



THREE-PHASE

WEG Brake motors consist of an induction motor coupled to a disc brake, forming an integrated compact and robust unit. The unit is TEFC, and has the same performance characteristics of WEG TEFC range of motors. The brake is of sturdy construction with few moving parts which ensures long durability with a minimum of maintenance.

APPLICATIONS

Applications requiring quick stops and positive action at standstill

- Conveyors
- Gear reducers
- Machine tools
- Material handling equipment

STANDARD FEATURES

- Three-phase, II, IV, VI, VIII, pole, 60Hz
- Voltage: 208-230/460
- 143T up to 286T* cast iron frame
- Squirrel cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled - TEFC (IP55)
- V-ring slingers on drive endshield and Lip Seal on Non drive endshield
- Ball bearings
- NEMA dimensions
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C)
- NEMA ratings design 'B' (High Efficiency)
- Service factor: 1.15 (Standard Efficiency)
1.25 (High Efficiency)
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mount
- Stainless steel nameplate
- Paint: Enamel alkyd resin base
- Color: RAL 7022 – Dark Gray (St. Eff)
RAL 5007 – Blue (High Eff)
- NPT threaded terminal box
- Automatic drain plugs
- Slow, medium or rapid braking connectors
- 230V or 460V
- Manual brake release

OPTIONAL FEATURES

- Electric brake release
- Oil seal / Lip seal
- Special brake and motor voltages
- Specially designed shaft
- Space heaters
- Thermistor, Thermostats or RTD's (PT100)
- Additional terminal box
- Roller bearings on drive end
- Drip cover (canopy) for shaft down applications
- Stainless steel shaft
- Higher torque brake available
- Design C for High Efficiency
- Insulation class 'H'



APPROVED BY



E 104590

APPROVED BY



LR 38324



Note*: WEG can supply frames 324/6 "on request", after receiving load information: – Braking torque – Number of stops (braking) per hour.

Shoe-type brake motors are also available on special request, ask WEG for more information. All motors are tested according to IEEE 112 std. - method 'B' or C390 CSA

BRAKE MOTORS

TEFC



STANDARD EFFICIENCY – THREE-PHASE

HP	RPM	Frme	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Brake Rating Ft. Lb.	Notes
1	1800	143T	00118ES3EBM143T	970	B1	45	1.51	78.0	16.344	208-230/460V	12	
	1200	145T	00112ES3EBM145T	1,023	B1	52	1.81	74.5	16.344	208-230/460V	12	
	900	182T	00109ES3EBM182T	1,496	B1	97	2.24	72.5	18.917	208-230/460V	24	
1.5	3600	143T	00156ES3EBM143T	966	B1	45	2.04	78.0	16.344	208-230/460V	12	
	1800	145T	00158ES3EBM145T	1,011	B1	45	2.19	79.0	16.344	208-230/460V	12	
	1200	182T	00152ES3EBM182T	1,381	B1	80	2.64	78.0	18.917	208-230/460V	24	
2	900	184T	00159ES3EBM184T	1,558	B1	99	2.81	74.5	19.917	208-230/460V	24	
	3600	145T	00236ES3EBM145T	983	B1	48	2.73	78.5	16.344	208-230/460V	12	
	1800	145T	00218ES3EBM145T	1,019	B1	56	2.93	82.5	16.344	208-230/460V	12	
3	1200	184T	00212ES3EBM184T	1,423	B1	99	3.53	78.5	19.917	208-230/460V	24	
	900	213T	00209ES3EBM213T	1,861	B1	163	3.40	78.0	22.193	208-230/460V	44	
	3600	182T	00336ES3EBM182T	1,352	B1	99	4.04	81.5	18.917	208-230/460V	24	
5	1800	182T	00318ES3EBM182T	1,368	B1	84	4.13	81.5	18.917	208-230/460V	24	
	1200	213T	00312ES3EBM213T	1,841	B1	136	4.97	81.8	22.193	208-230/460V	44	
	900	215T	00309ES3EBM215T	2,033	B1	174	4.67	80.0	23.689	208-230/460V	59	
7.5	3600	184T	00536ES3EBM184T	1,457	B1	108	6.15	84.5	19.917	208-230/460V	24	
	1800	184T	00518ES3EBM184T	1,567	B1	117	6.50	85.0	19.917	208-230/460V	24	
	1200	215T	00512ES3EBM215T	2,038	B1	167	7.35	84.0	23.689	208-230/460V	59	
10	900	254T	00509ES3EBM254T	3,111	B1	295	7.85	84.5	27.976	208-230/460V	59	
	3600	213T	00736ES3EBM213T	1,916	B1	163	8.95	86.5	22.193	208-230/460V	44	
	1800	213T	00718ES3EBM213T	1,941	B1	170	9.70	87.0	22.193	208-230/460V	44	
15	1200	254T	00712ES3EBM254T	2,919	B1	264	9.60	86.5	27.976	208-230/460V	59	
	900	256T	00709ES3EBM256T	3,488	B1	339	11.3	86.0	29.945	208-230/460V	111	
	3600	215T	01036ES3EBM215T	2,008	B1	174	12.2	87.6	23.689	208-230/460V	59	
20	1800	215T	01018ES3EBM215T	2,166	B1	175	12.8	89.0	23.689	208-230/460V	59	
	1200	256T	01012ES3EBM256T	3,230	B1	295	12.8	87.4	29.945	208-230/460V	111	
	3600	254T	01536ES3EBM254T	2,857	B1	286	18.2	87.5	27.976	208-230/460V	59	
25	1800	254T	01518ES3EBM254T	3,181	B1	260	18.8	88.5	27.976	208-230/460V	59	
	3600	256T	02036ES3EBM256T	3,005	B1	295	24.1	89.0	29.945	208-230/460V	111	
30	1800	256T	02018ES3EBM256T	3,300	B1	304	25.2	90.2	29.945	208-230/460V	111	
	1800	284T	02518ES3EBM284T	4,806	B1	313	30.2	90.5	31.814	208-230/460V	87	
30	1800	286T	03018ES3EBM286T	4,814	B1	391	36.1	91.0	32.656	208-230/460V	87	

