torque	9831 mNm
Stall current	452.8 A
Nominal torque	427 mNm
Nominal speed	9400 rpm
Nominal current	19.5 A
Max. output power	2701 W
Max. efficiency	89.9 %
Back-EMF constant	2.3 mV/rpm
Torque constant	21.8 mNm/A
KV Value	437.5 rpm/V
Speed/torque gradient	1.07 rpm/mNm
Rotor inertia	398 g·cm ²
Weight	267 g
Thermal resistance housing-ambient	0.9 K/W
Thermal resistance winding-housing	1.0 K/W
Thermal time constant motor	300 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B04840NH2B03-105-36.0

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4840nh2b03-105-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.11 Ω
No-load speed	10500 rpm
No-load current	0.9 A
Stall torque	10656 mNm
Stall current	327.3 A
Nominal torque	420 mNm
Nominal speed	9440 rpm
Nominal current	12.9 A
Max. output power	2928 W
Max. efficiency	89.7 %
Back-EMF constant	3.4 mV/rpm
Torque constant	32.7 mNm/A
KV Value	292.0 rpm/V
Speed/torque gradient	0.99 rpm/mNm
Rotor inertia	398 g·cm ²
Weight	267 g
Thermal resistance housing-ambient	0.9 K/W
Thermal resistance winding-housing	1.0 K/W
Thermal time constant motor	300 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B04326NBH2B

43mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4326nbh2b/>



Produkte:

Seite

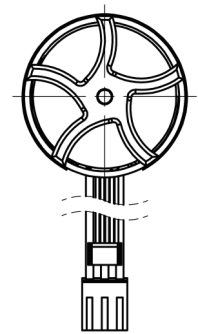
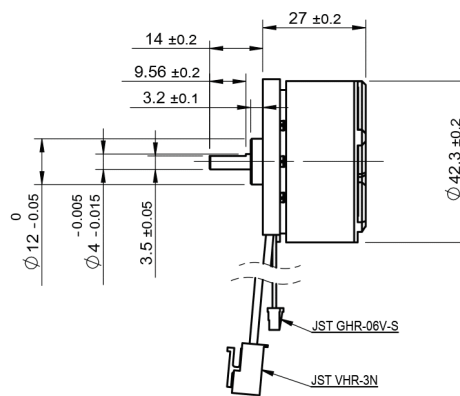
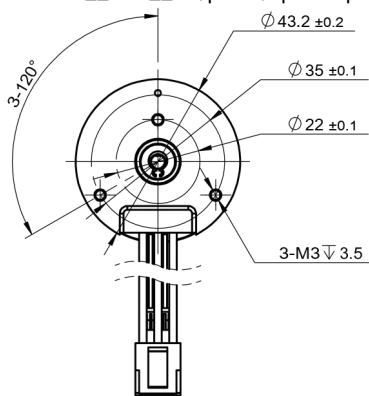
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B04326NBH2B01-92-48.0

43mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4326nbh2b01-92-48-0/>



Specification	
Voltage	48.0 V
Terminal resistance	1.0 Ω
No-load speed	9200 rpm
No-load current	0.3 A
Stall torque	2361 mNm
Stall current	48 A
Nominal torque	192 mNm
Nominal speed	7000 rpm
Nominal current	3.6 A
Max. output power	569 W
Max. efficiency	84.8 %
Back-EMF constant	5.18 mV/rpm
Torque constant	49.5 mNm/A
KV Value	192 rpm/V
Speed/torque gradient	3.9 rpm/mNm
Rotor inertia	153 g·cm ²
Weight	132 g
Thermal resistance housing-ambient	2.19 K/W
Thermal resistance winding-housing	0.73 K/W
Thermal time constant motor	360 s
Thermal time constant winding	69 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	8
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- robotics
- industrial automation

B04326NBH2B02-92-36.0

43mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4326nbh2b02-92-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.45 Ω
No-load speed	9200 rpm
No-load current	0.5 A
Stall torque	2952 mNm
Stall current	80 A
Nominal torque	190 mNm
Nominal speed	7000 rpm
Nominal current	4.8 A
Max. output power	711 W
Max. efficiency	84.8 %
Back-EMF constant	3.89 mV/rpm
Torque constant	37.1 mNm/A
KV Value	256 rpm/V
Speed/torque gradient	3.1 rpm/mNm
Rotor inertia	153 g·cm ²
Weight	132 g
Thermal resistance housing-ambient	2.19 K/W
Thermal resistance winding-housing	0.73 K/W
Thermal time constant motor	360 s
Thermal time constant winding	69 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	110 N
Radial load at 3 mm from mounting face	31 N
No. of pole pairs	8
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

