EM- Family

EM-PMI540-T1500 Family

Application Covered and Expected Performance Output:

Heavy-duty truck and bus applications

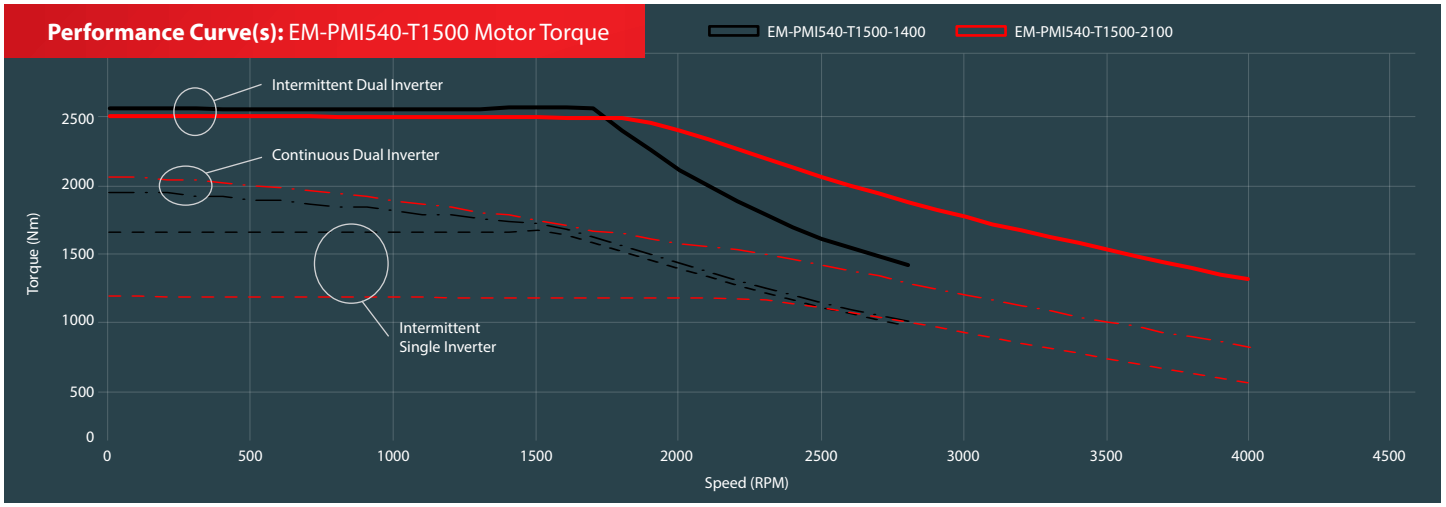
- Torque & speed variants to cover wide-range of application needs
- 96% highest system efficiency with EC-C1200-450 inverter
- Demonstrated high-reliability in harsh off-highway conditions

System Performance Summary:

Motor Family	EM-PMI540-T1500 Family						
Inverter	EC-C1200-450						
Continous Power (kW)	133	216	253	278	303	339	380
Nominal Speed (RPM)	700	1200	1400	1600	1800	2100	2400
Max Operating speed (RPM)	1400	2400	2800	3200	3600	4000	4000
Continous Torque (Nm)	1810	1716	1723	1662	1606	1542	1510
Max Torque (Nm)*	2600*	2110* 2600**	1695* 2600**	1500* 2600**	1359* 2600**	1118* 2500**	1012* 2135**
Peak efficiency	96 %						
Voltage range required (VDC)	450 - 850						
System Weight (kg)	405 - 420						
Motor (kg)	390						
Inverter (kg)	15						

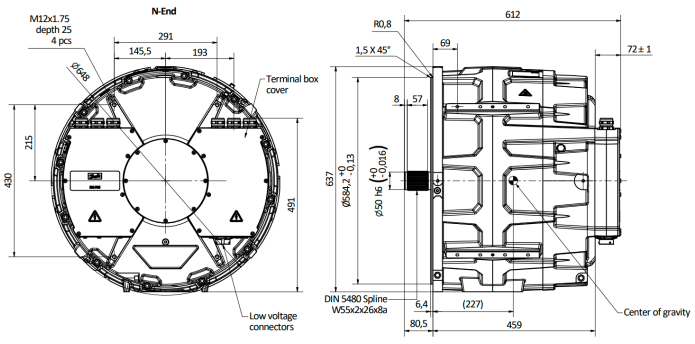
(* designates # of inverters)

Performance Curve(s): EM-PMI540-T1500 Motor Torque



System Weight and Dimensions:

Motor Dimensions



Standards and Features:

Protection Class -- IP65 / IP67 (as option)
Mechanical vibration (ISO16750-3) -- 5.9Grms
Mechanical shock (ISO16750-3) -- 50G
Multiple mounting positions
Coolant temperature from -20°C -- +70°C
Inverter supports 2x isolated CAN ports
CANopen and SAE J-1939 protocols

Production Readiness: Available now

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