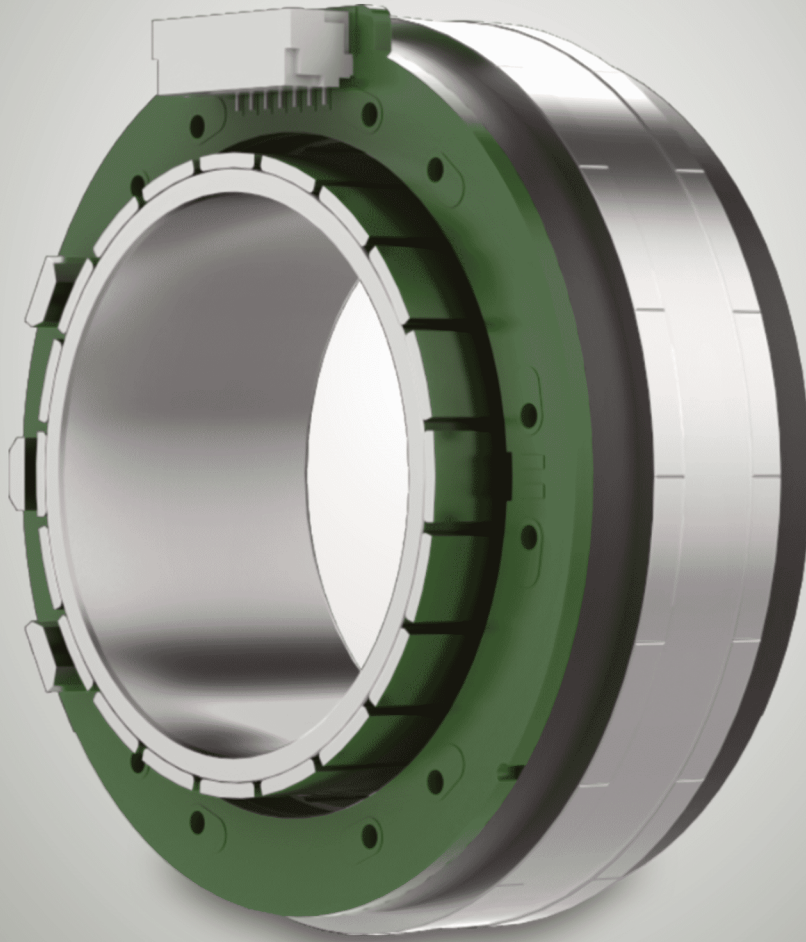


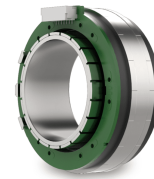


Brushless DC Motors – Frameless Motors

Brushless DC Motors - Frameless Motors

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DS50mm Series

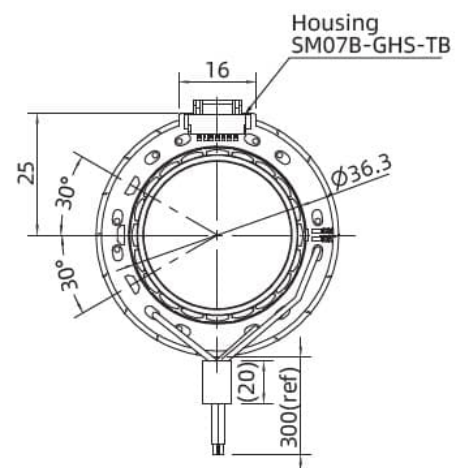
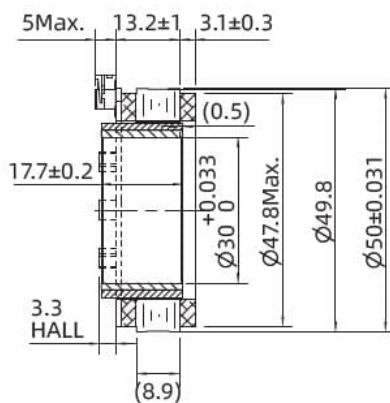

