

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)



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

Totally Enclosed Air Over (TEAO)

HP	RPM	Volts	FramB	NBw Stock Cat#	List PricB	AssBmbly Position	Discount Symbol	SF	"C" Dim. (inchBs)"	Ship Wt. (lbs)	NBMA Nom. Bff.	Full Load Amps	NotBs
2	1200	230/460	184T	CVW2V3B6	\$1,454	W6	DS-3CTSW	1.15	13.6	130	88.5	6.2/3.1	
3	1800	230/460	182T	CVW3V2B6	\$1,206	W6	DS-3CTSW	1.15	13.6	130	89.5	7.7/3.9	
	1200	230/460	213T	CVW3V3B6	\$2,138	W6	DS-3CTSW	1.15	17.1	200	90.2	8.6/4.3	
5	1800	200	184T	CVW5V2H6	\$1,254	W6	DS-3CTSW	1.15	13.6	130	89.5	14.5	
	1800	230/460	184T	CVW5V2B6	\$1,254	W6	DS-3CTSW	1.15	13.6	130	89.5	12.7/6.3	
	1200	230/460	215T	CVW5V3B6	\$2,224	W6	DS-3CTSW	1.15	17.1	200	90.2	14.2/7.1	
7 1/2	1800	200	213T	CVW7V2H6	\$1,691	W6	DS-3CTSW	1.15	17.1	200	91.7	21.9	
	1800	230/460	213T	CVW7V2B6	\$1,691	W6	DS-3CTSW	1.15	17.1	200	91.7	19.2/9.6	
	1200	230/460	254T	CVW7V3B6	\$3,049	W6	DS-3CTSW	1.15	22.3	325	91.0	18.8/9.4	
10	1800	200	215T	CVW10V2H6	\$1,976	W6	DS-3CTSW	1.15	17.1	200	91.7	29.3	
	1800	230/460	215T	CVW10V2B6	\$1,976	W6	DS-3CTSW	1.15	17.1	200	91.7	25.7/12.8	
	1200	230/460	256T	CVW10V3B6	\$3,577	W6	DS-3CTSW	1.15	22.3	325	91.7	25.1/12.5	
15	1800	200	254T	CVW15V2H6	\$2,814	W6	DS-3CTSW	1.15	22.3	325	92.4	41	
	1800	230/460	254T	CVW15V2B6	\$2,814	W6	DS-3CTSW	1.15	22.3	325	92.4	36/18	
	1200	230/460	284T	CVW15V3B6	\$5,105	W6	DS-3CTSW	1.15	24.8	380	91.7	36/18.2	
20	1800	200	256T	CVW20V2H6	\$3,195	W6	DS-3CTSW	1.15	22.3	325	93.0	54	
	1800	230/460	256T	CVW20V2B6	\$3,195	W6	DS-3CTSW	1.15	22.3	325	93.0	47/23.7	
	1200	230/460	286T	CVW20V3B6	\$5,809	W6	DS-3CTSW	1.15	24.8	410	91.7	48/24	
25	1800	230/460	284T	CVW25V2B6	\$4,322	W6	DS-3CTSW	1.15	24.8	380	93.6	58/29.2	
	1200	230/460	324T	CVW25V3B6	\$7,867	W6	DS-3CTSW	1.15	27.5	605	93.0	59/29.3	
30	1800	230/460	286T	CVW30V2B6	\$4,551	W6	DS-3CTSW	1.15	24.8	410	93.6	69/34	
	1200	230/460	326T	CVW30V3B6	\$8,290	W6	DS-3CTSW	1.15	27.5	605	93.0	70/35	
40	1800	230/460	324T	CVW40V2B6	\$5,747	W6	DS-3CTSW	1.15	27.5	605	94.1	92/46	
	1200	230/460	364T	CVW40V3B6	\$10,422	W6	DS-3CTSW	1.15	29.6	740	94.1	94/47	
50	1800	230/460	326T	CVW50V2B6	\$6,661	W6	DS-3CTSW	1.15	27.5	605	94.5	112/56	
	1200	230/460	365T	CVW50V3B6	\$12,111	W6	DS-3CTSW	1.15	29.6	910	94.1	117/59	
60	1800	230/460	364T	CVW60V2B6	\$8,855	W6	DS-3CTSW	1.15	29.6	740	95.0	137/68	
	1200	230/460	404T	CVW60V3B6	\$16,229	W6	DS-3CTSW	1.15	33.8	960	94.5	140/70	
75	1800	230/460	365T	CVW75V2B6	\$10,227	W6	DS-3CTSW	1.15	29.6	910	95.4	170/85	
	1200	230/460	405T	CVW75V3B6	\$18,766	W6	DS-3CTSW	1.15	33.8	990	94.5	178/89	
100	1800	230/460	405T	CVW100V2B6	\$15,250	W6	DS-3CTSW	1.15	33.8	1000	95.4	229/115	