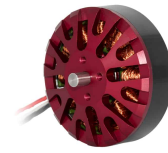
- robotics
- industrial automation

B06133N2B

61mm BLDC outer rotor, sensorless

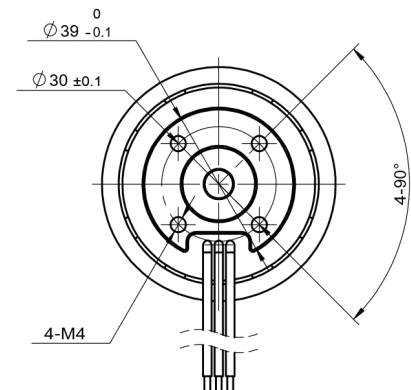
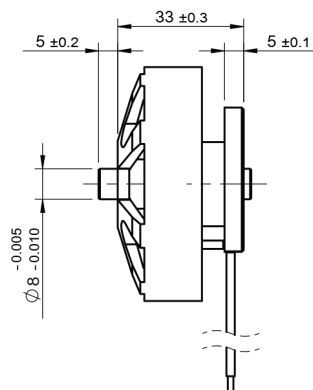
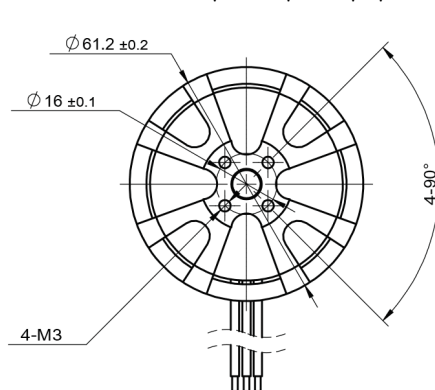


<https://www.kocomotion.de/produkt/bo6133n2b/>



Produkte:	Seite
B06133N2B01-50-48.0	169
B06133N2B02-50-36.0	171
B06133N2B03-50-24.0	173

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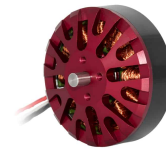


B06133N2B01-50-48.0

61mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6133n2b01-50-48-0/>



Specification	
Voltage	48.0 V
Terminal resistance	0.78 Ω
No-load speed	5000 rpm
No-load current	0.35 A
Stall torque	5577 mNm
Stall current	61.5 A
Nominal torque	558 mNm
Nominal speed	3700 rpm
Nominal current	5.5 A
Max. output power	730 W
Max. efficiency	85.4 %
Back-EMF constant	9.5 mV/rpm
Torque constant	91.2 mNm/A
KV Value	104 rpm/V
Speed/torque gradient	0.9 rpm/mNm
Rotor inertia	599 g·cm ²
Weight	230 g
Thermal resistance housing-ambient	1.47 K/W
Thermal resistance winding-housing	0.49 K/W
Thermal time constant motor	300 s
Thermal time constant winding	80 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	12 N
Axial load static	235 N
Radial load at 3 mm from mounting face	146 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

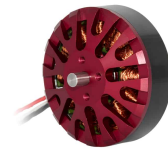
- UAV
- aeromodelling

B06133N2B02-50-36.0

61mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6133n2b02-50-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.43 Ω
No-load speed	5000 rpm
No-load current	0.5 A
Stall torque	5687 mNm
Stall current	83.7 A
Nominal torque	553 mNm
Nominal speed	3700 rpm
Nominal current	7.3 A
Max. output power	744 W
Max. efficiency	85.1 %
Back-EMF constant	7.2 mV/rpm
Torque constant	68.3 mNm/A
KV Value	139 rpm/V
Speed/torque gradient	0.9 rpm/mNm
Rotor inertia	599 g·cm ²
Weight	230 g
Thermal resistance housing-ambient	1.47 K/W
Thermal resistance winding-housing	0.49 K/W
Thermal time constant motor	300 s
Thermal time constant winding	80 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	12 N
Axial load static	235 N
Radial load at 3 mm from mounting face	146 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B06133N2B03-50-24.0

61mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6133n2b03-50-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.19 Ω
No-load speed	5000 rpm
No-load current	0.7 A
Stall torque	5725 mNm
Stall current	126.3 A
Nominal torque	558 mNm
Nominal speed	3700 rpm
Nominal current	11 A
Max. output power	749 W
Max. efficiency	85.6 %
Back-EMF constant	4.8 mV/rpm
Torque constant	45.6 mNm/A
KV Value	208 rpm/V
Speed/torque gradient	0.9 rpm/mNm
Rotor inertia	599 g·cm ²
Weight	230 g
Thermal resistance housing-ambient	1.47 K/W
Thermal resistance winding-housing	0.49 K/W
Thermal time constant motor	300 s
Thermal time constant winding	80 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	12 N
Axial load static	235 N
Radial load at 3 mm from mounting face	146 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B04416N2B

44mm BLDC outer rotor, sensorless

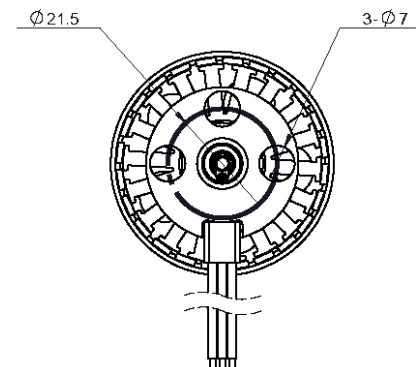
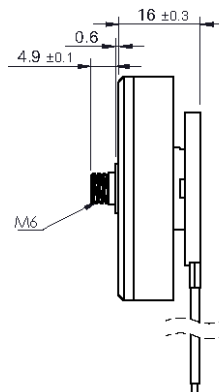
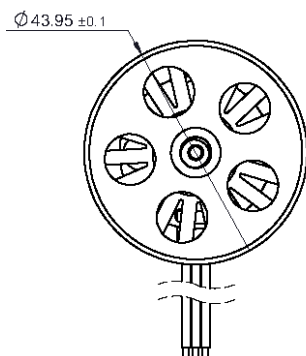


