



Crown Triton™ Series

- Premium Efficiency Motors
3 Year Warranty
- IEEE-841 Chemical & Process Motors
5 Year Warranty





Crown Triton™ Series

Premium Efficiency Motors

Product Range

- Frame size: 143T to 449TZ
- Horsepower: 1 HP to 250 HP
- Poles: 2, 4, 6 pole
- Enclosure: TEFC, rigid cast iron construction

Typical Features & Construction

- Totally Enclosed Fan Cooled (TEFC)
- 3 Year warranty
- Premium efficiency meets or exceeds EISA 2007 requirements, as defined in NEMA MG1 table 12-12
- NEMA design B torque
- NEMA MG. 1, EEMAC M1-6, CSA C390
- 60 Hz, 208-230/460 V & 575 V (Single voltage only for 150 HP & above)
- Class F insulation with Class B temperature rise
- 1.15 SF at 40°C, 1.0 SF at 65°C
- Continuous duty
- Supply voltage $\pm 10\%$, frequency $\pm 5\%$
- Wye-delta start capability from 15 HP (254T) to 250 HP (449T)
- Star internal connection for 575 V motors
- Part winding start capability at low voltage from 1 HP to 125 HP
- Inverter ready for 10:1 CT & 20:1 VT (NEMA MGI. Part 30)
- Bidirectional rotation
- Quiet running: minimizing noise & vibration
- Low temperature bearing grease (Mobil polyrex EM grease) allows ambient temperature from -35°C to +65°C
- Altitude below 3,300 feet (1,000 meters)
- Rigid cast iron construction
- F-1 mounting (F-2 field modifiable)
- Oversized gasketed conduit box
- Oversized vacuum degassed bearings
- Corrosion resistant severe duty polyurethane paint on motor frame & rotor
- Corrosion resistant zinc plated hardware
- Drive end shaft slinger or V-ring
- Stainless steel name plate
- Low temperature rise design will allow rating above 40°C ambient & altitudes above 3,300 feet at 1.0 service factor
- Fully tested & documented per IEEE Std. 112, method B and CSA390
- Approvals: EEV mark & CC No. (on nameplate)
- CSA for Class I, Division 2, Group A, B, C, D
- C-face & D-flange kits available

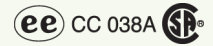


Premium Efficiency Motors

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IEEE-841 Chemical & Process Motors

Product Range

- Frame size: 143T to 449TZ
- Horsepower: 1 HP to 250 HP
- Poles: 2, 4, 6, 8 pole
- Enclosure: TEFC, rigid cast iron construction

Typical Features & Construction

- Totally Enclosed Fan Cooled, IP55 Protection
- 5 Year warranty
- Full compliance per IEEE-841 (2009), motor test report (IEEE-841) supplied with each motor
- Fully tested per IEEE-112, method B
- Meets or exceeds NEMA MG1 (2006), Part 31
- Premium efficiency meets or exceeds EISA 2007 requirements, as defined in NEMA MG1 table 12-12
- NEMA design B torque
- Single voltages, 460 V or 575 V, 60 Hz full range
- Hyundai's inverter shield insulation system using inverter grade magnet wire & Hyundai's own low stress winding technique for exceptional corona & transient protection
- Constant torque - 10:1 speed range
- Variable torque - 1,000:1 speed range
- Suitable for 1.5 times of base speed, constant HP (subject to mechanical limits)
- Class F insulation with Class B temperature rise
- 1.15 SF at 40°C, 1.0 SF at 65°C
- Class H non-hydroscopic varnish, double dip & bake cycles
- Supply voltage $\pm 10\%$, frequency $\pm 5\%$
- Altitude up to 3,000 feet (1,000 meters) without derating; ambient temperature from -35°C to +40°C
- Corrosion resistant, non-sparking polypropylene cooling fan
- Corrosion resistant severe duty polyurethane paint on motor frame & rotor
- Stainless steel condensation T-drain plugs on DE & NDE
- Neoprene lead separator
- Precision foot flatness eliminates soft foot & extends bearing life, to within 0.005"
- Precision balanced rotor not to exceed 0.08 inches / second peak velocity
- [ProTech™ \(IP66\) labyrinth bearing isolators on both bearings](#)
- Oversize vacuum degassed bearings
- Approvals: CSA C US, EEV mark
- Certified for Class I, Division 2 / Zone 2, Groups A, B, C & D / II A, II B & II C with temperature code T3C for NEMA 140T to 320T frames & T3A for NEMA 360T to 440T frames



