EM- Family

EM-PMI540-T2000 Family

Application Covered and Expected Performance Output:

Heavy-duty truck and bus applications

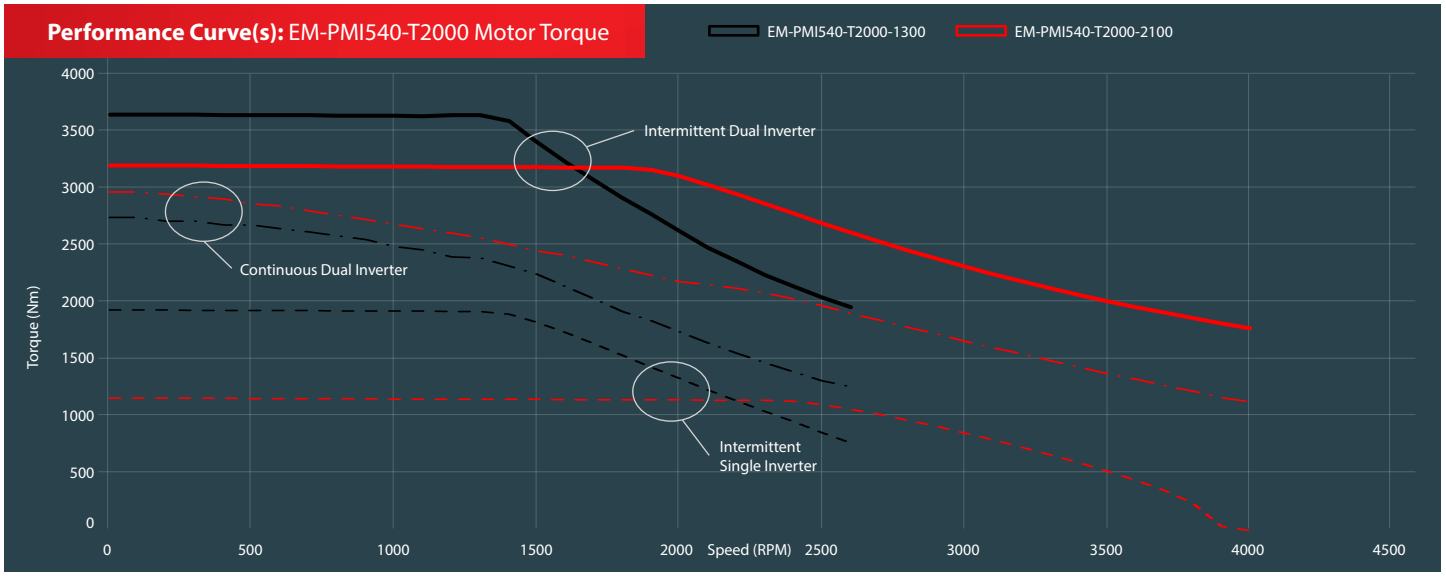
- Torque & speed variants to cover wide-range of application needs
- 96% highest system efficiency with EC-C1200-450 inverter
- Demonstrated high-reliability in harsh off-highway conditions

System Performance Summary:

Motor Family	EM-PMI540-T2000 Family				
Inverter	EC-C1200-450				
Continous Power (kW)	199	269	325	405	473
Nominal Speed (RPM)	700	1000	1300	1700	2100
Max Operating speed (RPM)	1400	2000	2600	3400	4000
Continous Torque (Nm)	2716	2570	2386	2276	2153
Max Torque (Nm)*	3400* 3700**	2500* 3650**	1930* 3650**	1400* 2750**	1150* 2300**
Peak efficiency	96 %				
Voltage range required (VDC)	450 - 850				
System Weight (kg)	505 - 520				
Motor (kg)	490				
Inverter (kg)	15				

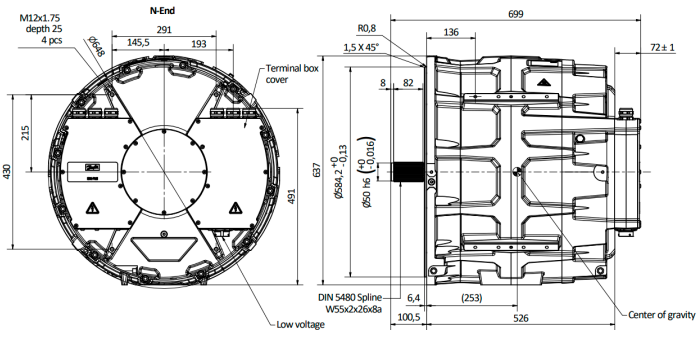
(* designates # of inverters)

Performance Curve(s): EM-PMI540-T2000 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

Please reach out to us:

North America:
Dustin Chapman, Mohammed Belbaraka

dustin.chapman@danfoss.com

mohammed.belbaraka@danfoss.com

Europe:
Fredrik Wigh

fredrik.wigh@danfoss.com