

World Motor Cooling Tower Duty Motors

Inverter Duty TEAO and TEFC Motors



Product Specifications

Phase: Three

Insulation: Class F Inverter Grade Insulation exceeding NEMA MG1 Part 31

Speed Range: 20:1 (3-60Hz) Variable Torque Speed Range and may be used across the line

Voltage: 230/460, 200, 575

Enclosure:
Totally Enclosed Air Over (TEAO)
Totally Enclosed Fan Cooled (TEFC)

Efficiency Level: NEMA Premium Efficient (IE3)

Product Overview and Options

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

- Nidec Motor Corporation's patented Inverter Grade[®] insulation
- Class F Insulation, 40°C Ambient
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings with Dolph protective treatment
- Cast Iron Frame
- Cast Iron Outlet Box
- Steel Fan Cover
- Double Sealed Bearings
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers with RTV sealant
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balanced to 0.08 in/sec

- NEMA^{®†} Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- CORRO-DUTY[®] Motor Paint and Rotor Paint
- Space Heater (115V) to reduce condensation and improve motor life
- Internal Aegis Shaft Grounding Ring (available on some stock ratings)



Enclosures

Totally Enclosed Air Over (TEAO) F1 Field Convertible Models

HP	RPM	Volts	Frame	Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inchBs)"	Ship Wt. (lbs)	NBMA Nom. Bff.	Full Load Amps	Notes
2	1200	230/460	184T	CVWG2V3B	\$1,744	F1, W6, W8	DS-3CTSW	1.15	13.6	130	88.5	6.2/3.1	SGR
3	1800	230/460	182T	CVWG3V2B	\$1,496	F1, W6, W8	DS-3CTSW	1.15	13.6	130	89.5	7.7/3.9	SGR
	1200	230/460	213T	CVWG3V3B	\$2,441	F1, W6, W8	DS-3CTSW	1.15	17.1	200	90.2	8.6/4.3	SGR
5	1800	200	184T	CVWG5V2H	\$1,544	F1, W6, W8	DS-3CTSW	1.15	13.6	130	89.5	14.5	SGR
	1800	230/460	184T	CVWG5V2B	\$1,544	F1, W6, W8	DS-3CTSW	1.15	13.6	130	89.5	12.7/6.3	SGR
	1200	230/460	215T	CVWG5V3B	\$2,527	F1, W6, W8	DS-3CTSW	1.15	17.1	200	90.2	14.2/7.1	SGR
7 1/2	1800	200	213T	CVWG7V2H	\$1,994	F1, W6, W8	DS-3CTSW	1.15	17.1	200	91.7	21.9	SGR
	1800	230/460	213T	CVWG5V2B	\$1,994	F1, W6, W8	DS-3CTSW	1.15	17.1	200	91.7	19.2/9.6	SGR
