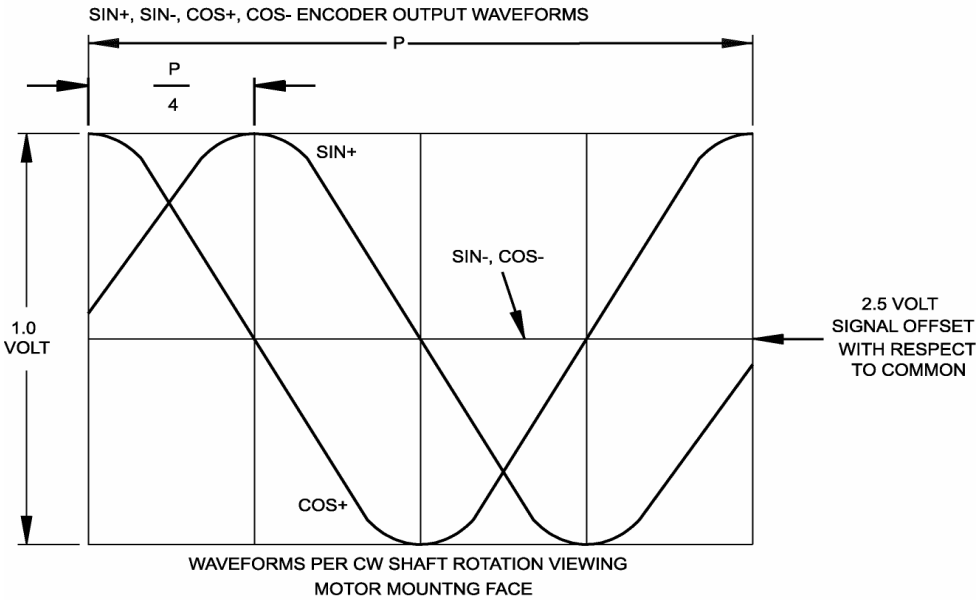


RADIAL LOAD CAPACITY (Kgs) -
NO AXIAL LOAD - FOR L10 LIFE OF 10,000 HOURS
Radial Load Capacity at the End of the Shaft (Kgs)

2500 RPM	1750 RPM	1150 RPM	850 RPM
220	250	290	320

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
180	210	240	260

Notes: Print or enlarge waveforms for improved clarity.
For additional specifications see L13M5200ESM.

01	1021550	VS	RELEASED		
REV	ECN	BY	REVISION DESCRIPTION	CHKR	DATE

PREPARED BY	DATE	DESIGN ENGINEER	DATE
VS	4/4/2006		

TITLE

ES, ELEC, HPK-B1308C-SC44AA

Allen-Bradley

PART NO.
L13M5200ESE

A SIZE | SHEET 1 OF 4

Specifications:

1. Motor type: 4 pole, 3 phase, asynchronous, ventilated
2. Base speed: 1465 RPM.
3. Maximum speed: 3000 RPM.
4. Continuous stall torque: 141 Nm (1247 lb-in) max at 155C winding temperature in a 40C
5. Peak stall torque: 262 Nm (2319 lb-in) max.
6. Continuous output rating: 21.6 kW max at 1465 RPM. Continuous current @ 1465 RPM 59.6 Amps 0 to peak max.(42.3 Amps.RMS)
7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line).
8. Continuous stall current: 59.6 Amps 0 to peak max.(42.3 Amps.RMS)
9. Magnetizing current: 18.6 Amps. RMS ref.
10. Peak stall current: 119.3 Amps 0 to peak max.(84.6 Amps. RMS)
11. Insulation class: 180 (H).
12. Housing temperature: 125C max.
13. Winding resistance: .26 Nom. Ohms, phase to phase at 20C to 30C.
14. Winding inductance: 10.1 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: .098 kg-m^2 Ref.
17. Rotor balancing: Quality grade G-6.3.
18. Product weight: 204 kg (450 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: .504 Ohms/phs Ref at 20C to 30C.
X1: .58 Ohms/phs Ref at 20C to 30C.
Xm : 12.4 Ohms/phs Ref at 20C to 30C
R1: .13 Ohms/phs Ref at 20C to 30C
R2: .0944 Ohms/phs Ref at 20C to 30C

BRAKE: 460VAC 20Nm max. holding torque

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-B1308C-SC44AA
Allen-Bradley	PART NO. L13M5200ESE
	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:

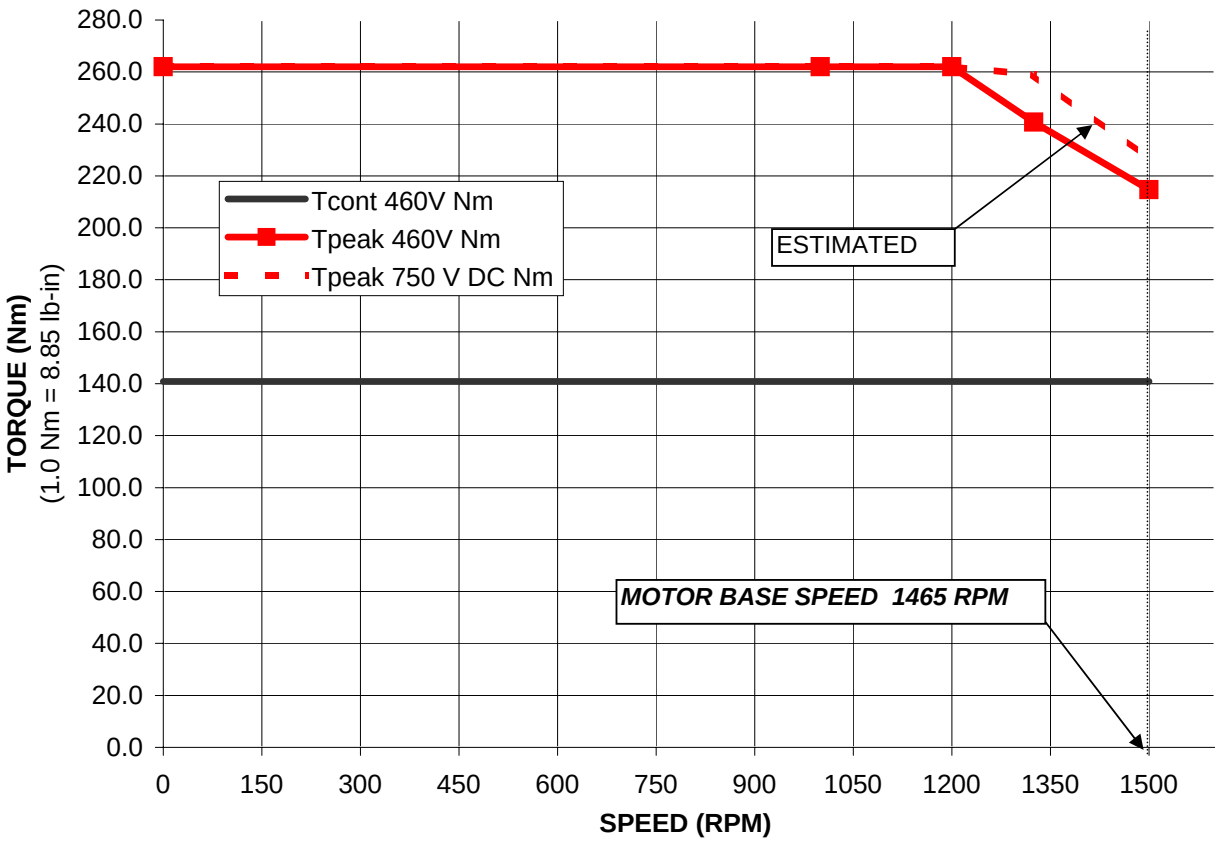
1. DATA+, DATA- signal type, rate: RS 485, 9600 baud, asynchronous.
2. Communication hierarchy: Encoder is slave, communication is externally initiated.
3. Single turn absolute position value range: 0 to 32,767 steps (12 bit).
4. Absolute position data: Binary, value increases with CW shaft rotation 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.

01	TITLE
REV	ES, ELEC, HPK-B1308C-SC44AA
Allen-Bradley	PART NO. L13M5200ESE
	A SIZE / SHEET 3 OF 4

SPEED RPM	TORQUE		
	Tcont 460V	Tpeak 460V	Tpeak 750 V DC
	Nm	Nm	Nm
0	140.9	262.0	262.0
1000	140.9	262.0	262.0
1200	140.9	262.0	262.0
1325	140.9	240.7	259.1
1500	140.9	214.7	226.0

SPEED RPM	TORQUE		
	Tcont 460V	Tpeak 460V	Tpeak 750 V DC
	lb-in	lb-in	lb-in
0	1247.0	2319	2319
1000	1247.0	2319	2319
1200	1247.0	2319	2319
1325	1247.0	2130	2319
1500	1247.0	1900	2000



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

01	TITLE
REV	ES, ELEC, HPK-B1308C-SC44AA
Allen-Bradley	PART NO. L13M5200ESE
	A SIZE / SHEET 4 OF 4