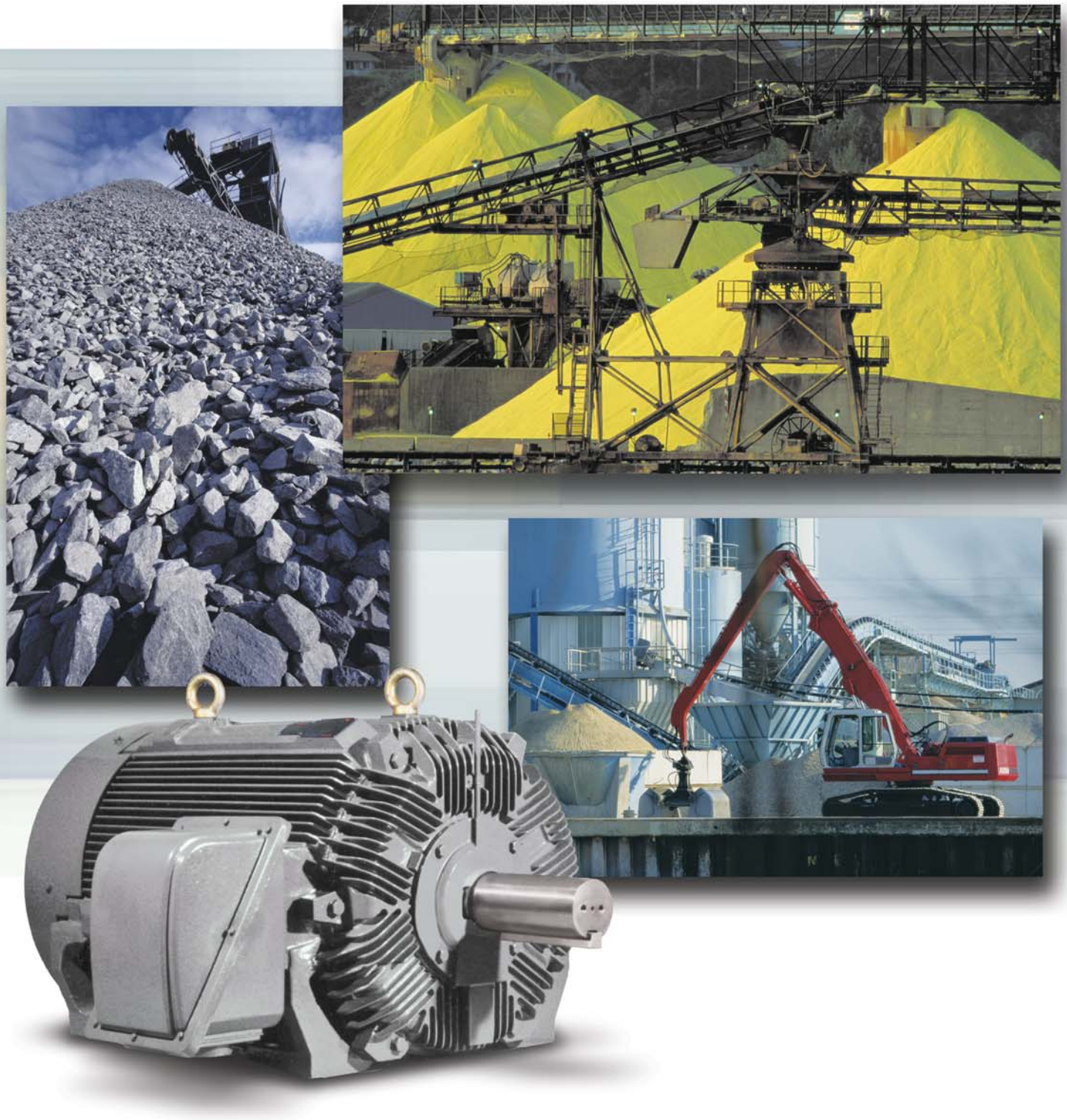
MAX-HT

High Torque Crusher Motor



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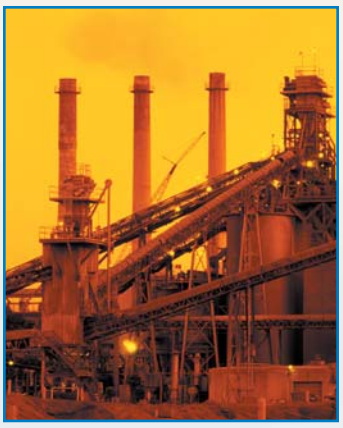


Features of the MAX-HT

RANGE

- 200HP to 500HP, 4P, 6P and 8P.