<https://www.kocomotion.de/produkt/bo4416n2b/>



Produkte:	Seite
B04416N2B02-34-12.0	176
B04416N2B03-34-18.0	178
B04416N2B04-24-24.0	180

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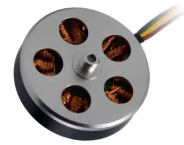


B04416N2B02-34-12.0

44mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo4416n2b02-34-12-0/>



Specification	
Voltage	12.0 V
Terminal resistance	0.37 Ω
No-load speed	3450 rpm
No-load current	0.30 A
Stall torque	1057 mNm
Stall current	32.0 A
Nominal torque	95 mNm
Nominal speed	3100 rpm
Nominal current	3.2 A
Max. output power	95 W
Max. efficiency	81 %
Back-EMF constant	3.4 mV/rpm
Torque constant	33 mNm/A
KV Value	290 rpm/V
Speed/torque gradient	3.3 rpm/mNm
Rotor inertia	70 g·cm ²
Weight	66 g
Thermal resistance housing-ambient	8.9 K/W
Thermal resistance winding-housing	2.7 K/W
Thermal time constant motor	325 s
Thermal time constant winding	252 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	12
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- smart home
- industrial automation

B04416N2B03-34-18.0

44mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo4416n2b03-34-18-0/>



Specification	
Voltage	18.0 V
Terminal resistance	0.75 Ω
No-load speed	3450 rpm
No-load current	0.17 A
Stall torque	1178 mNm
Stall current	24.0 A
Nominal torque	150 mNm
Nominal speed	2800 rpm
Nominal current	2.4 A
Max. output power	106 W
Max. efficiency	83 %
Back-EMF constant	5.2 mV/rpm
Torque constant	49.5 mNm/A
KV Value	190 rpm/V
Speed/torque gradient	2.9 rpm/mNm
Rotor inertia	70 g·cm ²
Weight	66 g
Thermal resistance housing-ambient	8.9 K/W
Thermal resistance winding-housing	2.7 K/W
Thermal time constant motor	325 s
Thermal time constant winding	252 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	12
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- smart home
- industrial automation

B04416N2B04-24-24.0

44mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo4416n2b04-24-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	3.00 Ω
No-load speed	2360 rpm
No-load current	0.09 A
Stall torque	759 mNm
Stall current	8.0 A
Nominal torque	80 mNm
Nominal speed	2060 rpm
Nominal current	0.7 A
Max. output power	46 W
Max. efficiency	79 %
Back-EMF constant	10.0 mV/rpm
Torque constant	96 mNm/A
KV Value	98 rpm/V
Speed/torque gradient	3.1 rpm/mNm
Rotor inertia	70 g·cm ²
Weight	66 g
Thermal resistance housing-ambient	8.9 K/W
Thermal resistance winding-housing	2.7 K/W
Thermal time constant motor	325 s
Thermal time constant winding	252 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.014 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	5 N
Axial load static	80 N
Radial load at 3 mm from mounting face	29 N
No. of pole pairs	12
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- bearing type
- encoder
- driver

Anwendungen

- smart home
- industrial automation

B04831NH2B

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4831nh2b/>



Produkte:

Seite

B04831NH2B01-101-18.0

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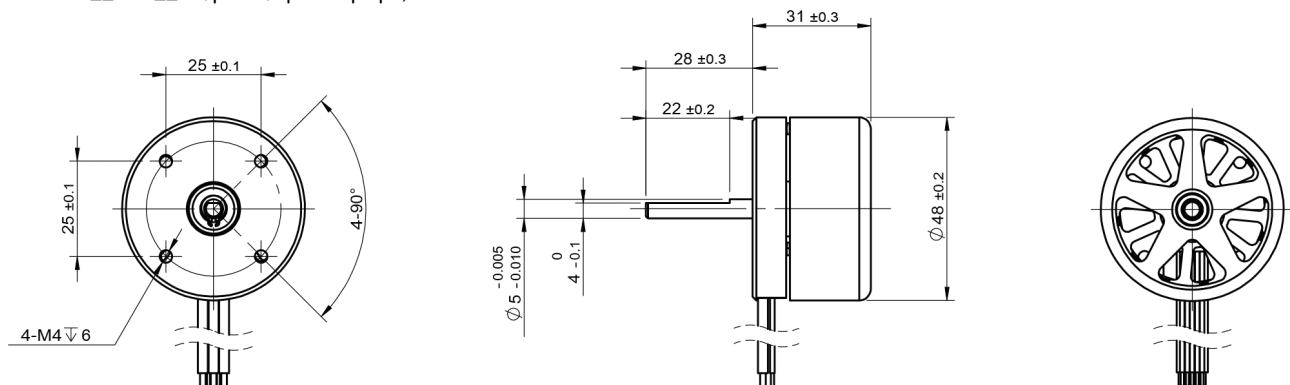
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B04831NH2B03-101-36.0

