

AmeriMex 1500HP, 460Volt Motor Data

Motor Data Sheet

	Value	Units
Base Frequency	40	Hz
Base Voltage	460	Volts
Full Load Current	1738	Amps
Nominal Power	1500 (1119)	HP (kW)
Nominal Speed	787	RPM
Full Load Power Factor	0.83	
Number of Poles	6	
Maximum Speed	2200	RPM
Nominal Torque	10,006	Ft-Lb
Maximum Torque	25,016	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: AMD1500.460

Serial Number:

Poles: 6

Enclosure: IP44

Insulation: H

Voltage: 460V

Base Frequency: 40 Hz

Full Load Current: 1738A

No Load Current: 493A

Max Speed: 2200 RPM

PE Bearing: S6330

OPE Bearing: NU332

Frequency	Power	Speed	Torque	Current
20	750 hp	394 rpm	10006 ft-lbs	1738 A
40	1500 hp	787 rpm	10006 ft-lbs	1738 A
60	1500 hp	1180 rpm	6675 ft-lbs	1738 A
80	1500 hp	1573 rpm	5007 ft-lbs	1738 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: $L_m = 2.17 \text{ mH}$