

MAX-HT™ MEDIUM VOLTAGE CRUSHER DUTY



AEHAGD, ENERGY EFFICIENT, HIGH TORQUE [KD]

Effective 07-08-18
Supersedes 03-24-17



APPLICATIONS:

- Mills
- Grinders
- Compressors
- Crushers
- Impacters
- Ball Mills
- Shredders
- High Torque Applications

FEATURES:

- Output Range: 100 - 900 HP
- Speed: 1800, 1200 & 900 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP55)
- Voltage: 2300/4000V⁽¹⁾
- Three Phase, 60 Hz, 1.15 Service Factor (Continuous)
- CSA Certified for Class I, Div. 2, Groups B, C, D - Temp Code T3 Minimum
- CSA Certified for Class II, Div. 2, Groups F & G - Temp Code T3 Minimum
- Class F Insulation
- Class B Temperature Rise
- NEMA Design C Torques; Equal or Greater Than 200% Starting Torque / 250% Breakdown Torque
- Cast Iron Frame, End Brackets; Pressed Steel Plate Main Conduit Box and Fan Cover⁽⁵⁾
- Grounding Terminal Inside Main Conduit Box with additional Foot Grounding Provision
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - F1 Mounted
- Designed for 40°C Ambient Temperature⁽²⁾
- Designed for 3300 ft. Elevation⁽³⁾
- Bi-Directional Rotation
- High Strength 4140 AISI Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Dark Gray - Munsell 7.5 BG 3.5/0.5
- High Quality Ball (or Roller) Bearings Regreasable with Mobil Polyrex™ EM
- Automatic Grease Discharge Fittings
- Labyrinth Type Metal Flinger on Both Ends
- Cast Iron Inner and Outer Bearing Caps
- Stainless Steel Nameplate
- Suitable for Inverter Duty (PWM - Pulse Width Modulation) per NEMA MG-16
- Inverter Duty Speed Range: 10:1 Variable Torque, 3:1 Constant Torque⁽⁶⁾
- 6 Leads
- CSA Approved
- Locknut and Washer on NDE for Vertical Shaft Down Applications
- Drain Holes / Plugs on Both End Brackets for Vertical Applications
- Threaded One Way Breather Drains for Horizontal Mount Applications
- 100 Ohm Platinum Stator RTD's (2/Phase); in separate Auxiliary Box
- Space Heaters (120V); in separate Auxiliary Box⁽⁴⁾
- Mounting Provisions for Bearing RTD's and Vibration Detectors on F# 5007 and Larger

EXTRAS/ OPTIONS:

Please refer to pages 147 - 154 for common modifications that can be performed.

Notes:

- (1) Suitable for Full Voltage Direct On-Line Connection, Wye-Delta Start, Reduced Voltage Start or VFD.
- (2) Consult a Stock Product Application Specialist for suitability in higher ambient environments.
- (3) Consult a Stock Product Application Specialist for suitability at higher elevations.
- (4) Space Heaters are Low Temperature Type; Suitable for Hazardous Location Division 2 Environments
- (5) F# 447T(Z) - 449T(Z) with Cast Iron Main Conduit Box and Cast Iron Fan Cover.
- (6) Motor service factor is 1.0 when operated on a VFD.

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CATALOG NO.	HP	RPM	FRAME	FL EFF (%)	FL PF (%)	FL AMPS (2300V)	APPROX. SHIPPING. WT. (lbs.)
KD1004	100	1800	447TZ	94.50	82.2	24.0	2,220
KD1006R	100	1200	447TZ	94.10	77.8	26.0	2,175
KD1008R	100	900	447TZ	93.00	72.2	28.0	2,400
KD1254	125	1800	447TZ	94.50	82.6	30.0	2,350
KD1256R	125	1200	449TZ	94.10	79.2	32.0	2,625
KD1258R	125	900	449TZ	93.60	72.5	35.0	2,575
KD1504	150	1800	449TZ	95.00	83.0	36.0	2,550
KD1506R	150	1200	449TZ	95.00	74.9	40.0	3,830
KD1508R	150	900	5007C	93.60	76.7	40.0	3,650
KD2004	200	1800	5007B	95.00	82.6	48.0	3,970
KD2006R	200	1200	5007C	95.00	75.0	55.0	3,950
KD2008R	200	900	5009C	94.10	76.3	53.0	3,875
KD2504	250	1800	5007B	95.00	82.7	60.0	4,050
KD2506R	250	1200	5009C	95.00	75.8	66.0	4,080
KD2508R	250	900	5009C	94.50	76.5	65.0	4,210
KD3004	300	1800	5009B	95.40	83.0	72.0	4,155
KD3006R	300	1200	5009C	95.00	76.0	79.0	4,235
KD3008R	300	900	5011C	94.50	77.1	78.0	4,660
KD3504	350	1800	5009B	95.40	82.8	84.0	4,305
KD3506R	350	1200	5011C	95.00	76.8	91.0	4,460
KD3508R	350	900	5808C	94.50	76.0	92.0	5,825
KD4004	400	1800	5011B	95.40	83.7	95.0	4,490
KD4006R	400	1200	5808C	95.00	75.3	106.0	4,725
KD4008R	400	900	5808C	94.50	75.8	106.0	6,280
KD4504	450	1800	5011B	95.40	83.7	107.0	4,620
KD4506R	450	1200	5808C	95.00	75.8	118.0	5,400
KD4508R	450	900	5810C	94.50	75.9	119.0	6,585
KD5004	500	1800	5011B	95.80	82.9	119.0	4,845
KD5006R	500	1200	5810C	95.00	76.5	130.0	5,710
KD5008R	500	900	5810C	94.50	76.1	131.0	7,040
KD6004	600	1800	5810B	95.80	81.9	144.0	6,115
KD6006R	600	1200	5810C	95.00	78.1	153.0	6,160
KD6008R	600	900	6808C	94.50	76.8	156.0	7,830
KD7004	700	1800	5810B	95.80	82.6	167.0	6,610
KD7006R	700	1200	6808C	95.00	81.8	170.0	8,260
KD7008R	700	900	6808C	94.50	77.1	182.0	8,755
KD8004	800	1800	6808B	95.80	80.3	196.0	7,900
KD8006R	800	1200	6808C	95.00	82.3	193.0	8,955
KD9004	900	1800	6808B	95.80	80.9	219.0	8,360

Notes:

(1) All data subject to change without notice.