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B04831NH2B01-101-18.0

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4831nh2b01-101-18-0/>



Specification	
Voltage	18.0 V
Terminal resistance	0.05 Ω
No-load speed	10160 rpm
No-load current	1.1 A
Stall torque	6053 mNm
Stall current	360.0 A
Nominal torque	449 mNm
Nominal speed	7600 rpm
Nominal current	23.5 A
Max. output power	1609 W
Max. efficiency	89.2 %
Back-EMF constant	1.8 mV/rpm
Torque constant	16.9 mNm/A
KV Value	564 rpm/V
Speed/torque gradient	1.68 rpm/mNm
Rotor inertia	306 g·cm ²
Weight	211 g
Thermal resistance housing-ambient	1.14 K/W
Thermal resistance winding-housing	0.38 K/W
Thermal time constant motor	350 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B04831NH2B02-101-24.0

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4831nh2b02-101-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.08 Ω
No-load speed	10160 rpm
No-load current	0.9 A
Stall torque	6726 mNm
Stall current	300.0 A
Nominal torque	447 mNm
Nominal speed	7700 rpm
Nominal current	17.6 A
Max. output power	1788 W
Max. efficiency	89.3 %
Back-EMF constant	2.4 mV/rpm
Torque constant	22.5 mNm/A
KV Value	423 rpm/V
Speed/torque gradient	1.51 rpm/mNm
Rotor inertia	306 g·cm ²
Weight	211 g
Thermal resistance housing-ambient	1.14 K/W
Thermal resistance winding-housing	0.38 K/W
Thermal time constant motor	350 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B04831NH2B03-101-36.0

48mm BLDC outer rotor, Hall sensor



<https://www.kocomotion.de/produkt/bo4831nh2b03-101-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.18 Ω
No-load speed	10160 rpm
No-load current	0.6 A
Stall torque	6727 mNm
Stall current	200.0 A
Nominal torque	457 mNm
Nominal speed	7700 rpm
Nominal current	12 A
Max. output power	1788 W
Max. efficiency	89.3 %
Back-EMF constant	3.5 mV/rpm
Torque constant	33.7 mNm/A
KV Value	282 rpm/V
Speed/torque gradient	1.51 rpm/mNm
Rotor inertia	306 g·cm ²
Weight	211 g
Thermal resistance housing-ambient	1.14 K/W
Thermal resistance winding-housing	0.38 K/W
Thermal time constant motor	350 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	110 N
Radial load at 3 mm from mounting face	42 N
No. of pole pairs	7
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Hall Sensor

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B06452N3B

64mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6452n3b/>



Produkte:

Seite

B06452N3B01-95-48.0

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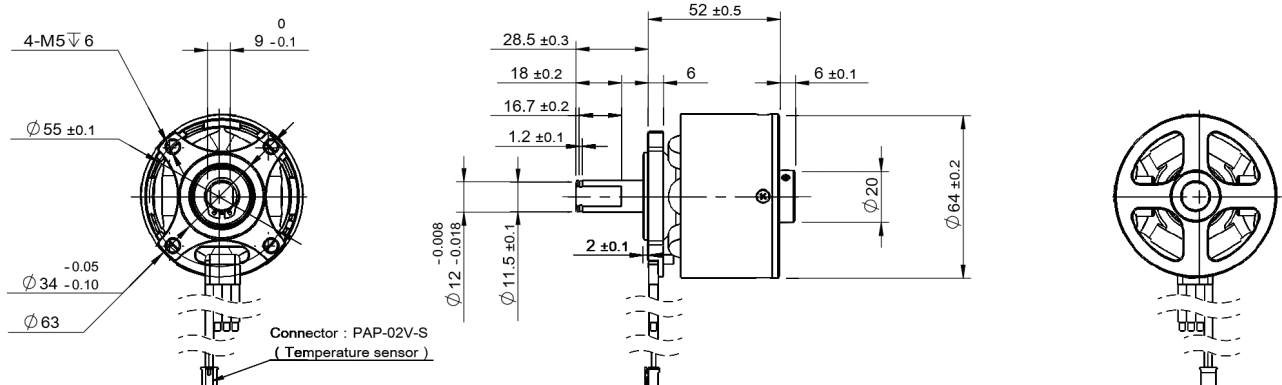
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B06452N3B03-95-24.0

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B06452N3B01-95-48.0

64mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6452n3b01-95-48-0/>



Specification	
Voltage	48.0 V
Terminal resistance	0.08 Ω
No-load speed	9500 rpm
No-load current	1.3 A
Stall torque	28824 mNm
Stall current	600 A
Nominal torque	985 mNm
Nominal speed	7400 rpm
Nominal current	18.5 A
Max. output power	7165 W
Max. efficiency	90.9 %
Back-EMF constant	5.0 mV/rpm
Torque constant	48.1 mNm/A
KV Value	198 rpm/V
Speed/torque gradient	0.33 rpm/mNm
Rotor inertia	1750 g·cm ²
Weight	625 g
Thermal resistance housing-ambient	0.58 K/W
Thermal resistance winding-housing	0.19 K/W
Thermal time constant motor	180 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	12 N
Axial load static	235 N
Radial load at 3 mm from mounting face	146 N
No. of pole pairs	4
Bearings	3 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- driver

