



COOLING TOWER – NEMA PREMIUM EFFICIENCY THREE PHASE – TEFC

FRACTIONAL HP

GENERAL PURPOSE

NEMA PREMIUM EFFICIENCY

CRUSHER® DUTY

IEC TRU-METRIC™

PUMP MOTORS

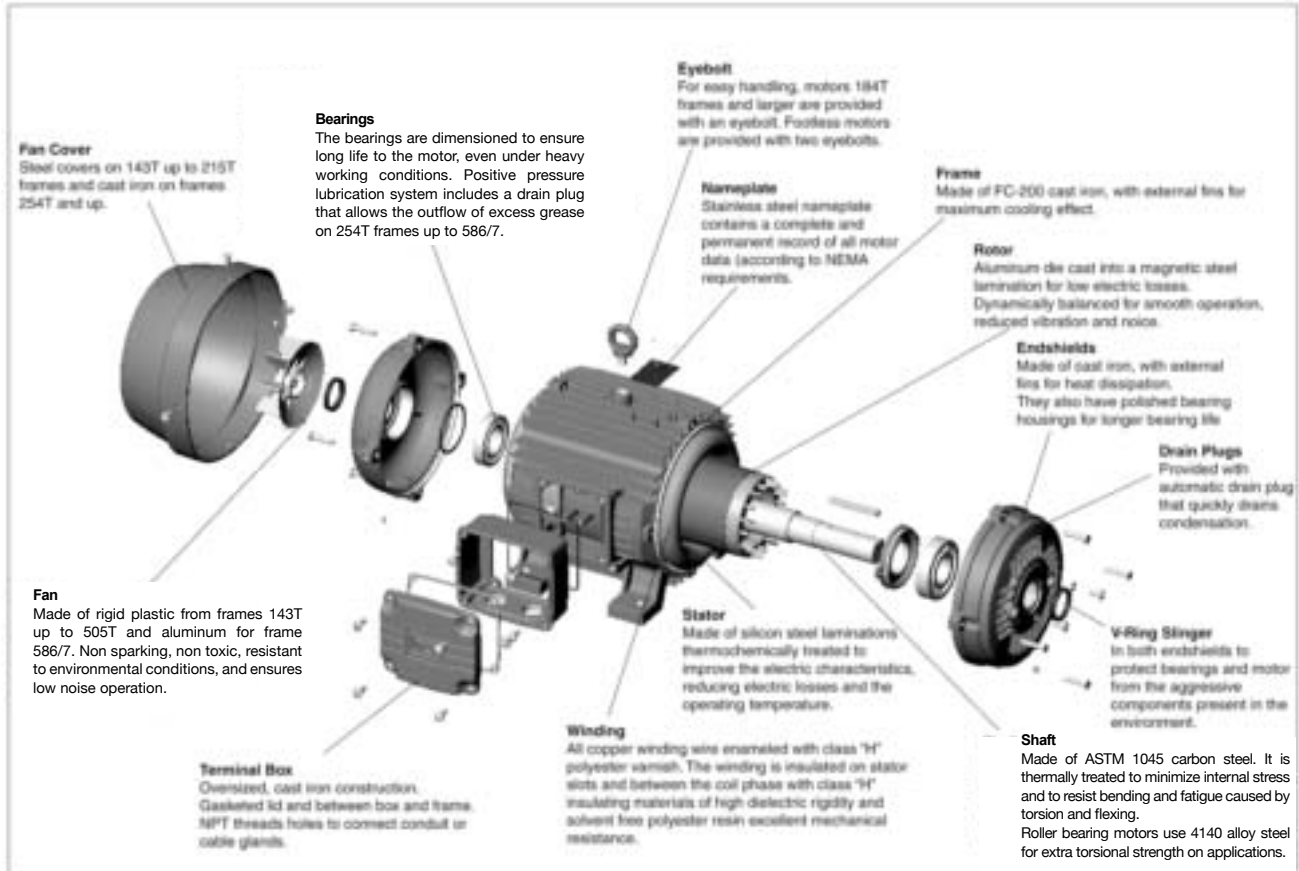
DEFINITE PURPOSE

ADD-ON™ MODIFICATIONS

MOTOR TECHNICAL DATA

DRIVES & SOFT STARTERS

CONTROLS



COOLING TOWER – NEMA PREMIUM EFFICIENCY THREE PHASE – TEFC



Meets CEE Energy Specification

TEFC – THREE PHASE – FOOT MOUNT

WEG'S Cooling Tower - NEMA Premium Efficiency motors meet or exceed all NEMA Premium and CEE requirements for energy efficiency. Cooling Tower – High Efficiency motors also meet or exceed CEE.

