EM- Family

EM-PMI375-T800 Family

Application Covered and Expected Performance Output:

Medium/ heavy-duty truck and bus applications

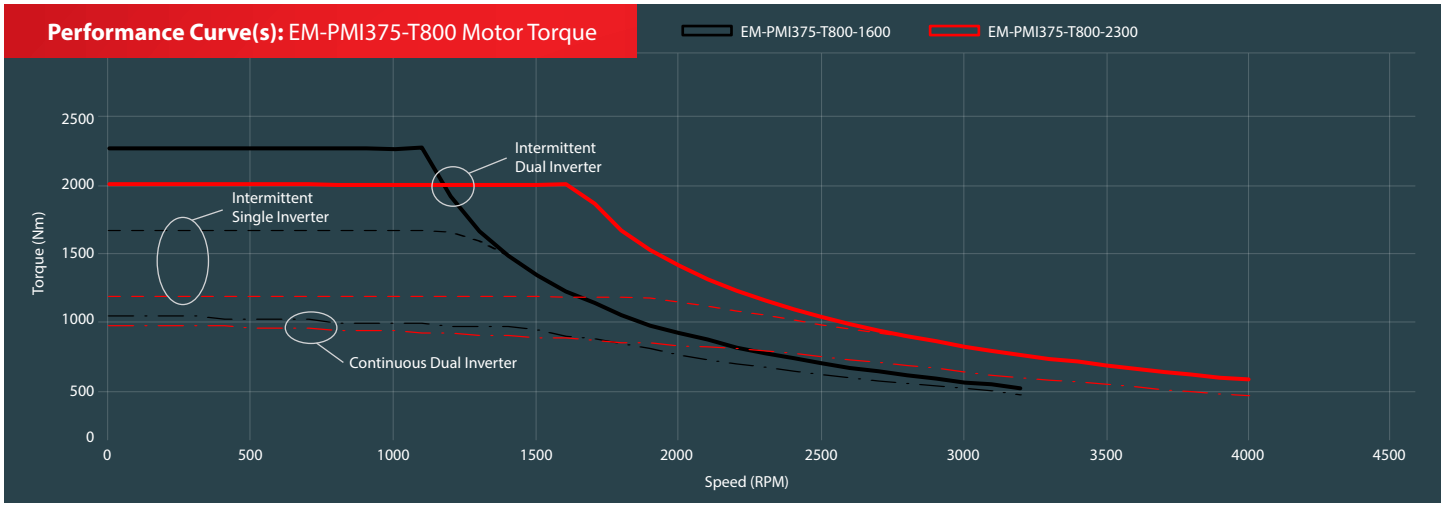
- Torque & speed variants to cover wide-range of application needs
- 96% highest system efficiency with EC-C1200-450 inverter
- Demonstrated high-reliability in harsh off-highway conditions

System Performance Summary:

Motor Family	EM-PMI375-800 Family							
Inverter	EC-C1200-450							
Continous Power (kW)	86	122	151	170	192	215	150	162
Nominal Speed (RPM)	900	1300	1600	1900	2300	2800	2700	3200
Max Operating speed (RPM)	1800	2600	3200	3800	4000	4000	4000	4000
Continous Torque (Nm)	910	895	902	854	797	733	530	484
Max Torque (Nm)*	2280*	1900* 2100**	1550* 2100**	1300* 2100**	1050* 2040**	850* 1700** 1800***	895* 1194**	736* 1038**
Peak efficiency	96 %							
Voltage range required (VDC)	450 - 850							
System Weight (kg)	225 - 255							
Motor (kg)	210							
Inverter (kg)	15							

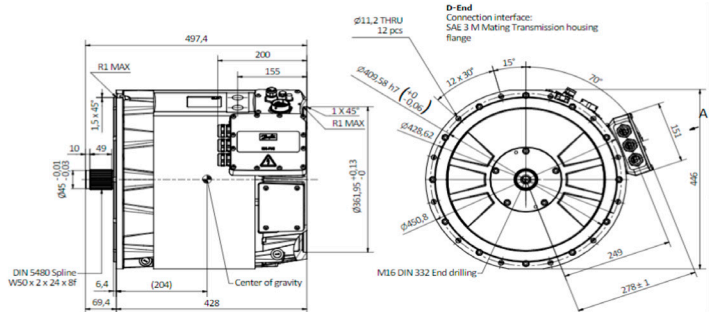
(* designates # of inverters)

Performance Curve(s): EM-PMI375-T800 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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