Anwendungen

- UAV
- aeromodelling

B06452N3B02-95-36.0

64mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6452n3b02-95-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.045 Ω
No-load speed	9500 rpm
No-load current	1.8 A
Stall torque	28819 mNm
Stall current	800 A
Nominal torque	983 mNm
Nominal speed	7400 rpm
Nominal current	24.7 A
Max. output power	7163 W
Max. efficiency	90.7 %
Back-EMF constant	3.8 mV/rpm
Torque constant	36.1 mNm/A
KV Value	264 rpm/V
Speed/torque gradient	0.33 rpm/mNm
Rotor inertia	1750 g·cm ²
Weight	625 g
Thermal resistance housing-ambient	0.58 K/W
Thermal resistance winding-housing	0.19 K/W
Thermal time constant motor	180 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	12 N
Axial load static	235 N
Radial load at 3 mm from mounting face	146 N
No. of pole pairs	4
Bearings	3 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- driver

Anwendungen

- UAV
- aeromodelling

B06452N3B03-95-24.0

64mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo6452n3b03-95-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.02 Ω
No-load speed	9500 rpm
No-load current	2.6 A
Stall torque	28824 mNm
Stall current	1200 A
Nominal torque	985 mNm
Nominal speed	7400 rpm
Nominal current	37.0 A
Max. output power	7165 W
Max. efficiency	90.9 %
Back-EMF constant	2.5 mV/rpm
Torque constant	24.1 mNm/A
KV Value	396 rpm/V
Speed/torque gradient	0.33 rpm/mNm
Rotor inertia	1750 g·cm ²
Weight	625 g
Thermal resistance housing-ambient	0.58 K/W
Thermal resistance winding-housing	0.19 K/W
Thermal time constant motor	180 s
Thermal time constant winding	60 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	12 N
Axial load static	235 N
Radial load at 3 mm from mounting face	146 N
No. of pole pairs	4
Bearings	3 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- driver

Anwendungen

- UAV
- aeromodelling

B08724N2B

87mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo8724n2b/>



Produkte:

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B08724N2B01-36-48.0

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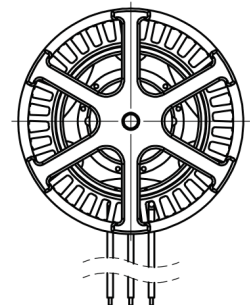
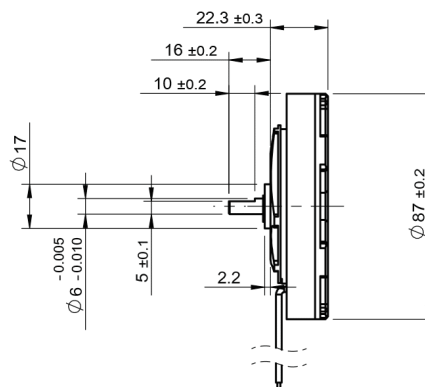
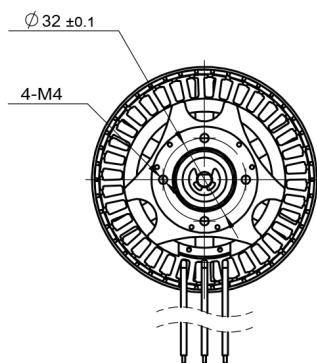
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B08724N2B01-36-48.0

87mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo8724n2b01-36-48-0/>



Specification	
Voltage	48.0 V
Terminal resistance	0.33 Ω
No-load speed	3600 rpm
No-load current	0.5 A
Stall torque	18393 mNm
Stall current	145.5 A
Nominal torque	1210 mNm
Nominal speed	3200 rpm
Nominal current	9.7 A
Max. output power	1732 W
Max. efficiency	88.6 %
Back-EMF constant	13.3 mV/rpm
Torque constant	126.9 mNm/A
KV Value	75 rpm/V
Speed/torque gradient	0.2 rpm/mNm
Rotor inertia	510 g·cm ²
Weight	270 g
Thermal resistance housing-ambient	1.1 K/W
Thermal resistance winding-housing	0.48 K/W
Thermal time constant motor	340 s
Thermal time constant winding	50 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	140 N
Radial load at 3 mm from mounting face	145 N
No. of pole pairs	21
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B08724N2B02-36-36.0

87mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo8724n2b02-36-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.17 Ω
No-load speed	3600 rpm
No-load current	0.7 A
Stall torque	20089 mNm
Stall current	211.8 A
Nominal torque	1210 mNm
Nominal speed	3200 rpm
Nominal current	13 A
Max. output power	1892 W
Max. efficiency	88.8 %
Back-EMF constant	10.0 mV/rpm
Torque constant	95.2 mNm/A
KV Value	100 rpm/V
Speed/torque gradient	0.2 rpm/mNm
Rotor inertia	510 g·cm ²
Weight	270 g
Thermal resistance housing-ambient	1.1 K/W
Thermal resistance winding-housing	0.48 K/W
Thermal time constant motor	340 s
Thermal time constant winding	50 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	140 N
Radial load at 3 mm from mounting face	145 N
No. of pole pairs	21
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

