

Definite Purpose Series

Totally Enclosed Fan Cooled & Totally Enclosed Air Over

EQP Global[®] Cooling Tower Motors

The Cooling Tower motor features multiple enhancements specifically designed for cooling tower applications in wet and humid environments. Built with an IP56-rated enclosure and coated with corrosion-resistant Severe Duty epoxy paint system, the motor can withstand the most severe operating conditions with 100% humidity. The Cooling Tower motor is available in TEFC and TEAO designs for all operating conditions.



Standard Features:

- API 661 Compliant
- Totally Enclosed Fan Cooled or Totally Enclosed Air Over
- Severe Duty
- NEMA Premium[®] Efficiency
- 60 Hz: 230/460 or 575 V
- 50 Hz: 190/380 V
- Three-Phase
- Dual-Frequency 50/60 Hz Design
- Class F Insulation; Inverter Duty, Exceeds NEMA MG1 Part 31
- IP56 Protection
- Cast Iron Frame, Bearing Brackets & Conduit Box
- Multi-Mount Capabilities on All Frames (See Appendix B)
- Epoxy Finished Paint
- Multiple Drain Provisions for Horizontal & Vertical Mounting
- See Appendix C for ASD and Division 2 Capabilities
- Non-NAFTA Qualified

Applications:

- Blowers
- Fans
- Cooling Tower
- Heat Exchangers
- Evaporative Condensers
- Pumps



ODP General Purpose

TEFC General Purpose

Explosion Proof

IEC

Definite Purpose

LV Mods. (Stock & Prod.)

MV General Purpose Open

MV Gen. Purp. Enclosed

MV Modifications

Totally Enclosed Fan Cooled & Totally Enclosed Air Over

EQP Global® Cooling Tower

NEMA Premium® Efficiency



3 THREE YEAR WARRANTY

The Cooling Tower motor features multiple enhancements specifically designed for cooling tower applications in wet and humid environments. Built with an IP56-rated enclosure and coated with corrosion-resistant Severe Duty epoxy paint system, the motor can withstand the most severe operating conditions with 100% humidity. The Cooling Tower motor is available in TEFC and TEAO designs for all operating conditions.



Product Scope:

Horsepower: 0.75 to 75 HP

Speed

(60 Hz)* 1800 or 1200 RPM

(50 Hz)*: 1500 or 1000 RPM

Volt

(60 Hz)* 230/460 or 575 V

(50 Hz)*: 190/380 V

Enclosure: Totally Enclosed Fan Cooled or Totally Enclosed Air Over

Frame Size: 143T through 365T

Construction: Cast Iron Frame, Bearing Brackets & Conduit Box

Insulation: Class F Inverter Duty, Exceeds NEMA MG1 Part 31 (Voltage Withstand Capability of 2000 V in 0.1 μs)

Environment: Severe Duty, Suitable for Use in Class I Division 2 Hazardous Locations

*50/60 Hz Listed on Nameplate for 230/460 Designs

HP	Speed (RPM)	Volts	Frame	Weight (lbs.)	Model Number	FL Amps	Nominal FL EFF	Notes	Discount Symbol
TEFC									
0.75	1200	230/460	143T	60	3/46SDGR41A-P	2.8/1.4	80.0	1, 9, 15, 18	MTPFCT
0.75	1200	575	143T	60	3/46SDGC41A-P	.9	81.5	1, 15, 18	MTPFCT
1	1800	230/460	143T	58	0014SDGR41A-P	3.4/1.7	85.5	1, 9, 15, 18	MTPFCT
1	1800	575	143T	58	0014SDGC41A-P	1.2	85.5	1, 15, 18	MTPFCT
1	1200	230/460	145T	62	0016SDGR41A-P	3.6/1.8	82.5	1, 9, 15, 18	MTPFCT
1	1200	575	145T	62	0016SDGC41A-P	1.5	82.5	1, 15, 18	MTPFCT
1.5	1800	230/460	145T	60	Y154SDGR41A-P	4.8/2.4	86.5	1, 9, 15, 18	MTPFCT
1.5	1800	575	145T	59	Y154SDGC41A-P	1.9	86.5	1, 15, 18	MTPFCT
1.5	1200	230/460	182T	99	Y156SDGR41A-P	5.0/2.5	87.5	1, 9, 15, 18	MTPFCT
1.5	1200	575	182T	99	Y156SDGC41A-P	2.0	87.5	1, 15, 18	MTPFCT
2	1800	230/460	145T	62	0024SDGR41A-P	6.0/3.0	86.5	1, 9, 15, 18	MTPFCT
2	1800	575	145T	62	0024SDGC41A-P	2.4	86.5	1, 15, 18	MTPFCT
2	1200	230/460	184T	110	0026SDGR41A-P	6.8/3.4	88.5	1, 9, 15, 18	MTPFCT
2	1200	575	184T	110	0026SDGC41A-P	2.7	88.5	1, 15, 18	MTPFCT
3	1800	230/460	182T	99	0034SDGR41A-P	8.0/4.0	89.5	1, 9, 15, 18	MTPFCT
3	1800	575	182T	99	0034SDGC41A-P	3.2	89.5	1, 15, 18	MTPFCT
3	1200	230/460	213T	163	0036SDGR41A-P	8.8/4.4	89.5	1, 9, 15, 18	MTPFCT
3	1200	575	213T	168	0036SDGC41A-P	3.5	89.5	1, 15, 18	MTPFCT
5	1800	230/460	184T	110	0054SDGR41A-P	13.0/6.5	89.5	1, 9, 15, 18	MTPFCT
5	1800	575	184T	110	0054SDGC41A-P	5.1	89.5	1, 15, 18	MTPFCT
5	1200	230/460	215T	176	0056SDGR41A-P	13.8/6.9	89.5	1, 9, 15, 18	MTPFCT
5	1200	575	215T	179	0056SDGC41A-P	5.5	89.5	1, 15, 18	MTPFCT