	1200	230/460	254T	CVWG7V3B	\$3,368	F1, W6, W8	DS-3CTSW	1.15	22.3	325	91.0	18.8/9.4	SGR
10	1800	200	215T	CVWG10V2H	\$2,279	F1, W6, W8	DS-3CTSW	1.15	17.1	200	91.7	29.3	SGR
	1800	230/460	215T	CVWG10V2B	\$2,279	F1, W6, W8	DS-3CTSW	1.15	17.1	200	91.7	25.7/12.8	SGR
	1200	230/460	256T	CVWG10V3B	\$3,896	F1, W6, W8	DS-3CTSW	1.15	22.3	325	91.7	25.1/12.5	SGR
15	1800	200	254T	CVWG15V2H	\$3,133	F1, W6, W8	DS-3CTSW	1.15	22.3	325	92.4	41	SGR
	1800	230/460	254T	CVWG15V2B	\$3,133	F1, W6, W8	DS-3CTSW	1.15	22.3	325	92.4	36/18	SGR
	1200	230/460	284T	CVWG15V3B	\$5,390	F1, W6, W8	DS-3CTSW	1.15	24.8	380	91.7	36/18.2	SGR
20	1800	200	256T	CVWG20V2H	\$3,514	F1, W6, W8	DS-3CTSW	1.15	22.3	325	93.0	54	SGR
	1800	230/460	256T	CVWG20V2B	\$3,514	F1, W6, W8	DS-3CTSW	1.15	22.3	325	93.0	47/23.7	SGR
	1200	230/460	286T	CVWG20V3B	\$6,094	F1, W6, W8	DS-3CTSW	1.15	24.8	410	91.7	48/24	SGR
25	1800	230/460	284T	CVWG25V2B	\$4,607	F1, W6, W8	DS-3CTSW	1.15	24.8	365	93.6	58/29.2	SGR
	1200	230/460	324T	CVWG25V3B	\$8,179	F1, W6, W8	DS-3CTSW	1.15	27.5	605	93.0	59/29.3	SGR
30	1800	230/460	286T	CVWG30V2B	\$4,836	F1, W6, W8	DS-3CTSW	1.15	24.8	410	93.6	69/34	SGR
	1200	230/460	326T	CVWG30V3B	\$8,602	F1, W6, W8	DS-3CTSW	1.15	27.5	605	93.0	70/35	SGR
40	1800	230/460	324T	CVWG40V2B	\$6,059	F1, W6, W8	DS-3CTSW	1.15	27.5	605	94.1	92/46	SGR
	1200	230/460	364T	CVWG40V3B	\$10,735	F1, W6, W8	DS-3CTSW	1.15	29.6	740	94.1	94/47	SGR
50	1800	230/460	326T	CVWG50V2B	\$6,973	F1, W6, W8	DS-3CTSW	1.15	27.5	605	94.5	112/56	SGR
	1200	230/460	365T	CVWG50V3B	\$12,424	F1, W6, W8	DS-3CTSW	1.15	29.6	910	94.1	117/59	SGR
60	1800	230/460	364T	CVWG60V2B	\$9,168	F1, W6, W8	DS-3CTSW	1.15	29.6	740	95.0	137/68	SGR
	1200	230/460	404T	CVWG60V3B	\$16,553	F1, W6, W8	DS-3CTSW	1.15	33.8	960	94.5	140/70	SGR
75	1800	230/460	365T	CVWG75V2B	\$10,540	F1, W6, W8	DS-3CTSW	1.15	29.6	910	95.4	170/85	SGR
	1200	230/460	405T	CVWG75V3B	\$19,090	F1, W6, W8	DS-3CTSW	1.15	33.8	990	94.5	178/89	SGR
100	1800	230/460	405T	CVWG100V2B	\$15,574	F1, W6, W8	DS-3CTSW	1.15	33.8	1000	95.4	229/115	SGR

