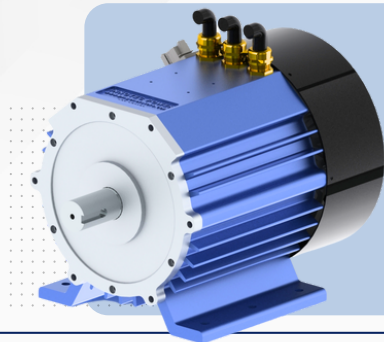
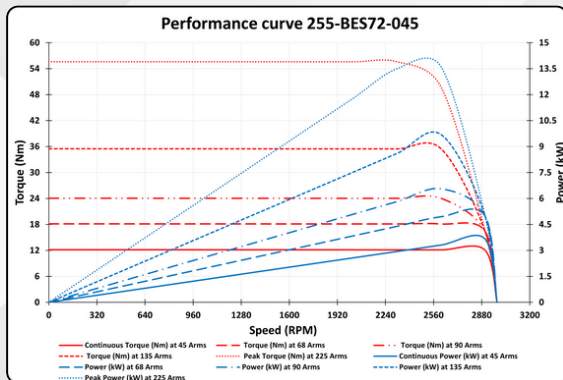


255-BES72-045

TECHNICAL DATASHEET



Applications...



Construction & Mining Equipments



Electric & Hybrid vehicles/equipment



Farm & Agricultural Equipments



Industrial Automation

Model No.	255-BES72-045
Rated power (kW)	3.6
Peak power (kW)	13.5
Rated speed (RPM)	2900
Rated voltage (V)	72 VDC
Rated current (Amps)	45 Arms
Peak current (Amps)	225 Arms
Rated torque (Nm)	12
Peak torque (Nm)	55.6
Rated frequency (Hz)	241.6
Torque constant (Nm/Arms)	0.266
Voltage constant (Vrms/rad/s)	0.237
Rotor inertia (Kg/m ² sq)	0.008789
Number of phases	Three Phase
Power factor	≈ 1
Efficiency	Designed for 93%
Winding method	Star/Y
Insulation class	H
Insulation resistance	>500 Mohm at 500 Vdc
Motor type	PM Synchronous
Protection class	>IP64
Winding material	100% Copper
Shaft material	Hardened EN 24
Magnet	NdFeB
Temperature sensor	PT 1000
Max winding sensor temperature	150° C
Core.	Cold Rolled Silicon Steel
Bearings	6207-2Z/C10, 6207-2Z/C10
Cooling	Natural Air Cooled, Forced Air Cool
Weight (Kg)	28 Kg
Mounting	Flange, Foot