

AmeriMex 1350HP, 550Volt Motor Data

Motor Data Sheet

| | Value | Units |
|-------------------------------|--------------|--------------|
| Base Frequency | 40 | Hz |
| Base Voltage | 550 | Volts |
| Full Load Current | 1276 | Amps |
| Nominal Power | 1350 (1007) | HP (kW) |
| Nominal Speed | 791 | RPM |
| Full Load Power Factor | 0.84 | |
| Number of Poles | 6 | |
| Maximum Speed | 2200 | RPM |
| Nominal Torque | 8,968 | Ft-Lb |
| Maximum Torque | 22,421 | Ft-Lb |
| No Load Current | 349 | A |
| Stator Resistance | 2.45 | mΩ |
| Stator Inductance | .15 | mH |
| (Reactance at 40 Hz) | 37.8 | mΩ |
| Magnetizing Inductance | 3.02 | mH |
| (Reactance at 40 Hz) | 759 | mΩ |
| Rotor Resistance | 2.92 | mΩ (20 C) |
| Rotor Inductance | .11 | mH |
| (Reactance at 40 Hz) | 27.7 | mΩ |

Motor Nameplate

Model Number: AMD1350.550

Serial Number:

Poles: 6

Enclosure: IP44

Insulation: H

Voltage: 550V

Base Frequency: 40 Hz

Full Load Current: 1276A

No Load Current: 349A

Max Speed: 2200 RPM

PE Bearing: S6330

OPE Bearing: NU332

| Frequency | Power | Speed | Torque | Current |
|-----------|---------|----------|-------------|---------|
| 20 | 675 hp | 395 rpm | 8968 ft-lbs | 1276 A |
| 40 | 1350 hp | 791 rpm | 8968 ft-lbs | 1276 A |
| 60 | 1350 hp | 1185 rpm | 5983 ft-lbs | 1276 A |
| 80 | 1350 hp | 1580 rpm | 4488 ft-lbs | 1276 A |

Stator Impedance: $L_s = .15 \text{ mH}$

$R_s (20C) = 2.45 \text{ m}\Omega$

Rotor Impedance: $L_r = .11 \text{ mH}$

$R_r (20C) = 2.92 \text{ m}\Omega$

Mutual Inductance: $L_m = 3.02 \text{ mH}$