Note SGR Shaft Grounding Ring

Totally Enclosed Air Over (TEAO) F2 Field Convertible Models

HP	RPM	Volts	Frame	Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inchBs)"	Ship Wt. (lbs)	NBMA Nom. Bff.	Full Load Amps	Notes
2	1200	230/460	184T	CVWG2V3B2	\$1,744	F2, W5, W7	DS-3CTSW	1.15	13.6	130	88.5	6.2/3.1	SGR
3	1800	230/460	182T	CVWG3V2B2	\$1,496	F2, W5, W7	DS-3CTSW	1.15	13.6	130	89.5	7.7/3.9	SGR
	1200	230/460	213T	CVWG3V3B2	\$2,441	F2, W5, W7	DS-3CTSW	1.15	17.1	200	90.2	8.6/4.3	SGR
5	1800	200	184T	CVWG5V2H2	\$1,544	F2, W5, W7	DS-3CTSW	1.15	13.6	130	89.5	14.5	SGR
	1800	230/460	184T	CVWG5V2B2	\$1,544	F2, W5, W7	DS-3CTSW	1.15	13.6	130	89.5	12.7/6.3	SGR
	1200	230/460	215T	CVWG5V3B2	\$2,527	F2, W5, W7	DS-3CTSW	1.15	17.1	200	90.2	14.2/7.1	SGR
7 1/2	1800	200	213T	CVWG7V2H2	\$1,994	F2, W5, W7	DS-3CTSW	1.15	17.1	200	91.7	21.9	SGR
	1800	230/460	213T	CVWG5V2B2	\$1,994	F2, W5, W7	DS-3CTSW	1.15	17.1	200	91.7	19.2/9.6	SGR
	1200	230/460	254T	CVWG7V3B2	\$3,368	F2, W5, W7	DS-3CTSW	1.15	22.3	325	91.0	18.8/9.4	SGR
10	1800	200	215T	CVWG10V2H2	\$2,279	F2, W5, W7	DS-3CTSW	1.15	17.1	200	91.7	29.3	SGR
	1800	230/460	215T	CVWG10V2B2	\$2,279	F2, W5, W7	DS-3CTSW	1.15	17.1	200	91.7	25.7/12.8	SGR
	1200	230/460	256T	CVWG10V3B2	\$3,896	F2, W5, W7	DS-3CTSW	1.15	22.3	325	91.7	25.1/12.5	SGR
15	1800	200	254T	CVWG15V2H2	\$3,133	F2, W5, W7	DS-3CTSW	1.15	22.3	325	92.4	41	SGR
	1800	230/460	254T	CVWG15V2B2	\$3,133	F2, W5, W7	DS-3CTSW	1.15	22.3	325	92.4	36/18	SGR
	1200	230/460	284T	CVWG15V3B2	\$5,390	F2, W5, W7	DS-3CTSW	1.15	24.8	380	91.7	36/18.2	SGR
20	1800	200	256T	CVWG20V2H2	\$3,514	F2, W5, W7	DS-3CTSW	1.15	22.3	325	93.0	54	SGR
	1800	230/460	256T	CVWG20V2B2	\$3,514	F2, W5, W7	DS-3CTSW	1.15	22.3	325	93.0	47/23.7	SGR
	1200	230/460	286T	CVWG20V3B2	\$6,094	F2, W5, W7	DS-3CTSW	1.15	24.8	410	91.7	48/24	SGR
25	1800	230/460	284T	CVWG25V2B2	\$4,607	F2, W5, W7	DS-3CTSW	1.15	24.8	365	93.6	58/29.2	SGR
	1200	230/460	324T	CVWG25V3B2	\$8,179	F2, W5, W7	DS-3CTSW	1.15	27.5	605	93.0	59/29.3	SGR
30	1800	230/460	286T	CVWG30V2B2	\$4,836	F2, W5, W7	DS-3CTSW	1.15	24.8	410	93.6	69/34	SGR
	1200	230/460	326T	CVWG30V3B2	\$8,602	F2, W5, W7	DS-3CTSW	1.15	27.5	605	93.0	70/35	SGR
40	1800	230/460	324T	CVWG40V2B2	\$6,059	F2, W5, W7	DS-3CTSW	1.15	27.5	605	94.1	92/46	SGR
	1200	230/460	364T	CVWG40V3B2	\$10,735	F2, W5, W7	DS-3CTSW	1.15	29.6	740	94.1	94/47	SGR
50	1800	230/460	326T	CVWG50V2B2	\$6,973	F2, W5, W7	DS-3CTSW	1.15	27.5	605	94.5	112/56	SGR
	1200	230/460	365T	CVWG50V3B2	\$12,424	F2, W5, W7	DS-3CTSW	1.15	29.6	910	94.1	117/59	SGR
60	1800	230/460	364T	CVWG60V2B2	\$9,168	F2, W5, W7	DS-3CTSW	1.15	29.6	740	95.0	137/68	SGR
	1200	230/460	404T	CVWG60V3B2	\$16,553	F2, W5, W7	DS-3CTSW	1.15	33.8	960	94.5	140/70	SGR
75	1800	230/460	365T	CVWG75V2B2	\$10,540	F2, W5, W7	DS-3CTSW	1.15	29.6	910	95.4	170/85	SGR
	1200	230/460	405T	CVWG75V3B2	\$19,090	F2, W5, W7	DS-3CTSW	1.15	33.8	990	94.5	178/89	SGR
100	1800	230/460	405T	CVWG100V2B2	\$15,574	F2, W5, W7	DS-3CTSW	1.15	33.8	1000	95.4	229/115	SGR

Note SGR Shaft Grounding Ring

Minimum Air Velocity Required for TEAO Models

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
2	1000	580
3	1000	600
5	1054	700
7.5	1023	650
10	975	600
15	1500	650
20	1700	850

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
25	1500	950
30	1600	1000
40	1700	1100
50	1800	1150
60	1800	1150
75	2000	1300
100	2000	1300

Totally Enclosed Fan Cooled (TEFC)

