XR15-W Wheel Drive

Ultra-Low Profile, Direct-Drive, Brushless Wheel Motor

XR15-W Comprising ...

- External/Outer Rotor DC Brushless Motor Design
- Integrated High Resolution Encoder
- High-Capacity Bearing
- Simple Integration via Direct-Mount to Vehicle Platform
- Easy-Fit for Customer Tyre













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Provisional Datasheet. Contents subject to change without notice. Please contact PMW Dynamics to confirm specific performance and/or physical properties that are critical for your application

Performance Data

Performance Data		
Motor Rated Torque Motor Rated Speed Motor Rated Power Motor Peak Torque Speed at Peak Torque	8.0 580 486 13.0 460	Nm RPM W Nm RPM
Electrical Data		
Motor Rated Voltage Motor Rated Current Motor Torque Constant Kt (±10%) Motor Velocity Constant Ke (±10%) Motor Pole Pairs Encoder Resolution Integrated Thermal Sensor	42.0 12.0 0.56 0.56 8 4,096 Differential Output 10KΩ NTC	VDC A _{RMS} Nm/A _{RMS} Vs/rad PPR
Mechanical Data		
Overall Mass Max. Axial Load (@120mm PCD) Max. Radial Load Max. Moment Load	2.65 1,000 650 TBA	kg N N Nm
Environmental Data		
Operating Temperature IP Rating	-10°C to +40°C IP54	

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