These TEFC motors are built according to NEMA specifications and designed for operation in 100% humidity and the most corrosive environments. The entire line is certified **Inverter Rated** for use with a VFD. They are designed to operate in either horizontal or shaft up position.

As with any other WEG motor, Cooling Tower motors are tested in accordance with IEEE 112, Method B, and their efficiency values are certified by UL Labs (CSA C390). Cooling Tower motors will meet will meet Design B torques, maintaining exceedingly high breakdown and locked rotor torque while providing the highest rated efficiency levels.



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APPLICATIONS

- Cooling Tower
- Evaporative Condensers
- Chemical plants
- Pulp and paper mills
- Pumps
- Fans
- Packaging equipment

STANDARD FEATURES

- Three-phase, IV, VI, IV/VIII and VI/XII pole, 60Hz, 60/50Hz (Single Speed Only)
- Voltage: 208-230/460V, 200V, 460V or 575V
- Totally Enclosed Fan Cooled – TEFC (IP55) water tight and dust tight enclosure
- Space Heaters
- Multiple Endbell Drains for shaft up, down or horizontal mounting
- Automatic drain plugs on T-Box
- Rubber Lead Separator (isolator) between T-Box and Frame
- Joint Seal
- Internally and Externally Epoxy painted
- V-ring slingers on both endshields
- External Slinger (Umbrella Seal)
- Double Sealed - 2RS Ball Bearings (up to 326T)
- 1045 Carbon Steel Shaft for frames up to 365T.
- 4140 steel shaft for motors 404T and above. (3600 RPM motors supplied with 1045)
- NEMA dimensions
- Double Impregnation and Bake
- Class 'F' insulation for all frames
- Class 'H' resin insulation system
- Temperature rise: Class 'B' (80°C)
- NEMA Design 'B'*
- Most ratings meet Design C Torque
- Service factor: 1.25 up to 100HP
1.15 from 125HP & up
- Continuous duty (S1)
- NPT threaded terminal box
- F2 mount
- Stainless steel nameplate AISI 316 with laser etching
- MGI Part 31 rating for use with VFD - 1000:1 Variable Torque speed range.

OPTIONAL FEATURES

- Special voltages
- Specially designed shaft
- Thermistor, Thermostats or RTD's (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- 'C' and 'D' flanges for all ratings
- Labyrinth taconite seal available on all ratings



Note:

* Design B torque rating on nameplate can be re-plated for Design C.
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.