ELECTRICAL

- 3 Phase, 60Hz, 460V (6 Leads).
- Suitable for Across the Line Starting and Y-Delta Starting.
- NEMA Design C (Locked Rotor Torque ≥ 200% FLT; Breakdown Torque ≥ 250 % FLT).
- Class F Insulation with Class B Rise.
- Moisture Resistant Copper – 2DIPs & BAKEs with Epoxy Resin and 1-spray Enamel Top Coating for Abrasion Resistance.
- Thermal Protection (Thermistors, One Per Phase).
- Squirrel-Cage, Aluminum Conductor with End-ring and Wafer Blades Integrally Cast Rotor for all Frame Sizes.

MECHANICAL

- IP 55 Enclosure.
- Bi-directional Rotation.
- Cast Iron Construction on Frame, End Brackets and Main Conduit Box.
- Steel Plate Fan Cover.
- Oversized Roller Bearing with Regreasable Construction for Belt Drive Applications.
- IP 55 Bearing Assembly.
- Two Threaded Drain Holes with One-Way Breather (Horizontal Applications).
- Locknut and Washer on ODE for Vertical Shaft Down Applications; Drain Holes/Plugs Installed at Lowest Point on End Brackets/Both ends. Contact Your Local TWMI Sales Representative for Shaft-Up Applications.
- High Strength Steel Shaft AISI 4140 Shaft Material.
- Radius Step-down Shaft Shoulder to Avoid Broken Shaft.
- Polyurethane Surface Finish Paint.
- Stainless Steel Nameplate.
- Corrosion Resistant Hardware.

MAX-HT *High Torque Crusher Motor*

PERFORMANCE DATA

(460V)

HP	Full Load RPM	Frame Size (EG)	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE					
			Full Load (%)	3/4 Load (%)	1/2 Load (%)	Full Load (%)	3/4 Load (%)	1/2 Load (%)	Full Load A	Locked Rotor A	Full Load lb-ft	Locked Rotor %FLT	Pull Up %FLT	Break-Down %FLT	Rotor WR² lb-ft²	Approx. Weight LBS
200	885	5007C	93.6	91.8	90.4	80.0	76.0	66.0	250	1450	1188	200	160	250	230	3550
250	?	5007C	94.1	92.4	91.0	85.0	82.5	74.0	293	1825	1113	200	160	250	205	3400
	?	5009C	94.1	92.4	91.0	80.0	76.0	66.0	311	1825	1485	200	160	250	275	4000
300	1775	5007C	94.1	92.4	91.0	89.5	86.5	81.5	334	2200	887	200	160	250	132	3200
	1180	5009C	94.1	92.4	91.0	85.0	82.5	74.0	351	2200	1335	200	160	250	240	4100
	885	5806C	94.1	92.4	91.0	81.0	77.0	68.0	368	2200	1782	200	160	250	456	4850
350	1775	5009C	94.1	92.4	91.0	89.5	86.5	81.5	389	2550	1035	200	160	250	154	3650
	1183	5806C	94.5	93.0	91.0	85.0	81.5	74.0	407	2550	1553	200	160	250	340	4600
	885	5808C	94.5	92.4	91.0	81.0	77.0	68.5	428	2550	2078	200	160	250	540	5750
400	1780	5806C	94.5	93.0	90.2	89.5	86.5	81.5	443	2900	1180	200	160	250	270	4200
	1183	5808C	94.5	93.0	90.2	85.5	82.0	75.0	464	2900	1775	200	160	250	375	5100
	888	5808C	94.5	92.4	90.2	81.5	77.5	68.5	486	2900	2364	200	160	250	572	5550
450	1780	5808C	94.5	93.0	91.0	90.0	87.5	82.5	495	3250	1327	200	160	250	303	4850
	1183	5808C	94.5	93.0	91.0	85.5	82.5	75.0	521	3250	1997	200	160	250	405	5300
500	1780	5808C	94.5	93.0	91.0	90.0	87.5	82.5	550	3625	1475	200	160	250	340	5300
	1183	5808C	94.5	93.0	91.0	85.5	82.5	75.5	579	3625	2219	200	160	250	435	5650

