EM- Family

EM-PMI375-T500 Family

Application Covered And Expected Performance Output:

Medium duty truck and bus applications

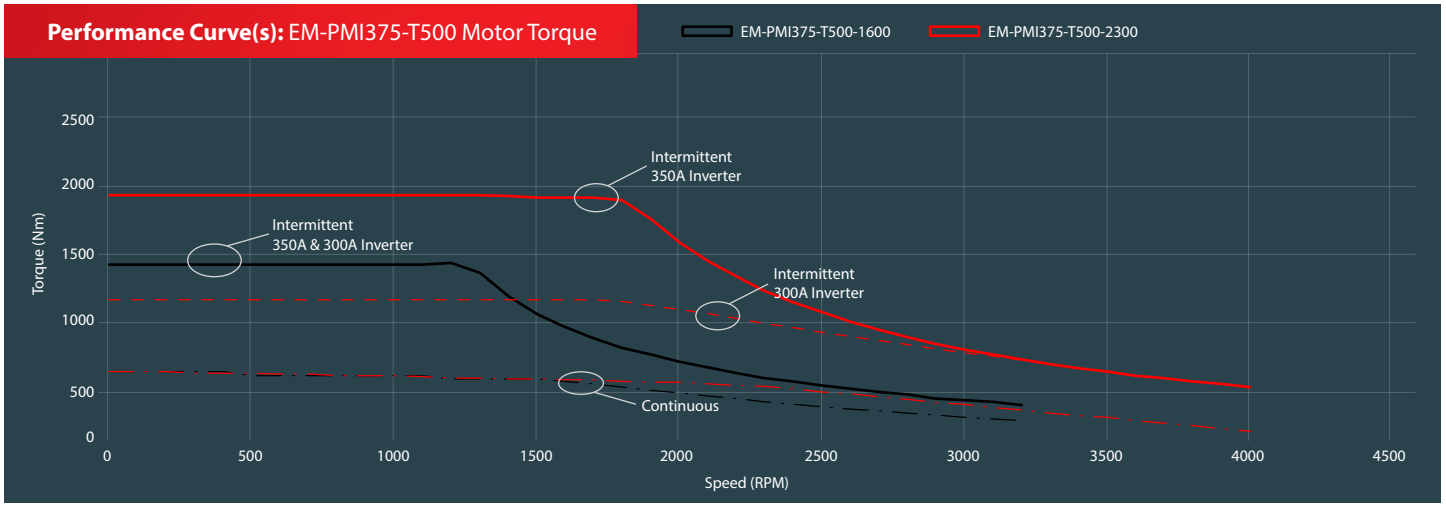
- Torque & speed variants to cover wide-range of application needs
- 96% highest system efficiency with EC-C1200-450 inverter
- Demonstrated high-reliability in harsh off-highway conditions

System Performance Summary:

Motor Family	EM-PMI375-T500 Family							
Inverter	EC-C1200-450 (3-phase)							
Continous Power (kW)	66	78	96	106	115	125	150	162
Nominal Speed (RPM)	1100	1300	1600	1800	2000	2300	2700	3200
Max Operating speed (RPM)	2200	2600	3200	3600	4000	4000	4000	4000
Continous Torque (Nm)	573	575	575	560	550	543	530	484
Max Torque (Nm)*	1490*	1480*	1450*	1400*	1200*	1170* 1450**	895* 1194**	736* 1038**
Peak efficiency	96 %							
Voltage range required (VDC)	450 - 850							
System Weight (kg)	187 - 202							
Motor (kg)	172							
Inverter (kg)	15							

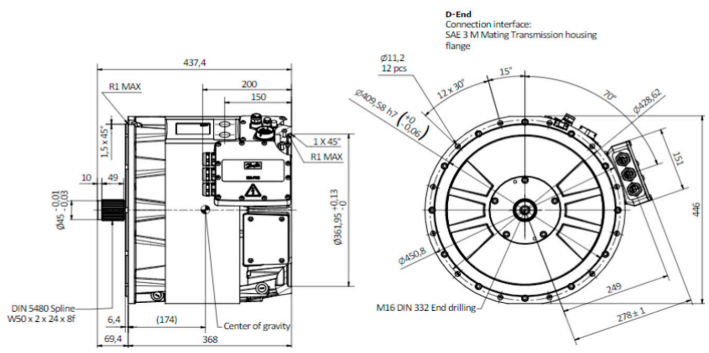
(* designates # of inverters)

Performance Curve(s): EM-PMI375-T500 Motor Torque



System 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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