

AmeriMex 1500HP, 550Volt Motor Data

Motor Data Sheet

	Value	Units
Base Frequency	40	Hz
Base Voltage	550	Volts
Full Load Current	1440	Amps
Nominal Power	1500 (1119)	HP (kW)
Nominal Speed	789	RPM
Full Load Power Factor	0.85	
Number of Poles	6	
Maximum Speed	2200	RPM
Nominal Torque	9,986	Ft-Lb
Maximum Torque	24,964	Ft-Lb
No Load Current	349	A
Stator Resistance	2.79	mΩ
Stator Inductance	.17	mH
(Reactance at 40 Hz)	43.0	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: AMD1500.550

Serial Number:

Poles: 6

Enclosure: IP44

Insulation: H

Voltage: 550V

Base Frequency: 40 Hz

Full Load Current: 1440A

No Load Current: 349A

Max Speed: 2200 RPM

PE Bearing: S6330

OPE Bearing: NU332

Frequency	Power	Speed	Torque	Current
20	750 hp	395 rpm	9986 ft-lbs	1440 A
40	1500 hp	789 rpm	9986 ft-lbs	1440 A
60	1500 hp	1183 rpm	6661 ft-lbs	1440 A
80	1500 hp	1577 rpm	4997 ft-lbs	1440 A

Stator Impedance: $L_s = .17 \text{ mH}$

$R_s (20C) = 2.79 \text{ m}\Omega$

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

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

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