<https://www.kocomotion.de/produkt/ds50mm-series/>

Produkte:

Seite

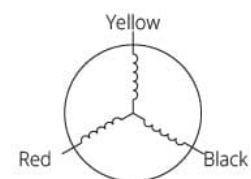
50ZWC15X-1

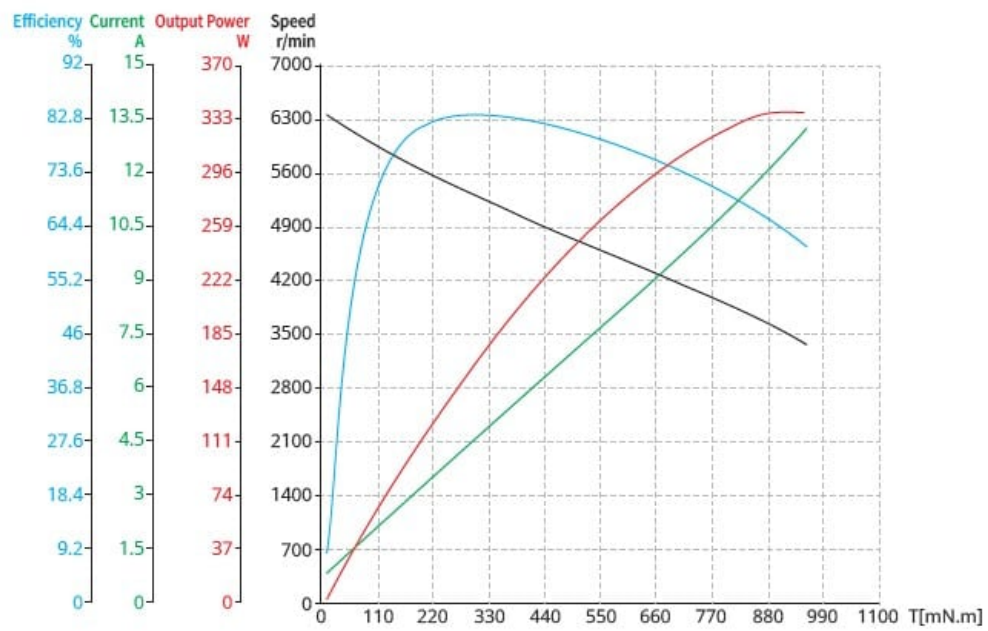
5

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



Lead-out type	Lead-out color	Function
UL1332 AWG20	Yellow	U phase
	Red	V phase
	Black	W phase





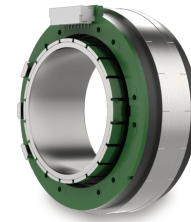
50ZWC15X-1


<https://www.kocomotion.de/produkt/50zwc15x-1/>


Specification	
Stator Outer Diameter	50±0.031 mm
Rotor Inner Bore	30+0.033 mm
Number of Slots	18
Number of Pole Pairs	10
Phase Resistance	0.62 Ω
Phase Inductance	0.43 mH
Winding Connection Type	Star shape
Insulation Class	B
Duty Cycle	S2
Feedback Method	Hall sensor
Commutation Angle	120°
Insulation Strength (Dielectric Strength)	500VAC/1mA/1s
Insulation Resistance	100 MΩ/500VDC
Stator Weight	77.5 g
Rotor Weight	38 g
No-Load Speed	6400 RPM
No-Load Current	0.4(REF) A
Rated Voltage	48 VDC
Rated Power	163 W
Rated Torque	0.3 N·m
Rated Speed	5200 RPM
Rated Current	3.6 A
Torque Constant	0.09 Nm/A
Back EMF Constant (RMS)	5.5 Vrms/Krpm

Specification	
Peak Torque	0.96 N·m
Peak Current	10.7 A
Moment of Inertia	100 g·cm ²