COOLING TOWER – NEMA PREMIUM EFFICIENCY THREE PHASE – TEFC

MEETS CEE ENERGY SPECIFICATION



FOOT MOUNT

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
1	1800	143T	00118ET3PCT143T	647	L1	54	1.43	85.5	12.250	200V	
	1800	143T	00118ET3ECT143T	647	L1	54	1.43	85.5	12.250	208-230/460V	
	1200	145T	00112ET3PCT145T	728	L1	56	1.73	82.5	13.234	200V	
	1200	145T	00112ET3ECT145T	728	L1	56	1.73	82.5	13.234	208-230/460V	
1.5	1800	145T	00158ET3PCT145T	676	L1	56	2.00	86.5	13.234	200V	
	1800	145T	00158ET3ECT145T	676	L1	56	2.00	86.5	13.234	208-230/460V	
	1200	182T	00152ET3PCT182T	903	L1	79	2.39	87.5	14.860	200V	
2	1200	182T	00152ET3ECT182T	903	L1	79	2.39	87.5	14.860	208-230/460V	
	1800	145T	00218ET3PCT145T	752	L1	58	2.63	86.5	13.234	200V	
	1800	145T	00218ET3ECT145T	752	L1	58	2.63	86.5	13.234	208-230/460V	
	1200	184T	00212ET3PCT184T	981	L1	97	3.23	88.5	15.860	200V	
3	1200	184T	00212ET3ECT184T	981	L1	97	3.23	88.5	15.860	208-230/460V	
	1800	182T	00318ET3PCT182T	781	L1	99	3.90	89.5	14.860	200V	
	1800	182T	00318ET3ECT182T	781	L1	99	3.90	89.5	14.860	208-230/460V	
	1200	213T	00312ET3PCT213T	1,329	L1	134	4.41	89.5	18.021	200V	
5	1200	213T	00312ET3ECT213T	1,329	L1	134	4.41	89.5	18.021	208-230/460V	
	1800	184T	00518ET3PCT184T	894	L1	108	6.40	89.5	15.860	200V	
	1800	184T	00518ET3ECT184T	894	L1	108	6.40	89.5	15.860	208-230/460V	
	1200	215T	00512ET3PCT215T	1,517	L1	175	6.83	89.5	19.517	200V	
7.5	1200	215T	00512ET3ECT215T	1,517	L1	175	6.83	89.5	19.517	208-230/460V	
	1800	213T	00718ET3PCT213T	1,293	L1	165	9.29	91.7	18.021	200V	
	1800	213T	00718ET3ECT213T	1,293	L1	165	9.29	91.7	18.021	208-230/460V	
	1200	254T	00712ET3PCT254T	2,433	L1	282	9.73	91.0	23.213	200V	
10	1200	254T	00712ET3ECT254T	2,433	L1	282	9.73	91.0	23.213	208-230/460V	
	1800	215T	01018ET3PCT215T	1,475	L1	172	12.6	91.7	19.517	200V	
	1800	215T	01018ET3ECT215T	1,475	L1	172	12.6	91.7	19.517	208-230/460V	
	1200	256T	01012ET3PCT256T	2,751	L1	316	13.3	91.0	24.945	200V	
15	1200	256T	01012ET3ECT256T	2,751	L1	316	13.3	91.0	24.945	208-230/460V	
	1800	254T	01518ET3PCT254T	2,122	L1	291	18.0	92.4	23.213	200V	
	1800	254T	01518ET3ECT254T	2,122	L1	291	18.0	92.4	23.213	208-230/460V	
	1200	284T	01512ET3PCT284T	3,850	L1	360	17.3	91.7	26.433	200V	
1200	284T	01512ET3ECT284T	3,850	L1	360	17.3	91.7	26.433	208-230/460V		

Note: Check your nearest WEG office for availability of this line.

- ELECTRICAL FEATURES ON PAGE B-11.
- MECHANICAL FEATURES ON PAGE B-52.