HP	RPM	Volts	Frame	New Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inches)"	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
2	1800	230/460	145T	CW2V2E2	\$698	F2	DS-3CTSW	1.15	13.5	80	86.5	5.3/2.7	
	1200	230/460	184T	CW2V3E2	\$1,290	F2	DS-3CTSW	1.15	16.3	110	88.5	6.2/3.1	
3	1800	200	182T	CW3V2H2	\$1,050	F2	DS-3CTSW	1.15	16.3	100	89.5	8.8	
	1800	230/460	182T	CW3V2E2	\$1,050	F2	DS-3CTSW	1.15	16.3	100	89.5	7.8/3.9	
	1800	230/460	182T	CWG3V2B2	\$1,375	F2	DS-3CTSW	1.15	16.3	110	89.5	7.8/3.9	SGR
	1800	575	182T	CW3V2G2	\$1,050	F2	DS-3CTSW	1.15	16.3	100	89.5	3.1	
	1200	230/460	213T	CW3V3E2	\$1,942	F2	DS-3CTSW	1.15	19.6	170	90.2	8.6/4.3	
5	1800	200	184T	CW5V2H2	\$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	14.5	
	1800	230/460	184T	CW5V2E2	\$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	12.7/6.3	
	1800	230/460	184T	CWG5V2B2	\$1,420	F2	DS-3CTSW	1.15	16.3	120	89.5	12.7/6.3	SGR
	1800	575	184T	CW5V2G2	\$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	5.1	
	1200	230/460	215T	CW5V3E2	\$2,026	F2	DS-3CTSW	1.15	19.6	180	90.2	14.2/7.1	
7 1/2	1800	200	213T	CW7V2H2	\$1,509	F2	DS-3CTSW	1.15	19.6	170	91.7	22	
	1800	230/460	213T	CW7V2E2	\$1,509	F2	DS-3CTSW	1.15	19.6	170	91.0	19.1/9.6	
	1800	230/460	213T	CWG7V2B2	\$1,834	F2	DS-3CTSW	1.15	19.6	170	91.7	19.1/9.6	SGR
	1800	575	213T	CW7V2G2	\$1,509	F2	DS-3CTSW	1.15	19.6	170	91.7	7.8	
	1200	230/460	254T	CW7V3E2	\$2,791	F2	DS-3CTSW	1.15	24.9	250	91.0	18.8/9.4	
10	1800	200	215T	CW10V2H2	\$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	29.3	
	1800	230/460	215T	CW10V2E2	\$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	25.7/12.8	
	1800	230/460	215T	CWG10V2B2	\$2,111	F2	DS-3CTSW	1.15	19.6	180	91.7	25.7/12.8	SGR
	1800	575	215T	CW10V2G2	\$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	10.3	
	1200	230/460	256T	CW10V3E2	\$3,304	F2	DS-3CTSW	1.15	24.9	280	91.7	24.9/12.4	
15	1800	200	254T	CW15V2H2	\$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	41	
	1800	230/460	254T	CW15V2E2	\$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	36/18	
	1800	230/460	254T	CWG15V2B2	\$2,913	F2	DS-3CTSW	1.15	24.9	285	92.4	36/18	SGR
	1800	575	254T	CW15V2G2	\$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	14.5	
20	1800	200	256T	CW20V2H2	\$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	55	
	1800	230/460	256T	CW20V2E2	\$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	47/23.7	
	1800	230/460	256T	CWG20V2B2	\$3,282	F2	DS-3CTSW	1.15	24.9	315	93	47/23.7	SGR
	1800	575	256T	CW20V2G2	\$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	18.9	
25	1800	200	284T	CW25V2H2	\$3,981	F2	DS-3CTSW	1.15	27.5	385	93.6	67	
	1800	230/460	284T	CW25V2E2	\$3,981	F2	DS-3CTSW	1.15	27.5	380	93.6	58/29.2	
	1800	230/460	284T	CWG25V2B2	\$4,346	F2	DS-3CTSW	1.15	27.5	375	93.6	58/29.2	SGR
	1800	575	284T	CW25V2G2	\$3,981	F2	DS-3CTSW	1.15	27.5	380	93.6	23.3	
30	1800	230/460	286T	CW30V2E2	\$4,203	F2	DS-3CTSW	1.15	27.5	410	93.6	70/35	
	1800	230/460	286T	CWG30V2B2	\$4,568	F2	DS-3CTSW	1.15	27.5	385	93.6	70/35	SGR
	1800	575	286T	CW30V2G2	\$4,203	F2	DS-3CTSW	1.15	27.5	410	93.6	28.1	
40	1800	230/460	324T	CW40V2E2	\$5,307	F2	DS-3CTSW	1.15	30.1	600	94.1	92/46	
	1800	230/460	324T	CWG40V2B2	\$5,685	F2	DS-3CTSW	1.15	30.1	515	94.1	92/46	SGR
	1800	575	324T	CW40V2G2	\$5,307	F2	DS-3CTSW	1.15	30.1	600	94.1	37	
50	1800	230/460	326T	CW50V2E2	\$6,193	F2	DS-3CTSW	1.15	30.1	625	94.5	112/56	
	1800	230/460	326T	CWG50V2B2	\$6,571	F2	DS-3CTSW	1.15	30.1	615	94.5	112/56	SGR
	1800	575	326T	CW50V2G2	\$6,193	F2	DS-3CTSW	1.15	30.1	625	94.5	45	
60	1800	230/460	364T	CW60V2E2	\$8,297	F2	DS-3CTSW	1.15	32.3	740	95.0	137/68	
	1800	230/460	364T	CWG60V2B2	\$8,717	F2	DS-3CTSW	1.15	32.3	715	95	137/68	SGR
	1800	575	364T	CW60V2G2	\$8,297	F2	DS-3CTSW	1.15	32.3	910	95.0	55	
75	1800	230/460	365T	CW75V2E2	\$9,628	F2	DS-3CTSW	1.15	32.3	910	95.4	170/85	