NOTE:
1. The above are typical values based on test
2. Test method : A. ANSI/IEEE standard 112-1996 Method B and full voltage starting for motors not over 300HP
   B. ANSI/IEEE standard 112-1996 Method E1 and full voltage starting for the others
3. Data subject to change without notice
4. Tolerance according to name MG-1-12 & IEC 34-1

DIMENSIONAL DATA

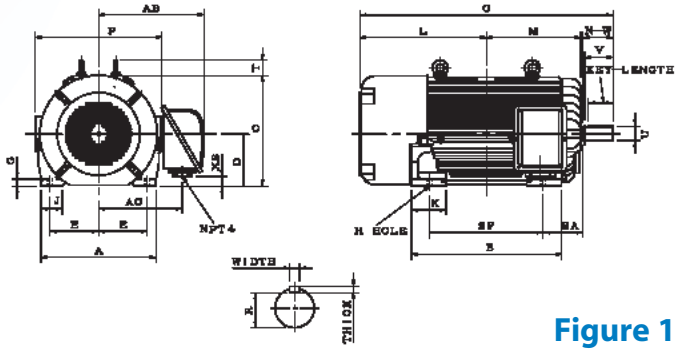


Figure 1

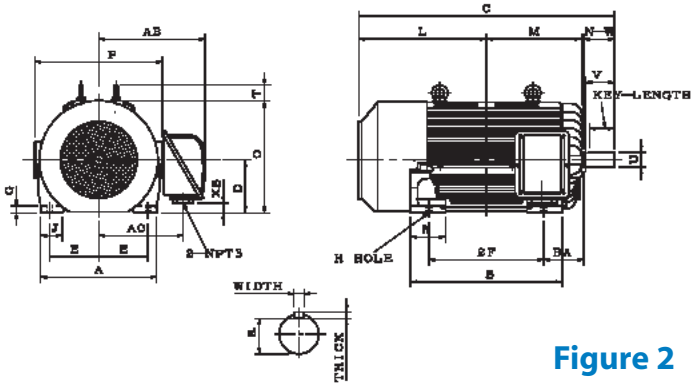


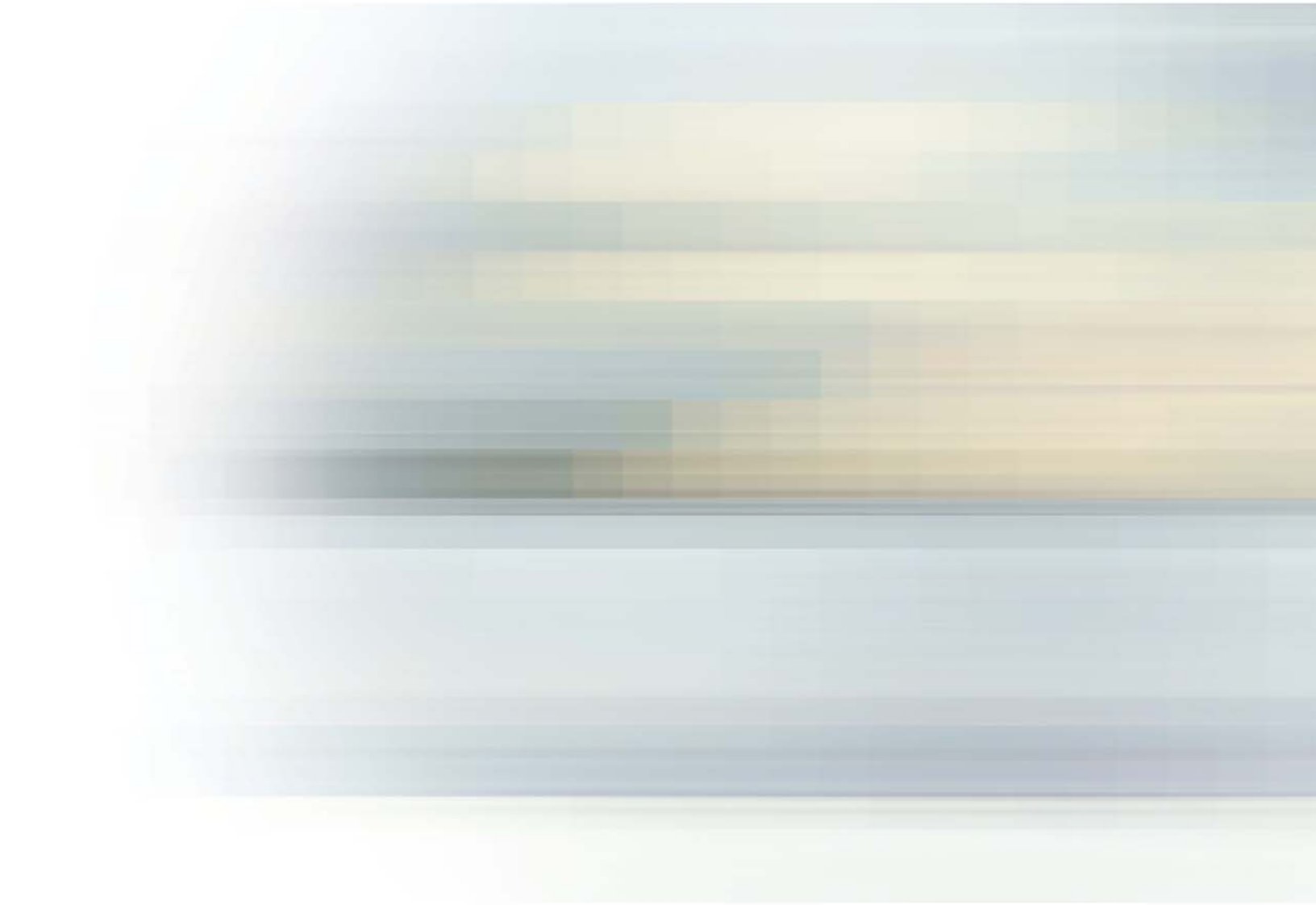
Figure 2

(Dimensions in inches)

Pole	Frame Size	Figure No.	Mounting				A	B	C	D	G	J	K	L	M	O	P
			E	2F	H	BA											
4, 6, 8	5007C	1	10.0	22	0.94	8.5	25.6	28.75	56.92	12.5	1.85	5.9	7.1	25.8	19.15	26.25	30.6
4, 6, 8	5009C	1	10.0	28	0.94	8.5	25.6	34.65	62.87	12.5	1.85	5.9	7.1	28.75	22.1	26.25	30.6
4, 6, 8	5806C	2	11.5	22	1.13	10	29.55	30.7	61.43	14.5	2.1	5.9	7.9	28.55	20.45	30.7	35.75
