

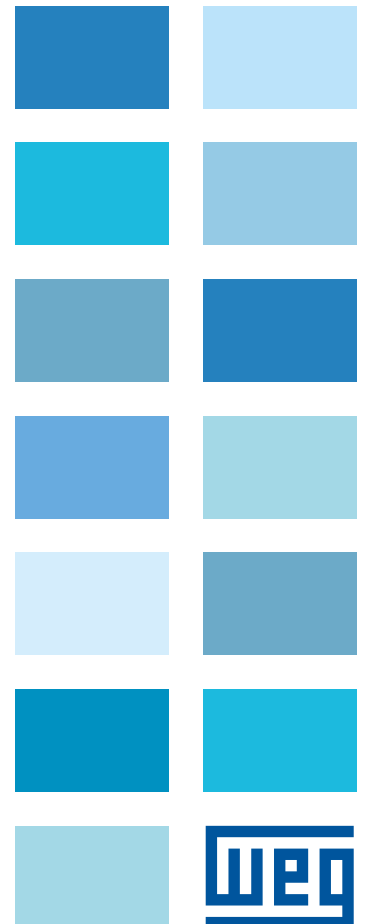
CrusherDuty®

Motor
TPH Starter

- Roller Bearing
- Reinforced Cast Iron
- Durable
- Quality

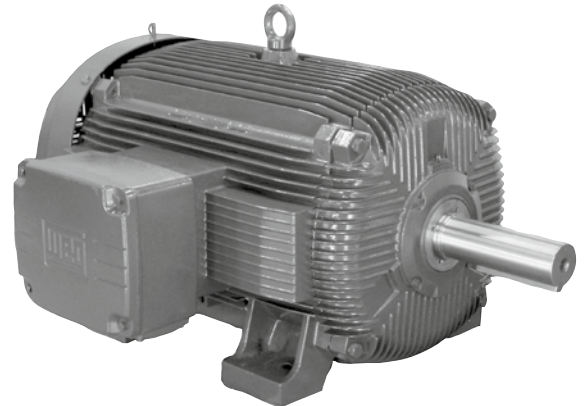


CD0808



FOR THE MOST DEMANDING ROCK CRUSHER APPLICATIONS

WEG Crusher Duty® motors are specifically designed to meet the demanding requirements of the rock crushing industry. FC200 grade cast iron provides superior strength and heat dissipation. And 4140 high-strength steel shafts keep the motor running when others fail. These motors are designed for vertical or horizontal mounting and have exceptional high starting and breakdown torque. Compare the standard features of the WEG Crusher Duty motor to any other and see why these motors are “Crusher Duty” tough!



STANDARD FEATURES

- Primary, secondary and tertiary crusher
- Jaw crushers
- Roller crushers
- Vertical Shaft Impact crushers
- Gyration crushers
- Cage mills
- Cone crushers
- Horizontal Shaft Impact crushers
- Hammermills
- Grizzly feeders
- Also recommended for belt feeders and belt conveyors
- High torque for maximum performance – highest break-down torque
- Three-phase, 60Hz
- Voltage: 208-230/460 or 460V
- Totally Enclosed Fan Cooled – TEFC (IP55) water tight and dust tight enclosure
- Class ‘F’ insulation for all frames
- Class ‘H’ resin insulation system
- Service factor: 1.15
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Roller bearings standard on all Crusher Duty® model motors
- F1 mount
- Terminal box rotatable
- Stainless steel nameplate - laser etching
- Versatile starting methods – capable of wye-delta, across line and part winding (12 leads)
- Paint: synthetic enamel alkyd resin base (exceeds ASTM B117 salt spray test)
- Color: RAL 7022 – Dark Gray

“Z” MOTORS

- Larger diameter shafts for the highest overhung load ratings in the industry
- Oversized roller bearings for maximum load capacity
- Labyrinth seal on both ends



Note: All motors are tested according to IEEE 112 Std. – Method ‘B’ or C390 CSA. Energy efficiency motors verified by UL in addition to the DOE.