Note: From frames 143T up to 256T, motors are supplied with Lenze brakes

From frames 284/6T, motors are supplied with WEG brakes

- ELECTRICAL FEATURES ON PAGE B-21.
- MECHANICAL FEATURES ON PAGE B-72-B-74.

FRACTIONAL HP

GENERAL PURPOSE

NEMA PREMIUM EFFICIENCY

CRUSHER® DUTY

IEC TRU-METRIC™

PUMP MOTORS

DEFINITE PURPOSE

ADD-ON™ MODIFICATIONS

MOTOR TECHNICAL DATA

DRIVES & SOFT STARTERS

CONTROLS



BRAKE MOTORS TEFC



HIGH EFFICIENCY – THREE-PHASE

HP	RPM	Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Brake Rating Ft. Lb.	Notes
1	1800	143T	00118EP3EBM143T	1,378	B1	52	1.49	82.5	16.344	208-230/460V	12	
	1200	145T	00112EP3EBM145T	1,484	B1	52	1.70	80.0	16.344	208-230/460V	12	
	900	182T	00109EP3EBM182T	2,350	B1	115	2.31	74.0	18.917	208-230/460V	24	
1.5	3600	143T	00156EP3EBM143T	1,389	B1	49	1.99	82.5	16.344	208-230/460V	12	
	1800	145T	00158EP3EBM145T	1,435	B1	58	2.05	84.0	16.344	208-230/460V	12	
	1200	182T	00152EP3EBM182T	2,138	B1	88	2.38	85.5	18.917	208-230/460V	24	
2	900	184T	00159EP3EBM184T	2,479	B1	130	2.71	77.0	19.917	208-230/460V	24	
	3600	145T	00236EP3EBM145T	1,401	B1	52	2.60	84.0	16.344	208-230/460V	12	
	1800	145T	00218EP3EBM145T	1,447	B1	60	2.70	84.0	16.344	208-230/460V	12	
3	1200	184T	00212EP3EBM184T	2,233	B1	99	3.20	86.5	19.917	208-230/460V	24	
	900	213T	00209EP3EBM213T	2,977	B1	172	3.46	82.5	22.193	208-230/460V	44	
	3600	182T	00336EP3EBM182T	2,116	B1	117	3.59	85.5	18.917	208-230/460V	24	
5	1800	182T	00318EP3EBM182T	1,916	B1	108	3.90	87.5	18.917	208-230/460V	24	
	1200	213T	00312EP3EBM213T	2,982	B1	141	4.15	87.5	22.193	208-230/460V	44	
	900	215T	00309EP3EBM215T	3,234	B1	189	4.33	84.0	23.689	208-230/460V	59	
7.5	3600	184T	00536EP3EBM184T	2,190	B1	125	5.90	87.5	19.917	208-230/460V	24	
	1800	184T	00518EP3EBM184T	2,143	B1	113	6.48	87.5	19.917	208-230/460V	24	
	1200	215T	00512EP3EBM215T	3,218	B1	193	6.80	87.5	23.689	208-230/460V	59	
10	900	254T	00509EP3EBM254T	5,043	B1	284	7.99	85.5	27.976	208-230/460V	59	
	3600	213T	00736EP3EBM213T	2,860	B1	167	8.66	88.5	22.193	208-230/460V	44	
	1800	213T	00718EP3EBM213T	2,640	B1	167	9.53	89.5	22.193	208-230/460V	44	
15	1200	254T	00712EP3EBM254T	4,756	B1	288	9.53	89.5	27.976	208-230/460V	59	
	900	256T	00709EP3EBM256T	5,613	B1	328	11.2	86.5	29.945	208-230/460V	111	
	3600	215T	01036EP3EBM215T	3,304	B1	167	11.7	89.5	23.689	208-230/460V	59	
20	1800	215T	01018EP3EBM215T	3,184	B1	183	12.8	90.2	23.689	208-230/460V	59	
	1200	256T	01012EP3EBM256T	5,260	B1	331	13.4	89.5	29.945	208-230/460V	111	
	3600	254T	01536EP3EBM254T	4,560	B1	306	17.0	90.2	27.976	208-230/460V	59	
25	1800	254T	01518EP3EBM254T	4,852	B1	293	17.9	91.0	27.976	208-230/460V	59	
	3600	256T	02036EP3EBM256T	5,371	B1	339	23.3	90.2	29.945	208-230/460V	111	
	1800	256T	02018EP3EBM256T	5,404	B1	339	24.4	91.0	29.945	208-230/460V	111	
30	1800	284T	02518EP3EBM284T	6,248	B1	391	29.6	92.4	31.914	208-230/460V	87	
30	1800	286T	03018EP3EBM286T	6,259	B1	437	34.4	92.4	32.656	208-230/460V	87	

Note: From frames 143T up to 256T, motors are supplied with Lenze brakes.

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