

AmeriMex 1750HP, 550Volt Motor Data

Motor Data Sheet

	Value	Units
Base Frequency	40	Hz
Base Voltage	550	Volts
Full Load Current	1683	Amps
Nominal Power	1750 (1305)	HP (kW)
Nominal Speed	790	RPM
Full Load Power Factor	0.83	
Number of Poles	6	
Maximum Speed	2200	RPM
Nominal Torque	11,632	Ft-Lb
Maximum Torque	29,079	Ft-Lb
No Load Current	493	A
Stator Resistance	1.99	mΩ
Stator Inductance	.13	mH
(Reactance at 40 Hz)	32.5	mΩ
Magnetizing Inductance	2.17	mH
(Reactance at 40 Hz)	544	mΩ
Rotor Resistance	2.29	mΩ (20 C)
Rotor Inductance	.08	mH
(Reactance at 40 Hz)	20.1	mΩ

Motor Nameplate

Model Number: AMD1750.550

Serial Number:

Poles: 6

Enclosure: IP44

Insulation: H

Voltage: 550V

Base Frequency: 40 Hz

Full Load Current: 1683A

No Load Current: 493A

Max Speed: 2200 RPM

PE Bearing: S6330

OPE Bearing: NU332

Frequency	Power	Speed	Torque	Current
20	875 hp	395 rpm	11632 ft-lbs	1683 A
40	1750 hp	790 rpm	11632 ft-lbs	1683 A
60	1750 hp	1184 rpm	7761 ft-lbs	1683 A
80	1750 hp	1579 rpm	5822 ft-lbs	1683 A

Stator Impedance: $L_s = .13 \text{ mH}$

$R_s (20C) = 1.99 \text{ m}\Omega$

Rotor Impedance: $L_r = .08 \text{ mH}$

$R_r (20C) = 2.29 \text{ m}\Omega$

Mutual Inductance: $L_m = 2.17 \text{ mH}$