Features of Crusher Duty:

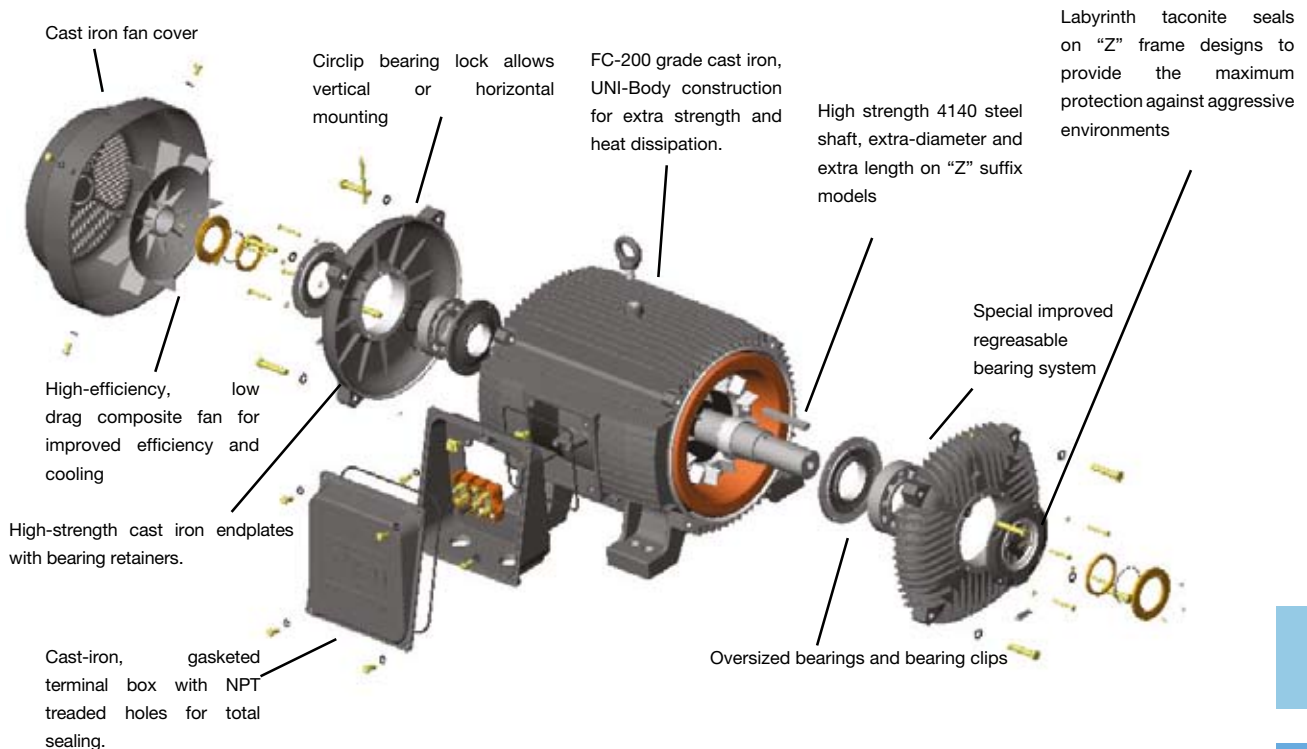
- Reinforced Cast iron End Bells
- 4140 High-Strength Shaft
- Roller Bearing
- Spike Resistant Wire per NEMA MG1 Part 31
- UL and CSA certified
- Vertical Shaft Down Features all in one motor

“TZ” Oversized Shaft Motors Provided with:

- Larger Diameter Shaft
- Brass Labyrinth Seal on Both Ends
- Terminal Block



WEG – THE ORIGINAL AND STILL THE BEST CRUSHER DUTY® MOTOR IN THE INDUSTRY



THE ONLY MOTORS OFFICIALLY REGISTERED AS CRUSHER DUTY®

Crusher Duty® Motors

Crusher Duty® Motors – Horizontal



HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
50	900	404T	05009ES3EKD404T	8,310	K1	1116	61.5	91.0	38.077	208-230/460V	○
60	900	405T	06009ES3EKD405T	9,397	K1	1169	75.5	91.0	38.077	208-230/460V	○
75	900	444T	07509ES3GKD444T	13,733	K1	1631	92.5	92.0	43.776	460V	○
100	1800	405T	10018EP3ERB405T	9,547	W1	1273	115	94.5	38.077	208-230/460V	○
	1800	405T	10018EP3GRB405T	9,547	W1	1273	115	94.5	38.077	460V	○
	1200	444T	10012EP3GRB444T	13,027	W1	1720	121	94.1	43.776	460V	○
	900	445T	10009ES3GKD445T	16,009	K1	1896	133	92.0	43.776	460V	○
125	1800	444T	12518EP3GRB444T	12,678	W1	1647	138	94.5	43.776	460V	○
	1200	445T	12512EP3GRB445T	15,429	W1	2050	141	94.1	43.776	460V	○
	900	447T	12509ES3GKD447T	19,007	K1	2132	155	92.5	47.299	460V	○
150	1800	445T	15018EP3GRB445T	14,952	W1	1841	168	95.0	43.776	460V	○
	1200	447T	15012EP3GRB447T	18,105	W1	2167	171	95.0	47.299	460V	○
	900	447T	15009ES3GKD447T	21,191	K1	2337	189	92.5	47.299	460V	○
200	1800	445T	20018EP3GRB445T	18,506	W1	2117	230	95.0	43.776	460V	○
	1800	447T	20018EP3GRB447T	18,506	W1	2194	230	95.0	47.299	460V	○
	1200	447T	20012EP3GRB447T	22,410	W1	2467	236	95.0	47.299	460V	○
	1200	505Z	20012EP3GKD505Z	20,945	K1	2517	236	95.0	50.449	460V	○★
	900	449T	20009ES3GKD449	30,910	K1	3706	265	93.5	54.976	460V	○
	900	449TZ	20009ES3GKD449TZ	30,910	K1	3856	265	95.5	58.370	460V	○★◆
	900	586/7	20009ES3GKD586/7	38,314	K1	3925	256	94.5	59.421	460V	○◆
250	1800	447T	25018ES3GKD447T	19,454	K1	2425	286	94.5	47.299	460V	○
	1800	447TZ	25018ES3GKD447TZ	19,454	K1	2475	286	94.5	50.424	460V	○★◆
	1800	505	25018ES3GKD505	20,173	K1	2425	286	94.5	49.449	460V	○◆
	1800	505Z	25018ES3GKD505Z	20,173	K1	2475	286	94.5	50.449	460V	○★◆
	1200	449T	25012ES3GKD449	26,167	K1	3274	307	94.5	54.976	460V	○
	1200	449TZ	25012ES3GKD449TZ	26,167	K1	3324	307	94.5	58.370	460V	○★◆
	1200	586/7	25012ES3GKD586/7	33,070	K1	3660	305	94.0	59.421	460V	○◆
	1200	586/7Z	25012ES3GKD580Z	33,070	K1	3710	305	94.0	64.949	460V	○★
	900	586/7	25009ES3GKD586/7	41,203	K1	4123	313	93.9	59.421	460V	○
300	1800	449T	30018ES3GKD449	27,234	K1	3104	354	94.1	54.976	460V	○
	1800	449TZ	30018ES3GKD449TZ	27,234	K1	3154	354	94.1	58.370	460V	○★◆
	1800	586/7	30018ES3GKD586/7	31,557	K1	3372	331	95.0	59.421	460V	○◆
	1800	586/7Z	30018ES3GKD580Z	31,557	K1	3422	331	95.0	64.949	460V	○★
	1200	449T	30012ES3GKD449	34,158	K1	3495	360	94.7	54.976	460V	○
	1200	449TZ	30012ES3GKD449TZ	34,158	K1	3545	360	94.7	58.370	460V	○★◆
	1200	586/7	30012ES3GKD586/7	38,473	K1	3903	361	94.5	59.421	460V	○
	1200	586/7Z	30012ES3GKD580Z	38,473	K1	3953	361	94.5	64.949	460V	○★
900	586/7	30009ES3GKD586/7	51,705	K1	4293	367	94.0	59.421	460V	○	

