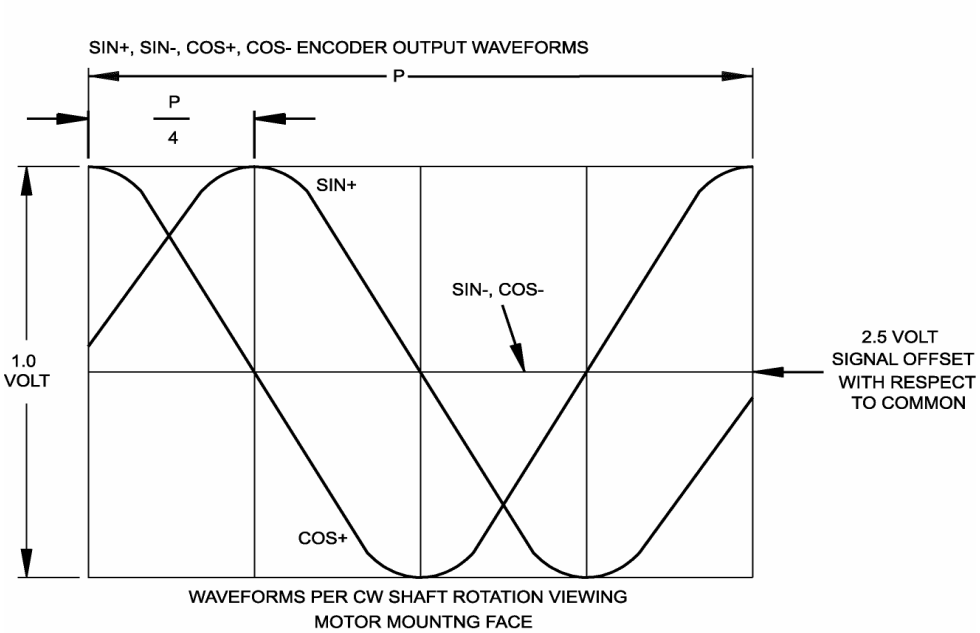

RADIAL LOAD CAPACITY (Kgs) -
NO AXIAL LOAD - FOR L10 LIFE OF 10,000 HOURS
Radial Load Capacity at the End of the Shaft (Kgs)

2500 RPM	1750 RPM	1150 RPM	850 RPM
350	390	450	500

AXIAL THRUST CAPACITY (Kgs) -
NO RADIAL LOAD - FOR L10 LIFE OF 10,000 HOURS
Horizontal Mounting Load Capacity at the End of the Shaft (Kgs)

2500 RPM	1750 RPM	1150 RPM	850 RPM
250	290	330	360

Notes: Print or enlarge waveforms for improved clarity.
For additional specifications see L16M5188ESM.

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REV	ECN	BY	REVISION DESCRIPTION	CHKR	DATE
PREPARED BY			DATE	DESIGN ENGINEER	DATE
VS			4/4/2006		

TITLE

ES, ELEC, HPK-B1611E-SB44AA

Allen-Bradley

PART NO.
L16M5188ESE

A SIZE | SHEET 1 OF 4

Specifications:

1. Motor type: 4 pole, 3 phase, asynchronous, ventilated
2. Base speed: 2975 RPM.
3. Maximum speed: 5000 RPM.
4. Continuous stall torque: 183 Nm (1619 lb-in) max at 155C winding temperature in a 40C
5. Peak stall torque: 400 Nm (3540 lb-in) max.
6. Continuous output rating: 57 kW (hp) max at 2970 RPM. Continuous current @ 2970 RPM 149 Amps 0 to peak max.(105.7 Amps.RMS)
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).
8. Continuous stall current: 149 Amps 0 to peak max.(105.7 Amps.RMS)
9. Magnetizing current: 47.6 Amps. RMS ref.
10. Peak stall current: 338.4 Amps 0 to peak max.(240 Amps. RMS)
11. Insulation class: 180 (H).
12. Housing temperature: 125C max.
13. Winding resistance: .041 Nom. Ohms, phase to phase at 20C to 30C.
14. Winding inductance: 3.3 mH, phase to phase Ref.
15. Dielectric rating of motor power connections (U,V,W), and thermostat connections (TS+, TS-) to ground: 2350 VAC RMS 50/60 Hz for 1 second.
16. Rotor inertia: .177 kg-m^2 Ref.
17. Rotor balancing: Quality grade G-6.3.
18. Product weight: 270 kg (595 lb) Ref.
19. Operating ambient temperature: 0C to 40C (32F to 104F).
20. Storage ambient temperature: -30C to 70C (-22F to 158F).
21. Relative humidity: 5% to 95% non-condensing.
22. Liquid / dust protection: IP54 with blower installed.
23. Shock: 10 g peak max, 6 msec duration (18 occurances tested).
24. Vibration: 2.5 g peak max, 30 to 2000 Hz.
25. Shaft material: Steel, grade 1040/1045.
26. Paint: Black. Shaft, key (if provided), flange mounting surface, and connectors are not painted.

Equivalent circuit parameters

X1: .167 Ohms/phs Ref at 20C to 30C.
X1: .219 Ohms/phs Ref at 20C to 30C.
Xm : 4.82 Ohms/phs Ref at 20C to 30C
R1: .0205 Ohms/phs Ref at 20C to 30C
R2: .0152 Ohms/phs Ref at 20C to 30C

BRAKE: 460VAC 20Nm max. holding torque

not painted.

Notes: "Ref" denotes untoleranced specifications, provided for reference only.

Speed, torque and current specifications are for motor operation with Allen Bradley drives.

01	TITLE
REV	ES, ELEC, HPK-B1611E-SB44AA
Allen-Bradley	PART NO. L16M5188ESE
	A SIZE / SHEET 2 OF 4

Feedback Specifications:

Electrical Hardware:

1. SIN, COS waveform output: 1024 sinusoids/rev.
2. SIN, COS waveform amplitude: 0.9 to 1.1 Volts peak to peak.
3. SIN -, COS - voltage offset with respect to power input common: 2.2 to 2.8 VDC.
4. +5VDC voltage input: 4.5 to 12.0 VDC.
5. +5VDC current input: 125 mA DC max continuous, 1.0 A DC max inrush.
6. TS+, TS- thermostat operating voltage: 250 Volts max.
7. TS+, TS- thermostat operating current: 1.6/2.5 Amps max at 0.6/1.0 power factor.

Serial Communication:

1. DATA+, DATA- signal type, rate: RS 485, 9600 baud, asynchronous.
2. Communication hierarchy: Encoder is slave, communication is externally initiated.
3. Single turn absolute position value range: 0 to 32,767 steps (12 bit).
4. Absolute position data: Binary, value increases with CW shaft rotation viewing motor mounting face.
5. Data (byte) format: Start bit, 8 data bits, parity bit, stop bit.
6. Memory storage capacity: 128 bytes, EEPROM.
7. Encoder temperature data: Binary value of encoder temperature in degrees C.

Note: "Ref" denotes untoleranced specifications, provided for reference only.