Totally Enclosed Fan Cooled & Totally Enclosed Air Over EQP Global® Cooling Tower NEMA Premium® Efficiency



ODP General Purpose

TEFC General Purpose

Explosion Proof

IEC

Definite Purpose

LV Mods. (Stock & Prod.)

MV General Purpose Open

MV Gen. Purp. Enclosed

MV Modifications

HP	Speed (RPM)	Volts	Frame	Weight (lbs.)	Model Number	FL Amps	Nominal FL EFF	Notes	Discount Symbol
7.5	1800	230/460	213T	186	Y754SDGR41A-P	19.6/9.8	91.7	1, 9, 15, 18	MTPFCT
7.5	1800	575	213T	179	Y754SDGC41A-P	7.7	91.7	1, 15, 18	MTPFCT
7.5	1200	230/460	254T	281	Y756SDGR41A-P	20.4/10.2	91.0	1, 9, 15, 18	MTPFCT
7.5	1200	575	254T	274	Y756SDGC41A-P	8.2	91.0	1, 15, 18	MTPFCT
10	1800	230/460	215T	203	0104SDGR41A-P	26/13	91.7	1, 9, 15, 18	MTPFCT
10	1800	575	215T	203	0104SDGC41A-P	10.1	91.7	1, 15, 18	MTPFCT
10	1200	230/460	256T	292	0106SDGR41A-P	26.8/13.4	91.0	1, 9, 15, 18	MTPFCT
10	1200	575	256T	293	0106SDGC41A-P	10.8	91.0	1, 15, 18	MTPFCT
15	1800	230/460	254T	315	0154SDGR41A-P	38/19	92.4	1, 9, 15, 18	MTPFCT
15	1800	575	254T	317	0154SDGC41A-P	15.2	92.4	1, 15, 18	MTPFCT
15	1200	230/460	284T	443	0156SDGR41A-P	39.2/19.6	91.7	1, 9, 15, 18	MTPFCT
15	1200	575	284T	441	0156SDGC41A-P	15.8	91.7	1, 15, 18	MTPFCT
20	1800	230/460	256T	355	0204SDGR41A-P	50/25	93.0	1, 9, 15, 18	MTPFCT
20	1800	575	256T	353	0204SDGC41A-P	20	93.0	1, 15, 18	MTPFCT
20	1200	230/460	286T	478	0206SDGR41A-P	50.8/25.4	91.7	1, 9, 15, 18	MTPFCT
20	1200	575	286T	478	0206SDGC41A-P	20	91.7	1, 15, 18	MTPFCT
25	1800	230/460	284T	492	0254SDGR41A-P	61/30.5	93.6	1, 9, 15, 18	MTPFCT
25	1800	575	284T	492	0254SDGC41A-P	24	93.6	1, 15, 18	MTPFCT
25	1200	230/460	324T	627	0256SDGR41A-P	62.4/31.2	93.0	1, 9, 15, 18	MTPFCT
25	1200	575	324T	615	0256SDGC41A-P	25	93.0	1, 15, 18	MTPFCT
30	1800	230/460	286T	531	0304SDGR41A-P	72.0/36	93.6	1, 9, 15, 18	MTPFCT
30	1800	575	286T	505	0304SDGC41A-P	29	93.6	1, 15, 18	MTPFCT
30	1200	230/460	326T	638	0306SDGR41A-P	74.4/37.2	93.0	1, 9, 15, 18	MTPFCT
30	1200	575	326T	631	0306SDGC41A-P	30	93.0	1, 15, 18	MTPFCT
40	1800	230/460	324T	669	0404SDGR41A-P	96/48	94.1	1, 9, 15, 18	MTPFCT
40	1800	575	324T	666	0404SDGC41A-P	38	94.1	1, 15, 18	MTPFCT
40	1200	230/460	364T	811	0406SDGR41A-P	96/48	94.1	1, 9, 15, 18	MTPFCT
40	1200	575	364T	802	0406SDGC41A-P	38	94.1	1, 15, 18	MTPFCT
50	1800	230/460	326T	715	0504SDGR41A-P	120/60	94.5	1, 9, 15, 18	MTPFCT
50	1800	575	326T	716	0504SDGC41A-P	48	94.5	1, 15, 18	MTPFCT
50	1200	230/460	365T	834	0506SDGR41A-P	120/60	94.1	1, 9, 15, 18	MTPFCT
50	1200	575	365T	833	0506SDGC41A-P	48	94.1	1, 15, 18	MTPFCT
60	1800	230/460	364T	880	0604SDGR41A-P	138/69	95.0	1, 9, 15, 18	MTPFCT
60	1800	575	364T	895	0604SDGC41A-P	55	95.0	1, 15, 18	MTPFCT
75	1800	230/460	365T	961	0754SDGR41A-P	172/86	95.4	1, 9, 15, 18	MTPFCT
75	1800	575	365T	979	0754SDGC41A-P	69	95.4	1, 15, 18	MTPFCT