Note SGR Shaft Grounding Ring

ORDERING INFORMATION:




Options below available from Southaven and Rancho Cucamonga Distribution Centers ONLY

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

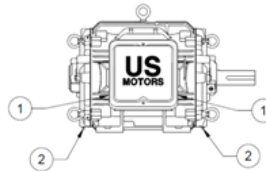
Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Thermistor	\$725	\$725	\$725	\$725	\$725	\$725	\$725	\$725	\$725
TEFC W5 or W8 Mounting	\$89	\$125	\$137	\$174	\$221	\$281	\$310	\$419	\$478

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

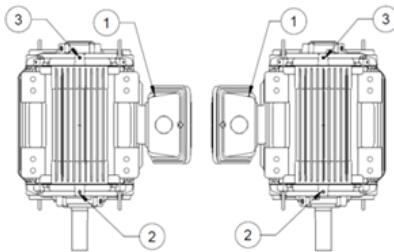
New Field Convertible TEAO F1 and F2 Base Models:

Item	Detailed view	Description
1		Plastic plug
2		Breather drain
3		Plug

F1 and F2 Base Models



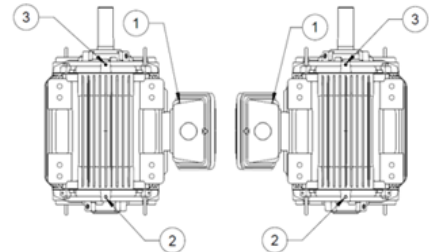
F1 Field Convertible to W6 & W7



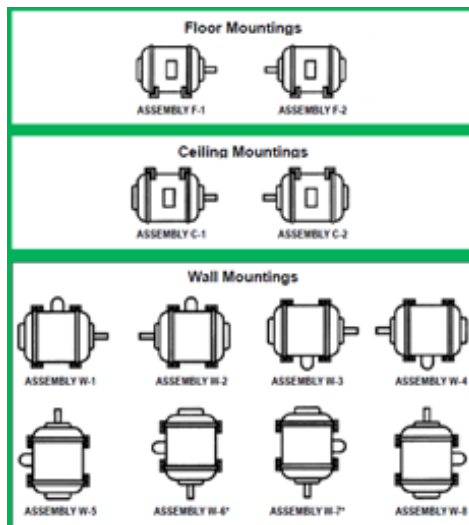
INSTRUCTIONS

WHEN INSTALLING UNIT, BE SURE THAT BREATHING DRAIN IS INSTALLED ON LOWER CONDENSATION DRAIN HOLES IN END-SHIELD. ALL UPPER DRAIN HOLES MUST BE PLUGGED ALL TIMES. STANDARD COOLING TOWER DUTY MOTORS WITH BEARING PART NUMBERS "#### - 2RS" HAVE DOUBLED SEALED BEARING THAT DO NOT REQUIRE RE-GREASING.

F2 Field Convertible to W5 & W8



When looking into the outlet box, remove the plastic plug on the right for shaft down or on the left for shaft up. Place the items 2 & 3 as it shows.



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