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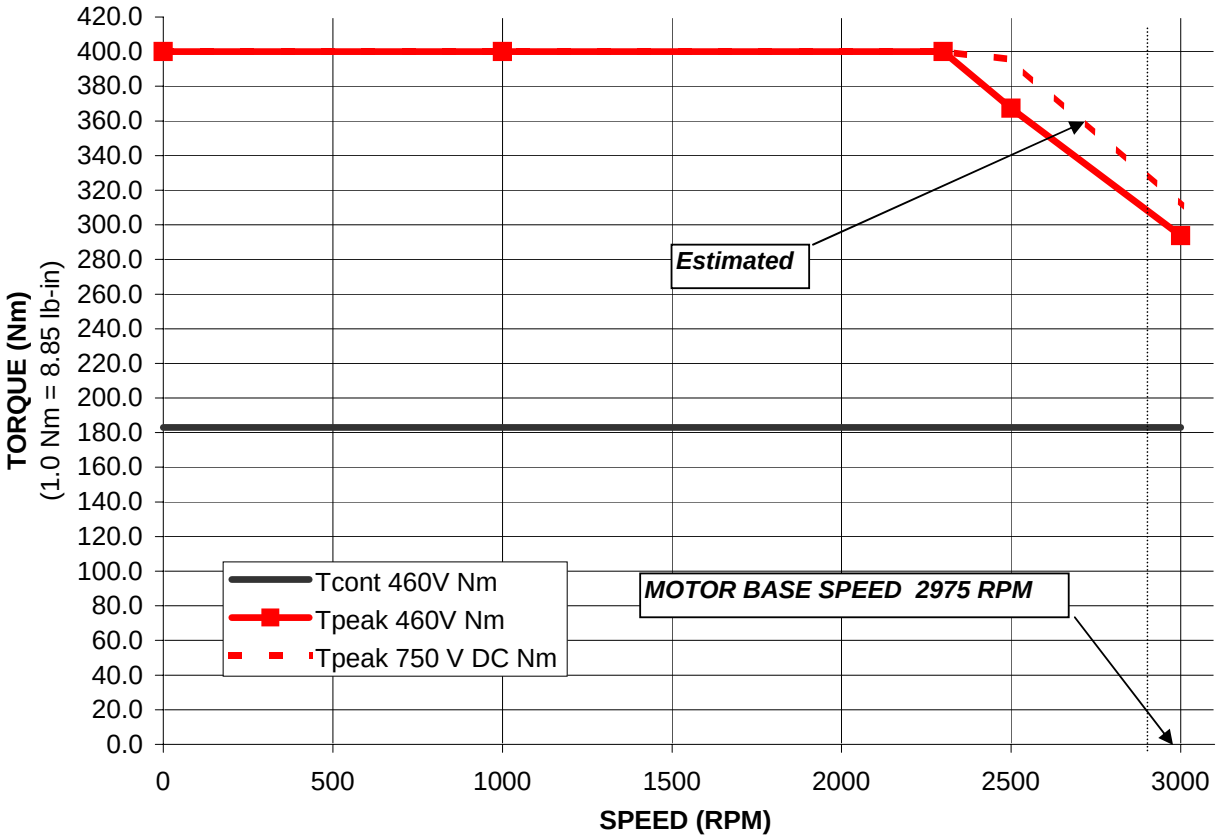
REV	ES, ELEC, HPK-B1611E-SB44AA
Allen-Bradley	PART NO. L16M5188ESE
	A SIZE / SHEET 3 OF 4

SPEED RPM	TORQUE		
	Tcont 460V	Tpeak 460V	Tpeak 750 V DC
	Nm	Nm	Nm
0	182.9	400.0	400.0
1000	182.9	400.0	400.0
2300	182.9	400.0	400.0
2500	182.9	367.2	395.5
3000	182.9	293.8	310.7

SPEED RPM	TORQUE		
	Tcont 460V	Tpeak 460V	Tpeak 750 V DC
	lb-in	lb-in	lb-in
0	1619.0	3540	3540
1000	1619.0	3540	3540
2300	1619.0	3540	3540
2500	1619.0	3250	3540
3000	1619.0	2600	2750

Note: Nm torque values shown are converted from tested lb-in data.

HPK-B1611E-SB44AA Performance with 2099-BM11
at 460 VAC and 750 V DC Drive Input, 40C Motor Ambient



01	TITLE	
REV	ES, ELEC, HPK-B1611E-SB44AA	
Allen-Bradley	PART NO. L16M5188ESE	
	A SIZE	SHEET 4 OF 4