

scale: 3:4  
dimensions in mm  
mass: 310 g

35NT2R82  $\odot\odot \cdot 1$

35NT2R82  $\odot\odot \cdot 50$

**Winding Type**

$\odot\odot$

426P

426SP

**Measured Values**

Measuring voltage	V	18	32
No-load speed	rpm	6700	5900
Stall torque	mNm (oz-in)	538 (76)	756 (107)
Average No-load current	mA	141	80
Typical starting voltage	V	--	--

**Max. Recommended Values**

Max. continuous current	A	3.7	2.3
Max. continuous torque	mNm (oz-in)	90 (12.7)	115 (16.3)
Max. angular acceleration	$10^3 \text{ rad/s}^2$	90 (12.7)	12.5

**Intrinsic Parameters**

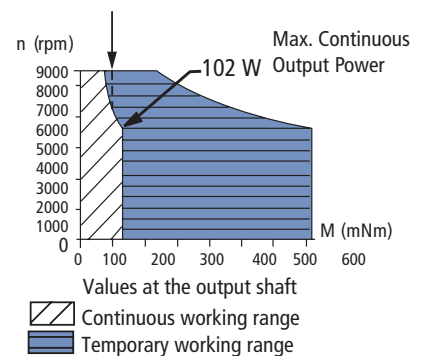
Back-EMF constant	V/1000 rpm	2.65	5.40
Torque constant	mNm/A (oz-in/A)	25.4 (3.6)	52 (7.3)
Terminal resistance	ohm	0.85	2.20
Motor regulation R/k <sup>2</sup>	$10^3/\text{Nms}$	1.3	0.83
Rotor inductance	mH	0.1	0.40
Rotor inertia	$\text{kgm}^2 \cdot 10^{-7}$	71.4	71.4
Mechanical time constant	ms	9	6

**Executions**

		Single Shaft	For E9	HEDS
<b>Gearbox</b>	<b>Page</b>	<b>35NT2R82</b>		
R32	109	1	50	35
R40	114	1	50	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:  $\leq 10 \mu\text{m}$
- 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

**Max. Recommended Speed**



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