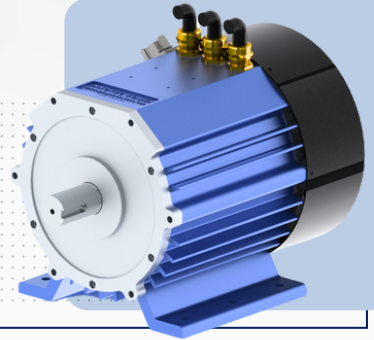
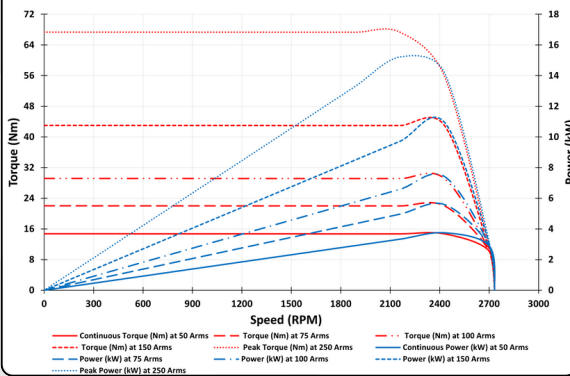


Performance curve 255-CZS72-050



## Applications...



Construction & Mining  
Equipments



Electric & Hybrid  
vehicles/equipment



Farm & Agricultural  
Equipments



Industrial Automation

| Model No.                                         | 255-CZS72-050                       |
|---------------------------------------------------|-------------------------------------|
| Rated power (kW)                                  | 3.7                                 |
| Peak power (kW)                                   | 15.2                                |
| Rated speed (RPM)                                 | 2400                                |
| Rated voltage (V)                                 | 72 VDC                              |
| Rated current (Amps)                              | 50 Arms                             |
| Peak current (Amps)                               | 250 Arms                            |
| Rated torque (Nm)                                 | 14.7                                |
| Peak torque (Nm)                                  | 67.3                                |
| Rated frequency (Hz)                              | 200                                 |
| Torque constant (Nm/Arms)                         | 0.294                               |
| Voltage constant (Vrms/rad/s)                     | 0.286                               |
| Rotor inertia (Kg/m <sup>2</sup> s <sup>2</sup> ) | 0.004057                            |
| 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/C3, 6207-2Z/C3              |
| Cooling                                           | Natural Air Cooled, Forced Air Cool |
| Weight (Kg)                                       | 17 Kg                               |
| Mounting                                          | Flange, Foot                        |