B08724N2B03-36-24.0

87mm BLDC outer rotor, sensorless



<https://www.kocomotion.de/produkt/bo8724n2b03-36-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.085 Ω
No-load speed	3600 rpm
No-load current	1.0 A
Stall torque	17848 mNm
Stall current	282.3 A
Nominal torque	1210 mNm
Nominal speed	3200 rpm
Nominal current	19.5 A
Max. output power	1681 W
Max. efficiency	88.4 %
Back-EMF constant	6.6 mV/rpm
Torque constant	64.3 mNm/A
KV Value	133.3 rpm/V
Speed/torque gradient	0.2 rpm/mNm
Rotor inertia	510 g·cm ²
Weight	270 g
Thermal resistance housing-ambient	1.1 K/W
Thermal resistance winding-housing	0.48 K/W
Thermal time constant motor	340 s
Thermal time constant winding	50 s
Operating temperature range	-40~+120 °C
Thermal class of winding	180 °C
Axial play	0.012 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	10 N
Axial load static	140 N
Radial load at 3 mm from mounting face	145 N
No. of pole pairs	21
Bearings	2 ball bearings
Protection class	20 IP
Commutation	Sensorless

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- UAV
- aeromodelling

BF3211NB2B

32mm 12V flat BLDC motor, sensorless



<https://www.kocomotion.de/produkt/bf3211nb2b/>



Produkte:

BF3211NB2B02-145-12.0

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BF3211NB2B02-145-12.0

32mm 12V flat BLDC motor, sensorless



<https://www.kocomotion.de/produkt/bf3211nb2b02-145-12-0/>



Specification	
Voltage	12 V
Terminal resistance	4.2 Ω
Terminal inductance	0.27 mH
No-load speed	14500 rpm
No-load current	0.1 A
Stall torque	21.0 mNm
Stall current	2.9 A
Nominal torque	8.1 mNm
Nominal speed	6163 rpm
Nominal current	1.224 A
Max. output power	7.99 W
Max. efficiency	66 %
Back-EMF constant	0.8 mV/rpm
Torque constant	7.6 mNm/A
Speed/torque gradient	689.6 rpm/mNm
Rotor inertia	12.4 g·cm ²
Weight	27 g
Thermal resistance housing-ambient	6 K/W
Thermal resistance winding-housing	5 K/W
Thermal time constant motor	450 s
Thermal time constant winding	224 s
Operating temperature range	-40~+120 °C
Thermal class of winding	155 °C
Axial play	0.01 mm

Specification	
Radial play	0.008 mm
Axial load dynamic	8 N
Axial load static	85 N
Radial load at 3 mm from mounting face	26 N
No. of pole pairs	4
Bearings	2 ball bearings
Commutation	Sensorless
Protection class	20 IP

Optionen

- lead wires length
- shaft length
- special coils
- gear heads
- encoder
- driver

Anwendungen

- precision visual equipment

B043**—42MP—

43mm 24V outerrotor brushless gear motor



<https://www.kocomotion.de/produkt/bo43-42mp/>



Produkte:

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B043**—42MP—B04326NBH2B03-92-24.0

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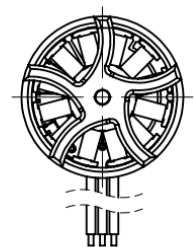
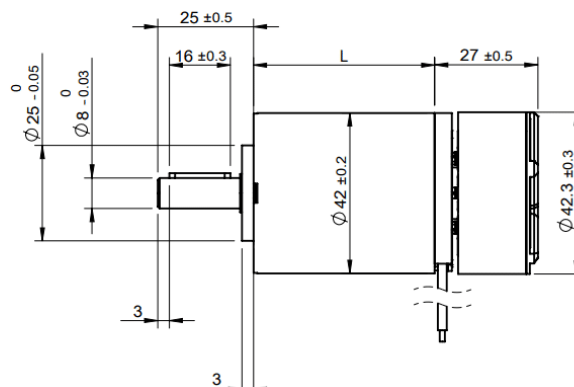
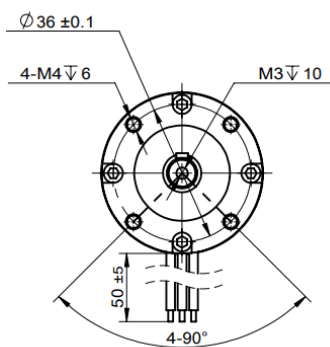
B043**—42MP—B04326NBH2B01-92-48.0

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B043**—42MP—B04326NBH2B02-92-36.0

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include __DIR__ . "/parts/spacer.php";



B043**—42MP—B04326NBH2B03-92-24.0



43mm 24V outerrotor brushless gear motor



<https://www.kocomotion.de/produkt/bo43-42mp-bo4326nbh2b03-92-24-0/>

Specification	
Voltage	24.0 V
Terminal resistance	0.21 Ω
No-load speed	9200 rpm
No-load current	0.6 mA
Stall torque	2817 mNm
Stall current	114 mA
Nominal torque	194 mNm
Nominal speed	7000 rpm
Nominal current	7.2 mA
Max. output power	678 W
Max. efficiency	86 %
Back-EMF constant	2.60 mV/rpm
Torque constant	24.8 mNm/A
Speed/torque gradient	3.3 rpm/mNm
Rotor inertia	153 g·cm ²
Weight	132 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B043**—42MP—B04326NBH2B01-92-48.0



