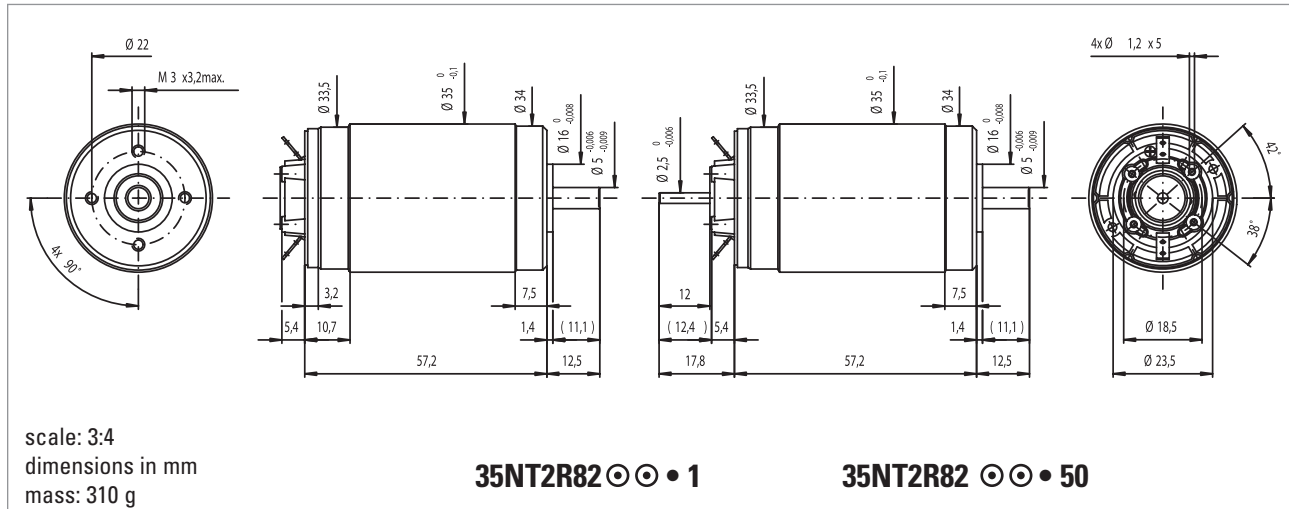


102 Watt

Graphite/Copper Commutation System - 13 Segments



Winding Type	⊙ ⊙	426P	426SP	426E	226E
<b>Measured Values</b>					
Measuring voltage	V	18	32	60	28
No-load speed	rpm	6700	5900	5700	6900
Stall torque	mNm (oz-in)	838 (117)	756 (107)	782 (111)	676 (96)
Average No-load current	mA	141	80	40	80
Typical starting voltage	V	--	--	--	--
<b>Max. Recommended Values</b>					
Max. continuous current	A	4.4	2.3	1.19	2.6
Max. continuous torque	mNm (oz-in)	108 (15.3)	115 (16.3)	114 (16.1)	97 (13.7)
Max. angular acceleration	10 <sup>3</sup> rad/s <sup>2</sup>	122	125	128	144
<b>Intrinsic Parameters</b>					
Back-EMF constant	V/1000 rpm	2.65	5.40	10.4	4.02
Torque constant	mNm/A (oz-in/A)	25.4 (3.6)	52 (7.3)	99 (14.1)	38.4 (5.4)
Terminal resistance	ohm	0.86	2.20	7.7	1.6
Motor regulation R/k <sup>2</sup>	10 <sup>3</sup> /Nms	1.3	0.83	0.77	1.1
Rotor inductance	mH	0.1	0.40	1.7	0.22
Rotor inertia	kgm <sup>2</sup> 10 <sup>-7</sup>	71.4	71.4	71.4	54
Mechanical time constant	ms	6.1	6	5.5	5.8

Executions				
		Single Shaft	For E9	HED5
Gearbox	Page	35NT2R82	35NT2R82	35NT2R82
R32	243	54	66	35
R40	248	54	66	35

- Thermal Resistance: rotor-body 4 °C/W, body-ambient 8 °C/W
- Thermal time constant - rotor / stator: 40s / 920 s
- Max. rated coil temperature: 155°C
- Recom. ambient temperature range: -55°C to +125°C (-31°F to +257°F)
- Max. axial static force for press-fit: 100 N
- shaft supported: 1000N
- End play: negligible
- Radial play: negligible
- Shaft runout: ≤ 10 µm
- Max. side load at 5 mm from mounting face - ball bearings 35 N
- Motor fitted with ball bearings
- For filter add 'F' to designation before coil
- On request available with HP encoder and brake