TEAO

0.75	1200	230/460	143T	60	3/46FAGR41A-P	2.8/1.4	80.0	1, 9, 15, 18	MTPFCT
0.75	1200	575	143T	60	3/46FAGC41A-P	.9	81.5	1, 15, 18	MTPFCT
1	1800	230/460	143T	58	0014FAGR41A-P	3.4/1.7	85.5	1, 9, 15, 18	MTPFCT
1	1800	575	143T	58	0014FAGC41A-P	1.2	85.5	1, 15, 18	MTPFCT
1	1200	230/460	145T	62	0016FAGR41A-P	3.6/1.8	82.5	1, 9, 15, 18	MTPFCT
1	1200	575	145T	62	0016FAGC41A-P	1.5	82.5	1, 15, 18	MTPFCT
1.5	1800	230/460	145T	60	Y154FAGR41A-P	4.8/2.4	86.5	1, 9, 15, 18	MTPFCT
1.5	1800	575	145T	59	Y154FAGC41A-P	1.9	86.5	1, 15, 18	MTPFCT
1.5	1200	230/460	182T	99	Y156FAGR41A-P	5.0/2.5	87.5	1, 9, 15, 18	MTPFCT
1.5	1200	575	182T	99	Y156FAGC41A-P	2.0	87.5	1, 15, 18	MTPFCT

ODP General Purpose

TEFC General Purpose

Explosion Proof

IEC

Definite Purpose

LV Mods. (Stock & Prod.)

