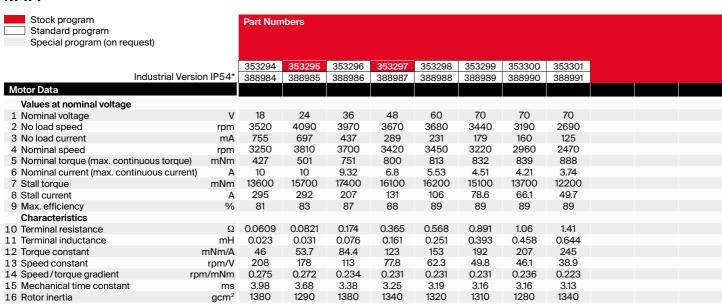


M 1:4

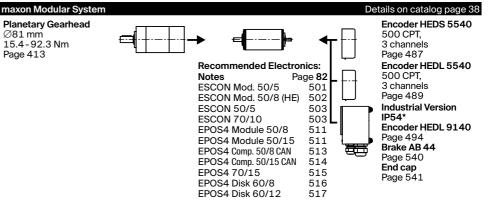


Specification Thermal data 1.3 K/W 17 Thermal resistance housing-ambient 18 Thermal resistance winding-housing 1.85 K/W 19 Thermal time constant winding 20 Thermal time constant motor 123 s 1060 s -30...+100°C 21 Ambient temperature 22 Max. winding temperature +125°C Mechanical data preloaded ball bearings) 5500 rpm 23 Max. speed 24 Axial play at axial load 0 mm > 25 N 0.1 mm 25 Radial play preloaded 26 Max. axial load (dynamic) 70 N Max. force for press fits (static) (static, shaft supported) 420 N 12000 N 28 Max. radial load, 15 mm from flange 350 N Other specifications 29 Number of pole pairs 30 Number of commutator segments 26 2100 g 31 Weight of motor Values listed in the table are nominal.

Explanation of the figures on page 82

Industrial version with radial shaft seal ring (resulting in increased no load current). IP54 protection only if mounted on brush side, in compliance with maxon modular system.

Operating Range Comments n [rpm] Continuous operation In observation of above listed thermal resistance 250 W (lines 17 and 18) the maximum permissible winding 6000 temperature will be reached during continuous operation at 25°C ambient. 4500 = Thermal limit. 3000 Short term operation The motor may be briefly overloaded (recurring). 1500 Assigned power rating 300 450 600 750 M [mNm] 150 3.0 6.0 1.5 4.5



maxon DC motor 153 March 2021 edition / subject to change

Ø81 mm

Page 413

15.4-92.3 Nm