

Crusher Duty Products

Low & Medium Voltage



MAX-HT™
High Torque Crusher Motors

TEAMMaster™
Soft Starters

MAX-HT™ High Torque Crusher Motors



LOW VOLTAGE

- 20 hp - 600 hp, 4 Pole, 6 Pole and 8 Pole
- 3 Phase, 60 Hz - 230/ 460V (useable on 208V); 150 hp and larger motors are 460V only
- Class F Insulation with phenolic alkyd resin varnish – 2 dips and bakes and 1-spray enamel top coating for abrasion resistance
- Thermal protection (140°C thermistors, one per phase)
- Aluminum die-cast rotor construction

MEDIUM VOLTAGE

- 100 hp - 900 hp, 4 Pole, 6 Pole and 8 Pole
- 3 Phase, 60 Hz - 2300/ 4160V
- Class F insulation with VPI treatment of solventless epoxy varnish
- Thermal Protection (100 Ohm Platinum RTDs, 2 per phase)
- Standard with 120V space heaters terminated in separate auxiliary box
- Aluminum die-cast rotor construction (copper/ copper alloy available upon request)



COMMON FEATURES & BENEFITS

- High efficiency designs meet EPC requirements where applicable
- Class I, Division 2, Groups A, B, C, & D, Temperature Code T3
- Class II, Division 2, Groups F & G, Temperature Code T3
- Suitable for across-the-line starting and Y-Delta starting
- NEMA Design C (Locked Rotor Torque \geq 200% FLT; Breakdown Torque \geq 250% FLT)
- Class F insulation with Class B temperature rise
- TEFC (IP 55) enclosure
- Bi-directional rotation
- Cast iron construction on frame and end brackets
- Lightweight rolled steel plated fan cover
- Oversized main terminal box rotatable in 90 degree increments, fully gasketed with NPT Threaded Entrances – F1 Mounted; Cast iron through 449T frame, fabricated steel through 6800 frame
- Oversized roller bearing with regreasable construction for belt drive applications
- Shaft V-ring seal on both ends (provisions required for Inpro-Seal modification as option)
- Two threaded drain holes with one-way breather (horizontal applications)
- Locknut and washer on ODE for vertical applications (either shaft up or down)
- Drain holes/ plugs installed at lowest point on end brackets, on both ends on frames 5000 and larger
- High strength steel shaft of AISA 4140 shaft material
- Radius step-down shaft shoulder to avoid broken shaft
- Polyurethane surface finish paint
- Stainless steel nameplate
- Corrosion resistant hardware



Heavy Duty Crusher Starters

The TECO-Westinghouse **TEAMMaster™ Heavy Duty Solid State Starter** is the perfect match for your **MAX-HT™** motor. Together they make a great package to control start-up and operation of the toughest crusher applications. Our reliable solid state starters are equipped with an internal across-the-line bypass for no downtime peace of mind. With a flip of the emergency bypass switch, your process keeps running until your soft start is back online.

TEAMMaster™ SOLID STATE STARTER FEATURES

Low Voltage:

- 230 - 575VAC
- 25 - 600 hp
- Rugged design for frequent, heavy starts
- NEMA 12 enclosure construction keeps out dirt, dust & oil or NEMA 3R for outdoor installations
- Full HP rated across-the-line bypass contactors for any emergency
- Complete electronic motor protection including full voltage start overload
- Emergency bypass switch for simple run bypass select
- Solid starter has proven performance & reliability
- Solid state power devices (SCR's) are the highest PIV ratings in the industry
- Capable of 500% full load amps for 30 seconds and 125% continuous duty
- Fully programmable to meet crusher motor starting requirements

Medium Voltage:

- 2300 - 6900VAC
- 500 - 6000 hp
- NEMA 12 or NEMA 3R, UL 374 listed, Class F
- 500% Full Load Amps - 30 second rating
- Selectable solid state or emergency full voltage operation via selector switch
- Load matched Class R fusing with blown fuse indication
- 400A load break, 600A continuous 5kV rated disconnect switch
- Built-in self test (BIST) features for quick commissioning
- Fiber optic cabling

Keep it rolling with TECO-Westinghouse.





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