DS70mm Series

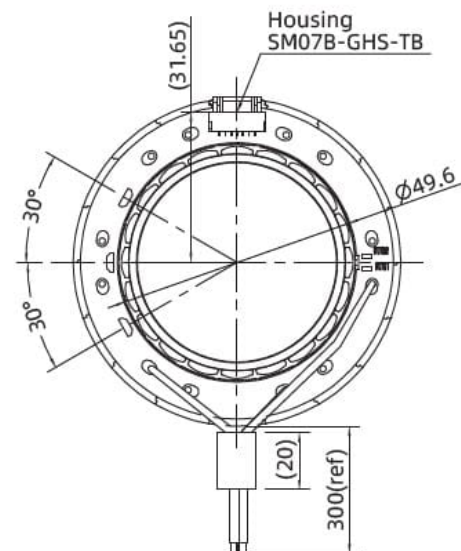
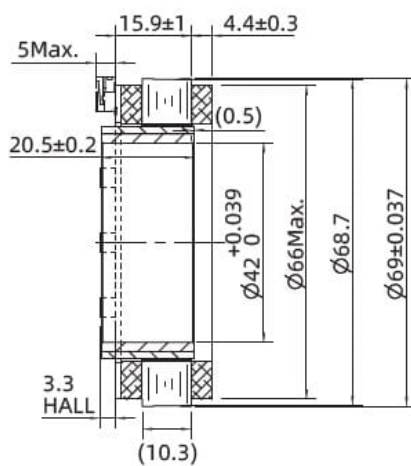

<https://www.kocomotion.de/produkt/ds70mm-series/>

Produkte:

Seite

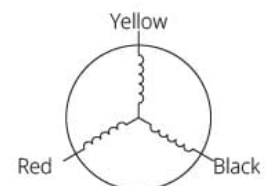
70ZWC20X-1

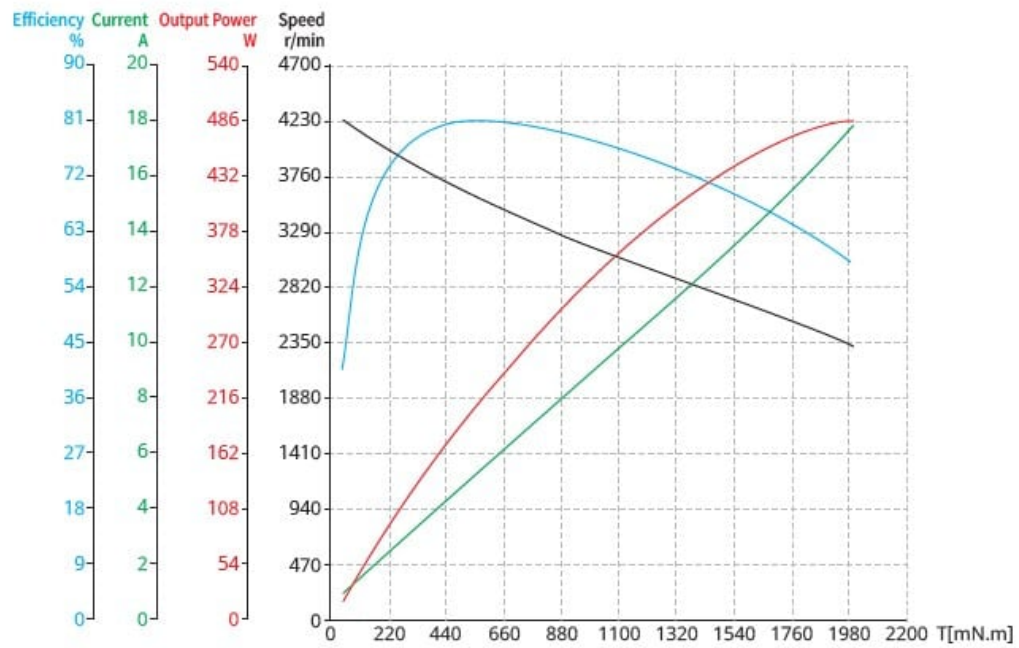
9

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



Lead-out type	Lead-out color	Function
UL1332 AWG20	Yellow	U phase
	Red	V phase
	Black	W phase