43mm 24V outerrotor brushless gear motor



<https://www.kocomotion.de/produkt/bo43-42mp-bo4326nbh2b01-92-48-0/>

Specification	
Voltage	48.0 V
Terminal resistance	1.0 Ω
No-load speed	9200 rpm
No-load current	0.3 mA
Stall torque	2361 mNm
Stall current	48 mA
Nominal torque	192 mNm
Nominal speed	7000 rpm
Nominal current	3.6 mA
Max. output power	569 W
Max. efficiency	84.8 %
Back-EMF constant	5.18 mV/rpm
Torque constant	49.5 mNm/A
Speed/torque gradient	3.9 rpm/mNm
Rotor inertia	153 g·cm ²
Weight	132 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B043**—42MP—B04326NBH2B02-92-36.0



43mm 24V outerrotor brushless gear motor



<https://www.kocomotion.de/produkt/bo43-42mp-bo4326nbh2b02-92-36-0/>

Specification	
Voltage	36.0 V
Terminal resistance	0.45 Ω
No-load speed	9200 rpm
No-load current	0.5 mA
Stall torque	2952 mNm
Stall current	80 mA
Nominal torque	190 mNm
Nominal speed	7000 rpm
Nominal current	4.8 mA
Max. output power	711 W
Max. efficiency	84.8 %
Back-EMF constant	3.89 mV/rpm
Torque constant	37.1 mNm/A
Speed/torque gradient	3.1 rpm/mNm
Rotor inertia	153 g·cm ²
Weight	132 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B048**—52MP—

48mm 12V brushless variable speed gear motor



<https://www.kocomotion.de/produkt/bo48-52mp/>

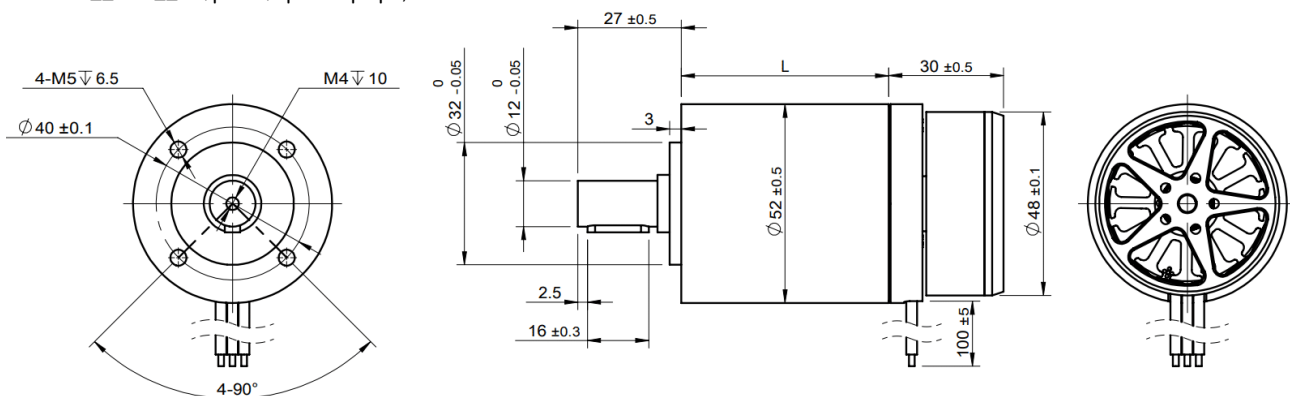


Produkte:

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B048**—52MP—B04831NH2B02-101-24.0	212
B048**—52MP—B04831NH2B03-101-36.0	213

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B048**—52MP—B04831NH2B01-101-18.0

48mm 12V brushless variable speed gear motor



<https://www.kocomotion.de/produkt/bo48-52mp-bo4831nh2b01-101-18-0/>



Specification	
Voltage	18.0 V
Terminal resistance	0.05 Ω
No-load speed	10160 rpm
No-load current	1.1 mA
Stall torque	6053 mNm
Stall current	360 mA
Nominal torque	449 mNm
Nominal speed	7600 rpm
Nominal current	23.5 mA
Max. output power	1609 W
Max. efficiency	89.2 %
Back-EMF constant	1.8 mV/rpm
Torque constant	16.9 mNm/A
Speed/torque gradient	1.68 rpm/mNm
Rotor inertia	306 g·cm ²
Weight	211 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B048**—52MP—B04831NH2B02-101-24.0

48mm 12V brushless variable speed gear motor



<https://www.kocomotion.de/produkt/bo48-52mp-bo4831nh2b02-101-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.08 Ω
No-load speed	10160 rpm
No-load current	0.9 mA
Stall torque	6726 mNm
Stall current	300 mA
Nominal torque	447 mNm
Nominal speed	7700 rpm
Nominal current	17.6 mA
Max. output power	1788 W
Max. efficiency	89.3 %
Back-EMF constant	2.4 mV/rpm
Torque constant	22.5 mNm/A
Speed/torque gradient	1.51 rpm/mNm
Rotor inertia	306 g·cm ²
Weight	211 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B048**—52MP—B04831NH2B03-101-36.0

