

| Specifications: | | | | | |
|---|-------------------------------------|--------------------------------------|--|--|--|
| 1. Motor type: 4 pole, 3 phase, asynchronous, ventilated | | | | | |
| 2. Base speed: 1480 RPM. | | | | | |
| 3. Maximum speed: 3000 RPM. | ŝ | | | | |
| 4. Continuous stall torque: 360 Nm (3186 lb-in) max at 155C winding temperature in a 40 | | | | | |
| 5. Peak stall torque: 850 Nm (7523 lb-in) max. | | | | | |
| | 2 1480 RPM 153.7 Amps 0 to p | eak max.(109 Amps.RMS) | | | |
| 7. Operating voltage: 460 VAC RMS Ref. (Not for direct connection to AC line). | | | | | |
| 8. Continuous stall current: 153.7 Amps 0 to peak max.(109 Amps.RMS) | | Equivalent circuit parameters | | | |
| 9. Magnetizing current: 54 Amps. RMS ref. | | | | | |
| 10. Peak stall current: 402 Amps 0 to peak max.(285 Amps. RMS) | | X1: .159 Ohms/phs Ref at 20C to 30C. | | | |
| 11. Insulation class: 180 (H). | | X1: .226 Ohms/phs Ref at 20C to 30C. | | | |
| 12. Housing temperature: 125C max. | Xm: 4.22 Ohms/phs Ref at 20C to 30C | | | | |
| 13. Winding resistance: .054 Nom. Ohms, phase to phase at 20C to 30C. | | R1: .0272 Ohms/phs Ref at 20C to 30C | | | |
| 14. Winding inductance: 3.2 mH, phase to phase Ref. | | R2: .0198 Ohms/phs Ref at 20C to 30C | | | |
| 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: .468 kg-m ² Ref. | | | | | |
| 17. Rotor balancing: Quality grade G-6.3. | | | | | |
| 18. Product weight: 474 kg (1045lb) 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), front mounting surface, and connectors are | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | 01 | | | | |
| | | | | | |
| | REV ES, ELEC, HPK-B1815C-SA42BA | | | | |
| Notes: "Ref" denotes untoleranced specifications, provided for reference only. | | DADTNO | | | |
| | | | | | |
| Speed, torque and current specifications are for motor operation with Allen-Brad | | L18M5163ESE | | | |
| Allen Bradley drives. | | 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.

| | 01 TITLE | | | | | | | | |
|-------|---------------|-----------------------------|-------------|-------|---|----|---|--|--|
| | 01 | | | | | | | | |
| | REV | ES, ELEC, HPK-B1815C-SA42BA | | | | | | | |
| | | | PART N | 0. | | | | | |
| only. | Allen-Bradley | | L18M5163ESE | | | | | | |
| - | | - | A SIZE | SHEET | 3 | OF | 4 | | |

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