IEEE-841 Motors

WorldWide Electric is the exclusive Hyundai Heavy Industries motor representative in the U.S., Mexico, the Caribbean and Central America

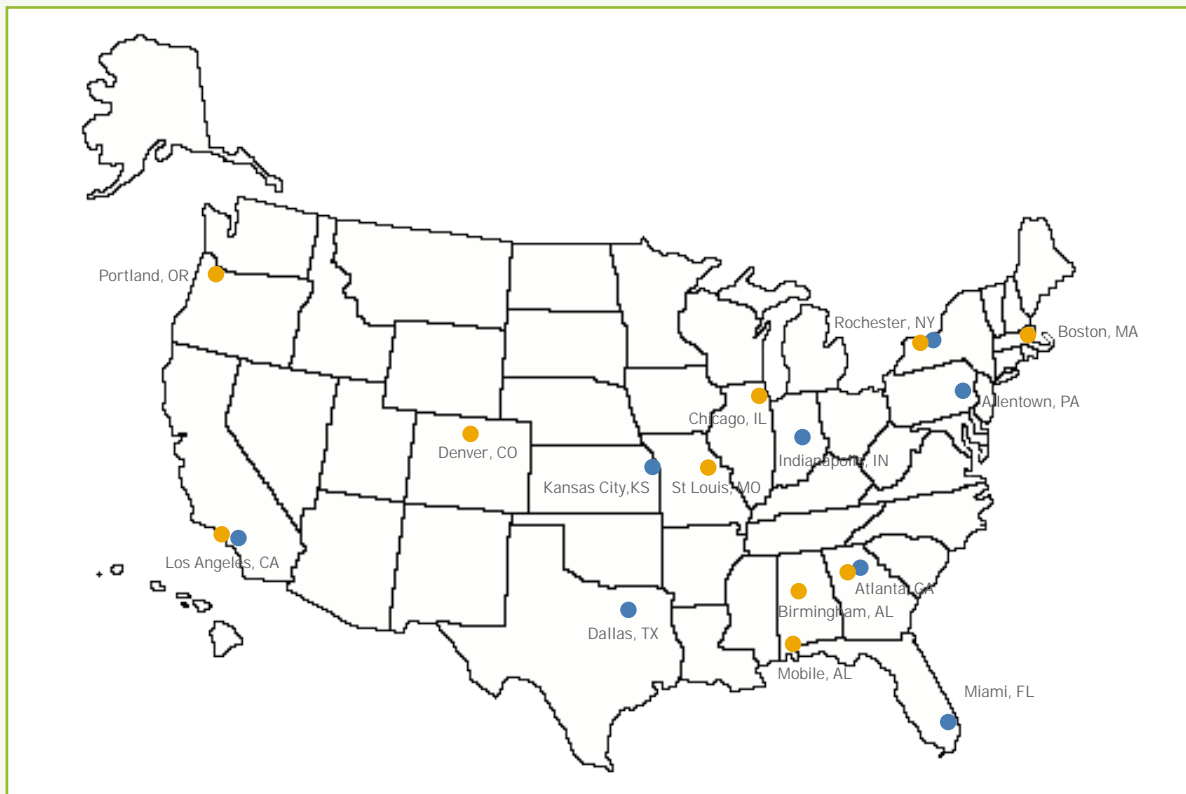
- **Warehouse Locations**

Rochester, NY / Allentown, PA / Atlanta, GA / Dallas, TX / Indianapolis, IN /
Kansas City, KS / Los Angeles, CA / Miami, FL

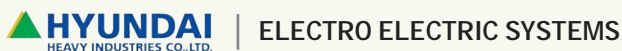
* Available For Pick-Up Or Delivery 24 Hours A Day - 7 Days A Week

- **Sales Offices**

Rochester, NY / Atlanta, GA / Birmingham, AL / Mobile, AL / Boston, MA /
Chicago, IL / St. Louis, MO / Denver, CO / Los Angeles, CA / Portland, OR



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