70ZWC20X-1


<https://www.kocomotion.de/produkt/70zwc20x-1/>

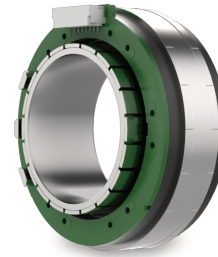

Specification	
Stator Outer Diameter	69±0.037 mm
Rotor Inner Bore	42±0.039 mm
Number of Slots	18
Number of Pole Pairs	10
Phase Resistance	0.36 Ω
Phase Inductance	0.51 mH
Winding Connection Type	Star shape
Insulation Class	B
Duty Cycle	S2
Feedback Method	Hall sensor
Commutation Angle	120°
Insulation Strength (Dielectric Strength)	500VAC/1mA/1s
Insulation Resistance	100 MΩ/500VDC
Stator Weight	167.5 g
Rotor Weight	72 g
No-Load Speed	4350 RPM
No-Load Current	0.5(REF) A
Rated Voltage	48 VDC
Rated Power	201 W
Rated Torque	0.55 N·m
Rated Speed	3500 RPM
Rated Current	4.4 A
Torque Constant	0.134 Nm/A
Back EMF Constant (RMS)	8.1 Vrms/Krpm

Specification	
Peak Torque	1.65 N·m
Peak Current	13.2 A
Moment of Inertia	358 g·cm ²

DS85mm Series



<https://www.kocomotion.de/produkt/ds85mm-series/>



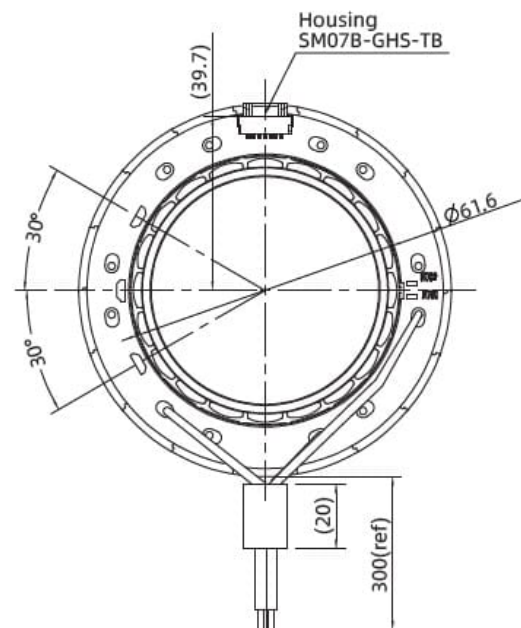
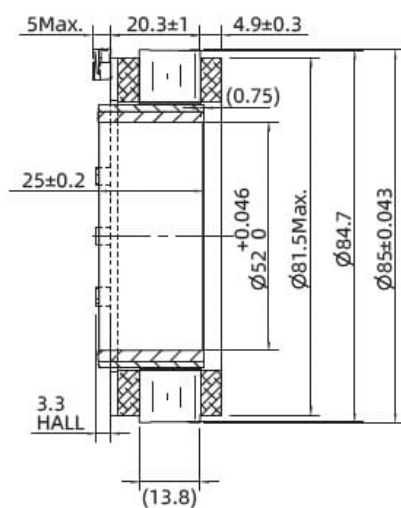
Produkte:

Seite

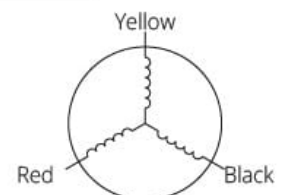
85ZWC25X-1

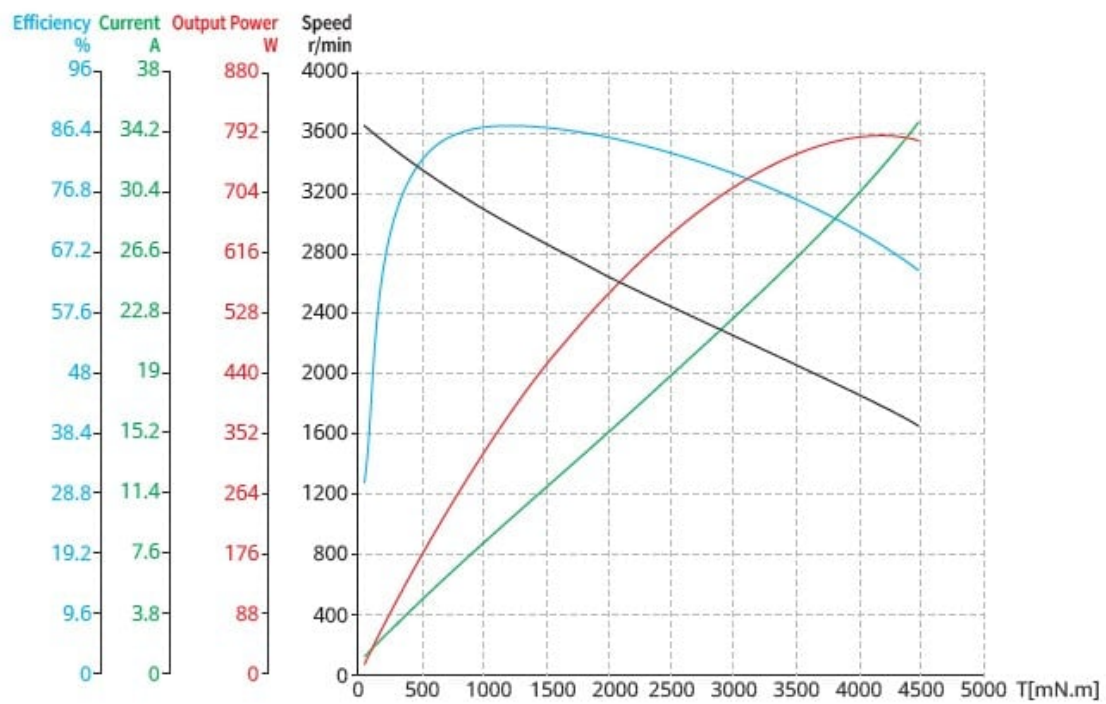
13

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



Lead-out type	Lead-out color	Function
UL1332 AWG16	Yellow	U phase
	Red	V phase
	Black	W phase





85ZWC25X-1



<https://www.kocomotion.de/produkt/85zwc25x-1/>



Specification	
Stator Outer Diameter	85±0.043 mm
Rotor Inner Bore	52+0.046 mm
Number of Slots	18
Number of Pole Pairs	10
Phase Resistance	0.165 Ω
Phase Inductance	0.33 mH
Winding Connection Type	Star shape
Insulation Class	B
Duty Cycle	S2
Feedback Method	Hall sensor
Commutation Angle	120°
Insulation Strength (Dielectric Strength)	500VAC/1mA/1s
Insulation Resistance	100 MΩ/500VDC
Stator Weight	324 g
Rotor Weight	136 g
No-Load Speed	3650 RPM
No-Load Current	0.6(REF) A
Rated Voltage	48 VDC
Rated Power	408 W
Rated Torque	1.3 N·m
Rated Speed	3000 RPM
Rated Current	8.6 A
Torque Constant	0.16 Nm/A
Back EMF Constant (RMS)	9.7 Vrms/Krpm

Specification	
Peak Torque	3.9 N·m
Peak Current	25.7 A
Moment of Inertia	1086 g·cm ²



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