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

COOLING TOWER – NEMA PREMIUM EFFICIENCY SINGLE SPEED – THREE PHASE – TEFC



MEETS CEE ENERGY SPECIFICATION



FOOT MOUNT

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
20	1800	256T	02018ET3PCT256T	2,549	L1	324	24.4	93.0	24.945	200V	
	1800	256T	02018ET3ECT256T	2,549	L1	324	24.4	93.0	24.945	208-230/460V	
	1200	286T	02012ET3PCT286T	4,635	L1	503	24.1	91.7	27.929	200V	
	1200	286T	02012ET3ECT286T	4,635	L1	503	24.1	91.7	27.929	208-230/460V	
25	1800	284T	02518ET3PCT284T	3,236	L1	481	29.5	93.6	26.433	200V	
	1800	284T	02518ET3ECT284T	3,236	L1	481	29.5	93.6	26.433	208-230/460V	
	1200	324T	02512ET3PCT324T	5,543	L1	605	30.5	93.0	29.620	200V	
	1200	324T	02512ET3ECT324T	5,543	L1	605	30.5	93.0	29.620	208-230/460V	
30	1800	286T	03018ET3PCT286T	3,738	L1	525	35.1	93.6	27.929	200V	
	1800	286T	03018ET3ECT286T	3,738	L1	525	35.1	93.6	27.929	208-230/460V	
	1200	326T	03012ET3PCT326T	6,064	L1	673	35.8	93.0	31.116	200V	
	1200	326T	03012ET3ECT326T	6,064	L1	673	35.8	93.0	31.116	208-230/460V	
40	1800	324T	04018ET3PCT324T	4,805	L1	640	48.3	94.1	29.620	200V	
	1800	324T	04018ET3ECT324T	4,805	L1	640	48.3	94.1	29.620	208-230/460V	
	1200	364T	04012ET3PCT364T	8,376	L1	1076	47.1	94.1	33.709	200V	
	1200	364T	04012ET3ECT364T	8,376	L1	1076	47.1	94.1	33.709	208-230/460V	
50	1800	326T	05018ET3PCT326T	5,865	L1	662	60.6	94.5	31.116	200V	
	1800	326T	05018ET3ECT326T	5,865	L1	662	60.6	94.5	31.116	208-230/460V	
	1200	365T	05012ET3PCT365T	9,625	L1	1127	58.0	94.1	33.709	200V	
	1200	365T	05012ET3ECT365T	9,625	L1	1127	58.0	94.1	33.709	208-230/460V	
60	1800	364T	06018ET3PCT364T	8,497	L1	1036	68.4	95.0	33.709	200V	
	1800	364T	06018ET3ECT364T	8,497	L1	1036	68.4	95.0	33.709	208-230/460V	
	1200	404T	06012ET3PCT404T	11,861	L1	1346	70.4	94.5	38.077	200V	
	1200	404T	06012ET3ECT404T	11,861	L1	1346	70.4	94.5	38.077	208-230/460V	
75	1800	365T	07518ET3PCT365T	9,924	L1	1047	82.3	95.4	33.709	200V	
	1800	365T	07518ET3ECT365T	9,924	L1	1047	82.3	95.4	33.709	208-230/460V	
	1200	405T	07512ET3PCT405T	13,626	L1	1478	87.0	94.5	38.077	200V	
	1200	405T	07512ET3ECT405T	13,626	L1	1478	87.0	94.5	38.077	208-230/460V	
100	1800	405T	10018ET3PCT405T	13,092	L1	1302	112	95.4	38.077	200V	
	1800	405T	10018ET3ECT405T	13,092	L1	1302	112	95.4	38.077	208-230/460V	
	1200	444T	10012ET3PCT444T	17,194	L1	2006	121	95.0	43.776	200V	
	1200	444T	10012ET3ECT444T	17,194	L1	2006	121	95.0	43.776	208-230/460V	

Note: Check your nearest WEG office for availability of this line.

- ELECTRICAL FEATURES ON PAGE B-11-B-12.
- MECHANICAL FEATURES ON PAGE B-52.

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



COOLING TOWER – HIGH EFFICIENCY – TEFC TWO SPEED (1 & 2 WINDINGS)

MEETS CEE ENERGY SPECIFICATION



THREE PHASE

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
2.0 / 0.50	1800 / 900	145T	00289EP3PCT145V	929	H1	56	6.40	82.5	13.234	200V	
	1800 / 900	182T	00389EP3PCT182V	1,369	H1	97	9.40	85.5	14.860	200V	
3.0 / 0.75	1800 / 900	182T	00389EP3QCT182V	1,369	H1	97	4.10	85.5	14.860	460V	
	1800 / 900	184T	00589EP3PCT184V	1,471	H1	102	15.40	86.5	15.860	200V	
5.0 / 1.25	1800 / 900	184T	00589EP3QCT184V	1,471	H1	102	6.70	86.5	15.860	460V	
	1800 / 900	215T	00589EP3PCT215V2	2,262	H1	148	15.20	86.5	19.517	200V	☐
	1800 / 900	215T	00589EP3QCT215V2	2,262	H1	148	6.60	86.5	19.517	460V	☐
	1800 / 900	213T	00789EP3PCT213V	1,672	H1	150	21.20	88.5	18.021	200V	
7.5 / 1.75	1800 / 900	213T	00789EP3QCT213V	1,672	H1	150	9.20	88.5	18.021	460V	
	1800 / 900	254T	00789EP3PCT254V2	2,808	H1	240	23.00	86.5	23.213	200V	☐
	1800 / 900	254T	00789EP3QCT254V2	2,808	H1	240	10.00	86.5	23.213	460V	☐
	1800 / 900	215T	01089EP3PCT215V	1,891	H1	165	28.80	88.5	19.517	200V	
10 / 2.5	1800 / 900	215T	01089EP3QCT215V	1,891	H1	165	12.50	88.5	19.517	460V	
	1800 / 900	256T	01089EP3PCT256V2	3,052	H1	240	29.90	88.5	23.213	200V	☐
	1800 / 900	256T	01089EP3QCT256V2	3,052	H1	240	13.00	88.5	23.213	460V	☐
	1800 / 900	254T	01589EP3PCT254V	2,572	H1	266	43.70	89.5	23.213	200V	
15 / 3.75	1800 / 900	254T	01589EP3QCT254V	2,572	H1	266	19.00	89.5	23.213	460V	
	1800 / 900	284T	01589EP3PCT284V2	3,878	H1	291	43.00	88.5	24.945	200V	☐
	1800 / 900	284T	01589EP3QCT284V2	3,878	H1	291	18.70	88.5	24.945	460V	☐
	1800 / 900	256T	02089EP3PCT256V	2,923	H1	313	60.00	90.2	24.945	200V	
20 / 5	1800 / 900	256T	02089EP3QCT256V	2,923	H1	313	26.10	90.2	24.945	460V	
	1800 / 900	286T	02089EP3PCT286V2	4,827	H1	371	57.30	90.2	27.929	200V	☐
	1800 / 900	286T	02089EP3QCT286V2	4,827	H1	371	24.90	90.2	27.929	460V	☐