4, 6, 8	5808C	2	11.5	28	1.13	10	29.55	36.6	67.38	14.5	2.1	5.9	9.65	31.5	23.4	30.7	35.75

Pole	Size	T	Key			Key Seat R	Terminal Housing			Shaft Extension			Bearings	
			Width	Thick	Length		AB	AC	XB	N-W	U	V	Drive End	Non-Drive End
4, 6, 8	5007C	3.55	1	1	10	3.309	26.2	20.1	2.75	11.62	3.875	11.12	NU324C3	6320
4, 6, 8	5009C	3.55	1	1	10	3.309	26.2	20.1	2.75	11.62	3.875	11.12	NU324C3	6320
4, 6, 8	5806C	4.35	1.25	1.25	10	4.169	29.35	23.25	2.95	11.88	4.875	11.38	NU326C3	6322
4, 6, 8	5808C	4.35	1.25	1.25	10	4.169	29.35	23.25	2.95	11.88	4.875	11.38	NU326C3	6322

NOTE:
1. Dimension D Tolerance: +0.00 Inch, -0.06 Inch
2. Dimension U Tolerance: +0.000 Inch, -0.001 Inch
3. Dimension R Tolerance: +0.000 Inch, -0.015 Inch
4. Dimension V is the Length of Straight Part of Shaft



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