Crusher Duty® Motors

Crusher Duty® Motors – Horizontal

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
350	1800	449T	35018ES3GKD449	30,188	K1	3472	404	95.0	54.976	460V	○
	1800	449TZ	35018ES3GKD449TZ	30,188	K1	3522	404	95.0	58.370	460V	○★◆
	1800	586/7	35018ES3GKD586/7	33,863	K1	3760	391	95.0	59.421	460V	○◆
	1800	586/7Z	35018ES3GKD580Z	33,863	K1	3810	391	95.0	64.949	460V	○★
	1200	586/7	35012ES3GKD586/7	42,076	K1	4355	420	94.9	59.421	460V	○◆
	1200	586/7Z	35012ES3GKD580Z	42,076	K1	4405	420	94.9	64.949	460V	○★
	900	586/7	35009ES3GKD586/7	54,381	K1	4686	431	94.7	59.421	460V	○◆
400	1800	586/7	40018ES3GKD586/7	39,338	K1	4168	451	95.0	59.421	460V	○◆
	1800	586/7Z	40018ES3GKD580Z	39,338	K1	4218	451	95.0	64.949	460V	○★
	1200	586/7	40012ES3GKD586/7	46,197	K1	4498	484	94.9	59.421	460V	○◆
	1200	586/7Z	40012ES3GKD580Z	46,197	K1	4548	484	94.9	64.949	460V	○★
450	1800	586/7	45018ES3GKD586/7	42,191	K1	4388	496	95.0	59.421	460V	○◆
	1800	586/7Z	45018ES3GKD580Z	42,191	K1	4438	496	95.0	64.949	460V	○★
	1200	586/7	45012ES3GKD586/7	49,958	K1	4620	540	95.0	59.421	460V	○◆
	1200	586/7Z	45012ES3GKD580Z	49,958	K1	4670	540	95.0	64.949	460V	○★
500	1800	586/7	50018ES3GKD586/7	43,375	K1	4587	555	95.2	59.421	460V	○◆
	1800	586/7Z	50018ES3GKD580Z	43,375	K1	4637	555	95.2	64.949	460V	○★
	1200	586/7Z	50012ES3GKD580Z	53,026	K1	5115	660	95.0	64.949	460V	○★

- Electrical features on page B-14
- Mechanical features on page B-62

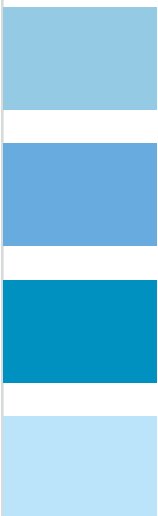
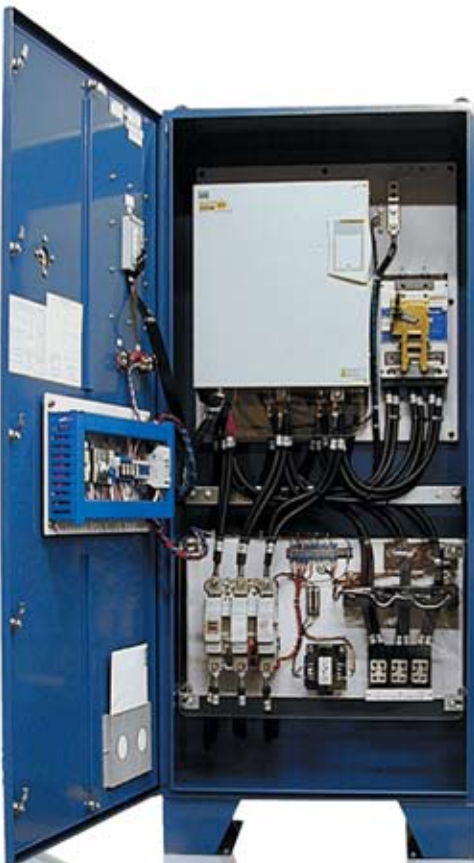
- = Roller Bearing
- ★ = Z-Frame; Bigger shaft diameter and bearings
- ◆ = Product may not be available from stock