48mm 12V brushless variable speed gear motor



<https://www.kocomotion.de/produkt/bo48-52mp-bo4831nh2b03-101-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.18 Ω
No-load speed	10160 rpm
No-load current	0.6 mA
Stall torque	6727 mNm
Stall current	200 mA
Nominal torque	457 mNm
Nominal speed	7700 rpm
Nominal current	12.0 mA
Max. output power	1788 W
Max. efficiency	89.3 %
Back-EMF constant	3.5 mV/rpm
Torque constant	33.7 mNm/A
Speed/torque gradient	1.51 rpm/mNm
Rotor inertia	306 g·cm ²
Weight	211 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B061**—62MP—

61mm 24V DC brushless gear motor



<https://www.kocomotion.de/produkt/bo61-62mp/>



Produkte:

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B061**—62MP—B06133N2B01-50-48.0

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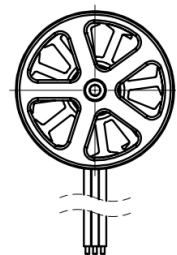
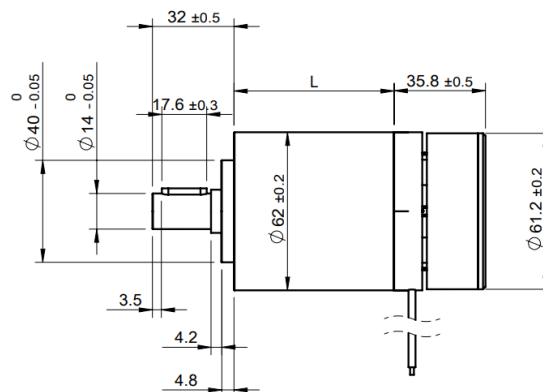
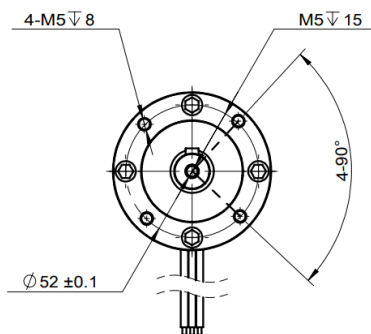
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B061**–62MP–B06133N2B01-50-48.0

61mm 24V DC brushless gear motor



<https://www.kocomotion.de/produkt/bo61-62mp-bo6133n2b01-50-48-0/>



Specification	
Voltage	48.0 V
Terminal resistance	0.78 Ω
No-load speed	5000 rpm
No-load current	0.35 mA
Stall torque	5577 mNm
Stall current	61.5 mA
Nominal torque	558 mNm
Nominal speed	3700 rpm
Nominal current	5.5 mA
Max. output power	730 W
Max. efficiency	85.4 %
Back-EMF constant	9.5 mV/rpm
Torque constant	91.2 mNm/A
Speed/torque gradient	0.9 rpm/mNm
Rotor inertia	599 g·cm ²
Weight	230 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B061**–62MP–B06133N2B02-50-36.0

61mm 24V DC brushless gear motor



<https://www.kocomotion.de/produkt/bo61-62mp-bo6133n2b02-50-36-0/>



Specification	
Voltage	36.0 V
Terminal resistance	0.43 Ω
No-load speed	5000 rpm
No-load current	0.5 mA
Stall torque	5687 mNm
Stall current	83.7 mA
Nominal torque	553 mNm
Nominal speed	3700 rpm
Nominal current	7.3 mA
Max. output power	744 W
Max. efficiency	85.1 %
Back-EMF constant	7.2 mV/rpm
Torque constant	68.3 mNm/A
Speed/torque gradient	0.9 rpm/mNm
Rotor inertia	599 g·cm ²
Weight	230 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

B061**–62MP–B06133N2B03-50-24.0

61mm 24V DC brushless gear motor



<https://www.kocomotion.de/produkt/bo61-62mp-bo6133n2b03-50-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	0.19 Ω
No-load speed	5000 rpm
No-load current	0.7 mA
Stall torque	5725 mNm
Stall current	126.3 mA
Nominal torque	558 mNm
Nominal speed	3700 rpm
Nominal current	11.0 mA
Max. output power	749 W
Max. efficiency	85.6 %
Back-EMF constant	4.8 mV/rpm
Torque constant	45.6 mNm/A
Speed/torque gradient	0.9 rpm/mNm
Rotor inertia	599 g·cm ²
Weight	230 g

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- medical equipment
- scientific instruments
- industrial equipment

7054ZWF

70mm 24V BLDC blower, Hall sensor



<https://www.kocomotion.de/produkt/7054zwf/>



Produkte:

7054ZWF-2ZP-250A-24.0

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7054ZWF-2ZP-250A-24.0

70mm 24V BLDC blower, Hall sensor



<https://www.kocomotion.de/produkt/7054zwf-2zp-250a-24-0/>



Specification	
Voltage	24.0 V
Terminal resistance	2.0 Ω
NO. of phase	3
Input power	20 W
Rated Load	Blades, blow hole: 4mm
Load speed	33000 rpm
Load current	1.4 A
Air pressure	4000 Pa
Air flow	3.6 m ³ /h
Noise	≤ 40 dB
Weight	237 g

Optionen

- lead wires length
- special coils
- driver

Anwendungen

- non-invasive ventilator
- sleep ventilator



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