MV General Purpose Open

MV Gen. Purp. Enclosed

MV Modifications

Totally Enclosed Fan Cooled & Totally Enclosed Air Over

EQP Global® Cooling Tower

NEMA Premium® Efficiency



HP	Speed (RPM)	Volts	Frame	Weight (lbs.)	Model Number	FL Amps	Nominal FL EFF	Notes	Discount Symbol
2	1800	230/460	145T	62	0024FAGR41A-P	6.0/3.0	86.5	1, 9, 15, 18	MTPFCT
2	1800	575	145T	62	0024FAGC41A-P	2.4	86.5	1, 15, 18	MTPFCT
2	1200	230/460	184T	110	0026FAGR41A-P	6.8/3.4	88.5	1, 9, 15, 18	MTPFCT
2	1200	575	184T	110	0026FAGC41A-P	3.2	89.5	1, 15, 18	MTPFCT
3	1800	230/460	182T	99	0034FAGR41A-P	8.0/4.0	89.5	1, 9, 15, 18	MTPFCT
3	1800	575	182T	99	0034FAGC41A-P	3.2	89.5	1, 15, 18	MTPFCT
3	1200	230/460	213T	163	0036FAGR41A-P	8.8/4.4	89.5	1, 9, 15, 18	MTPFCT
3	1200	575	213T	168	0036FAGC41A-P	3.5	89.5	1, 15, 18	MTPFCT
5	1800	230/460	184T	110	0054FAGR41A-P	13.0/6.5	89.5	1, 9, 15, 18	MTPFCT
5	1800	575	184T	110	0054FAGC41A-P	5.1	89.5	1, 15, 18	MTPFCT
5	1200	230/460	215T	176	0056FAGR41A-P	13.8/6.9	89.5	1, 9, 15, 18	MTPFCT
5	1200	575	215T	179	0056FAGC41A-P	5.5	89.5	1, 15, 18	MTPFCT
7.5	1800	230/460	213T	186	Y754FAGR41A-P	19.6/9.8	91.7	1, 9, 15, 18	MTPFCT
7.5	1800	575	213T	179	Y754FAGC41A-P	7.7	91.7	1, 15, 18	MTPFCT
7.5	1200	230/460	254T	281	Y756FAGR41A-P	20.4/10.2	91.0	1, 9, 15, 18	MTPFCT
7.5	1200	575	254T	274	Y756FAGC41A-P	8.2	91.0	1, 15, 18	MTPFCT
10	1800	230/460	215T	203	0104FAGR41A-P	26/13	91.7	1, 9, 15, 18	MTPFCT
10	1800	575	215T	203	0104FAGC41A-P	10.1	91.7	1, 15, 18	MTPFCT
10	1200	230/460	256T	292	0106FAGR41A-P	26.8/13.4	91.0	1, 9, 15, 18	MTPFCT
10	1200	575	256T	293	0106FAGC41A-P	10.8	91.0	1, 15, 18	MTPFCT
15	1800	230/460	254T	315	0154FAGR41A-P	38/19	92.4	1, 9, 15, 18	MTPFCT
15	1800	575	254T	317	0154FAGC41A-P	15.2	92.4	1, 15, 18	MTPFCT
15	1200	230/460	284T	443	0156FAGR41A-P	39.2/19.6	91.7	1, 9, 15, 18	MTPFCT
15	1200	575	284T	441	0156FAGC41A-P	15.8	91.7	1, 15, 18	MTPFCT
20	1800	230/460	256T	355	0204FAGR41A-P	50/25	93.0	1, 9, 15, 18	MTPFCT
20	1800	575	256T	353	0204FAGC41A-P	20	93.0	1, 15, 18	MTPFCT
20	1200	230/460	286T	478	0206FAGR41A-P	50.8/25.4	91.7	1, 9, 15, 18	MTPFCT
20	1200	575	286T	478	0206FAGC41A-P	20	91.7	1, 15, 18	MTPFCT
25	1800	230/460	284T	492	0254FAGR41A-P	61/30.5	93.6	1, 9, 15, 18	MTPFCT
25	1800	575	284T	492	0254FAGC41A-P	24	93.6	1, 15, 18	MTPFCT
25	1200	230/460	324T	627	0256FAGR41A-P	62.4/31.2	93.0	1, 9, 15, 18	MTPFCT
25	1200	575	324T	615	0256FAGC41A-P	25	93.0	1, 15, 18	MTPFCT
30	1800	230/460	286T	531	0304FAGR41A-P	72.8/36.4	93.6	1, 9, 15, 18	MTPFCT
30	1800	575	286T	505	0304FAGC41A-P	29	93.6	1, 15, 18	MTPFCT
30	1200	230/460	326T	638	0306FAGR41A-P	74.4/37.2	93.0	1, 9, 15, 18	MTPFCT
30	1200	575	326T	631	0306FAGC41A-P	30	93.0	1, 15, 18	MTPFCT
40	1800	230/460	324T	669	0404FAGR41A-P	96/48	94.1	1, 9, 15, 18	MTPFCT
40	1800	575	324T	666	0404FAGC41A-P	38	94.1	1, 15, 18	MTPFCT
40	1200	230/460	364T	811	0406FAGR41A-P	96/48	94.1	1, 9, 15, 18	MTPFCT
40	1200	575	364T	802	0406FAGC41A-P	38	94.1	1, 15, 18	MTPFCT
50	1800	230/460	326T	715	0504FAGR41A-P	120/60	94.5	1, 9, 15, 18	MTPFCT
50	1800	575	326T	716	0504FAGC41A-P	48	94.5	1, 15, 18	MTPFCT
50	1200	230/460	365T	834	0506FAGR41A-P	120/60	94.1	1, 9, 15, 18	MTPFCT
50	1200	575	365T	833	0506FAGC41A-P	48	94.1	1, 15, 18	MTPFCT
60	1800	230/460	364T	880	0604FAGR41A-P	138/69	95.0	1, 9, 15, 18	MTPFCT
60	1800	575	364T	895	0604FAGC41A-P	55	95.0	1, 15, 18	MTPFCT
75	1800	230/460	365T	961	0754FAGR41A-P	172/86	95.4	1, 9, 15, 18	MTPFCT
75	1800	575	365T	979	0754FAGC41A-P	69	95.4	1, 15, 18	MTPFCT