Crusher Duty® Soft Starters TPH Series

The WEG TPH Series of Crusher Duty® soft starters are designed to conquer the most demanding AC motor starting applications. While surpassing the highest starting torque requirements, the protective NEMA 4/12 enclosure makes the TPH Crusher Duty® soft starters ideal for the harsh industrial environments, even in wash down locations. Including as standard an AC3 full HP rated bypass contactor and motor overload relay, emergency direct-on-line starting is available at the flip of a switch while still providing full motor protection. Power lugs make motor connections safe and easy. The WEG TPH starters are built to complement the ruggedness and reliability of WEG motors, providing a complete and cost effective AC motor starting and protection solution.

Standard Features

- Rated 500% for 60 seconds for Crusher Duty® applications.
- NEMA 4/12 WEG Blue enclosure. Suitable for dusty, wet or outdoor applications.
- Narrow design requires less space. Legs eliminate difficult wall mounting.
- Protective barriers over 460V and 120V terminals.
- Circuit breaker with door mounted operator provides built-in short circuit protection and power disconnect.
- Full HP rated bypass contactor (AC3) with thermal overload relay and emergency start switch inside the enclosure (Softstart-Off-Across the Line) can be used in the event of SSW failure.
- Full SSW protection during both start and bypass provides full protection from over/under current, supply and motor phase fault, phase unbalance, overtemp and over current.
- Keypad and full sized operator controls on cover with steel frame NEMA-4 window and cover over keypad. All parameter changes are through the cover-mounted keypad. Dust and water stay out of the enclosure. Monitoring of current, voltage, kVa and kW can be done from the outside.
- Terminations for remote start-stop furnished - no need to trace control circuit for additional power lines.
- 250VA 120V service receptacle - Power up meters, lights, and small tools without additional power lines.
- Modular multiple subpanel design. Ease of field modification or component replacement.



Crusher Duty® Soft Starters

TPH - NEMA 4/12 Enclosure

Motor Volts	Motor HP	Starter AMPS	Catalog Number	Application Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)	List Price	Multiplier Symbol
460V	INPUT POWER SUPPLY: THREE PHASE - 220V / 230V						
	100	120	TPH100KD0000	54 x 36 x 18	442	\$11,980	K2
	7.5	205	TPH150KD0000	54 x 36 x 18	470	\$13,907	K2
	10	255	TPH200KD0000	66 x 36 x 18	608	\$17,114	K2
	15	290	TPH250KD0000	66 x 36 x 18	628	\$18,120	K2
	20	410	TPH300KD0000	78 x 36 x 18	770	\$22,869	K2
	30	475	TPH400KD0000	78 x 36 x 18	855	\$27,965	K2
	50	580	TPH500KD0000	78 x 36 x 18	875	\$35,474	K2
60	670	TPH600KD0000	78 x 36 x 18	926	\$40,749	K2	

** Includes 6" Legs

Note: 1) For other technical data please refer to WEG product manual.
2) Contact WEG for 230V, 380V, 575V and any other non-standard voltage



WEG Electric Corporation
1327 Northbrook Parkway, Suite 490
Suwanee, GA 30024
Phone: 1-800-ASK-4WEG
web: www.weg.net

Please contact your authorized distributor:

CD0808