Note: Check your nearest WEG office for availability of this line.

- MECHANICAL FEATURES ON PAGE B-52.
- TO OBTAIN ELECTRICAL FEATURES FOR THIS ITEM, PLEASE CONTACT YOUR SALES REPRESENTATIVE.

☐ = Double Winding

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COOLING TORR - HIGH EFFICIENCY (EFC TO SPEED WINDINGS)



MEETS CEE ENERGY SPECIFICATION



THREE PHASE

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
25 / 6.25	1800 / 900	286T	02589EP3PCT286V	4,199	H1	437	72.8	91.7	26.433	200V	
	1800 / 900	286T	02589EP3QCT286V	4,199	H1	437	31.7	91.7	26.433	460V	
	1800 / 900	324T	02589EP3PCT324V2	5,826	H1	477	72.9	91.0	27.929	200V	☼
	1800 / 900	324T	02589EP3QCT324V2	5,826	H1	477	31.7	91.0	27.929	460V	☼
30 / 7.5	1800 / 900	324T	03089EP3PCT324V	4,725	H1	481	85.4	91.7	29.620	200V	
	1800 / 900	324T	03089EP3QCT324V	4,725	H1	481	37.1	91.7	29.620	460V	
	1800 / 900	326T	03089EP3PCT326V2	6,995	H1	545	86.0	91.7	29.620	200V	☼
	1800 / 900	326T	03089EP3QCT326V2	6,995	H1	545	37.4	91.7	29.620	460V	☼
40 / 10	1800 / 900	326T	04089EP3PCT326V	5,464	H1	2543	116	92.4	31.116	200V	
	1800 / 900	326T	04089EP3QCT326V	5,464	H1	2543	50.4	92.4	31.116	460V	
	1800 / 900	364/5T	04089EP3PCT364V2	8,720	H1	640	112	91.0	31.116	200V	☼
	1800 / 900	364/5T	04089EP3QCT364V2	8,720	H1	640	48.5	91.0	31.116	460V	☼
50 / 12.5	1800 / 900	364/5T	05089EP3PCT364V	7,526	H1	640	136	92.4	33.709	200V	
	1800 / 900	364/5T	05089EP3QCT364V	7,526	H1	640	59.1	92.4	33.709	460V	
	1800 / 900	364/5T	05089EP3PCT365V2	11,093	H1	1015	135	91.7	33.709	200V	☼
	1800 / 900	364/5T	05089EP3QCT365V2	11,093	H1	1015	58.5	91.7	33.709	460V	☼
60 / 15	1800 / 900	364/5T	06089EP3PCT365V	11,068	H1	963	162	93.0	33.709	200V	
	1800 / 900	364/5T	06089EP3QCT365V	11,068	H1	963	70.4	93.0	33.709	460V	
75 / 18.75	1800 / 900	404/5T	07589EP3PCT404V	14,226	H1	1010	197	93.0	38.077	200V	
	1800 / 900	404/5T	07589EP3QCT404V	14,226	H1	1010	85.7	93.0	38.077	460V	
100 / 25	1800 / 900	444/5T	10089EP3PCT444V	16,398	H1	1273	274	94.1	43.776	200V	
	1800 / 900	444/5T	10089EP3QCT444V	16,398	H1	1273	119	94.1	43.776	460V	

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