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

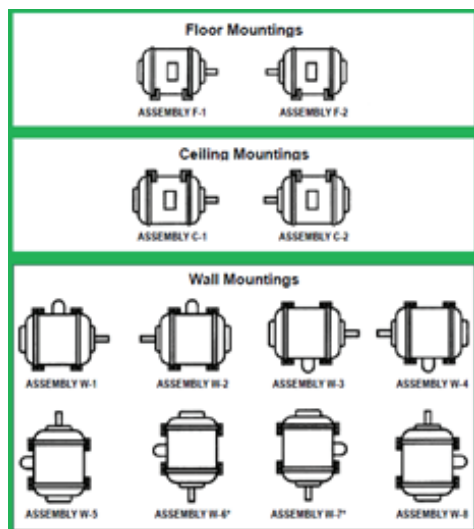
Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
25	1500	950
30	1600	1000
40	1700	1100
50	1800	1150
60	1800	1150
75	2000	1300
100	2000	1300

Option List Prices

Totally Enclosed Fan Cooled (TEFC)

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

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	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	
	1800	200	184T	CW5V2H2	\$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	14.5	
5	1800	230/460	184T	CW5V2E2	\$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	12.7/6.3	
	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	
	1800	200	213T	CW7V2H2	\$1,509	F2	DS-3CTSW	1.15	19.6	170	91.7	22	
7 1/2	1800	230/460	213T	CW7V2E2	\$1,509	F2	DS-3CTSW	1.15	19.6	170	91.0	19.1/9.6	
	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	
	1800	200	215T	CW10V2H2	\$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	29.3	
10	1800	230/460	215T	CW10V2E2	\$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	25.7/12.8	
	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	
	1800	200	254T	CW15V2H2	\$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	41	
15	1800	230/460	254T	CW15V2E2	\$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	36/18	
	1800	575	254T	CW15V2G2	\$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	14.5	
	1800	200	256T	CW20V2H2	\$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	55	
20	1800	230/460	256T	CW20V2E2	\$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	47/23.7	
	1800	575	256T	CW20V2G2	\$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	18.9	
	1800	200	284T	CW25V2H2	\$3,981	F2	DS-3CTSW	1.15	27.5	385	93.6	67	
25	1800	230/460	284T	CW25V2E2	\$3,981	F2	DS-3CTSW	1.15	27.5	380	93.6	58/29.2	
	1800	575	284T	CW25V2G2	\$3,981	F2	DS-3CTSW	1.15	27.5	380	93.6	23.3	
	1800	230/460	286T	CW30V2E2	\$4,203	F2	DS-3CTSW	1.15	27.5	410	93.6	70/35	
30	1800	575	286T	CW30V2G2	\$4,203	F2	DS-3CTSW	1.15	27.5	410	93.6	28.1	
	1800	230/460	324T	CW40V2E2	\$5,307	F2	DS-3CTSW	1.15	30.1	600	94.1	92/46	
40	1800	575	324T	CW40V2G2	\$5,307	F2	DS-3CTSW	1.15	30.1	600	94.1	37	
	1800	230/460	326T	CW50V2E2	\$6,193	F2	DS-3CTSW	1.15	30.1	625	94.5	112/56	
50	1800	575	326T	CW50V2G2	\$6,193	F2	DS-3CTSW	1.15	30.1	625	94.5	45	
	1800	230/460	364T	CW60V2E2	\$8,297	F2	DS-3CTSW	1.15	32.3	740	95.0	137/68	
60	1800	575	364T	CW60V2G2	\$8,297	F2	DS-3CTSW	1.15	32.3	910	95.0	55	
	1800	230/460	365T	CW75V2E2	\$9,628	F2	DS-3CTSW	1.15	32.3	910	95.4	170/85	



World Motor Cooling Tower Duty Three Phase, TEAO & TEFC, Internal Grounding Ring, Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque



APPLICATIONS:

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

FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA® MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame & Outlet Box
- Cast Iron Bearing Caps
- Double Sealed bearings
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec Inverter Compatible: Exceeds NEMA® MG-1 Part 31 (10:1 Variable Torque)
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Space Heater (115v)
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Internal 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

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
3	1800	230/460	182T	CWG3V2B2	\$1,375	F2	DS-3CTSW	1.15	16.3	110	89.5	7.8/3.9	SGR
5	1800	230/460	184T	CWG5V2B2	\$1,420	F2	DS-3CTSW	1.15	16.3	120	89.5	12.7/6.3	SGR
7 1/2	1800	230/460	213T	CWG7V2B2	\$1,834	F2	DS-3CTSW	1.15	19.6	170	91.7	19.1/9.6	SGR
10	1800	230/460	215T	CWG10V2B2	\$2,111	F2	DS-3CTSW	1.15	19.6	180	91.7	25.7/12.8	SGR
15	1800	230/460	254T	CWG15V2B2	\$2,913	F2	DS-3CTSW	1.15	24.9	285	92.4	36/18	SGR
20	1800	230/460	256T	CWG20V2B2	\$3,282	F2	DS-3CTSW	1.15	24.9	315	93	47/23.7	SGR
25	1800	230/460	284T	CWG25V2B2	\$4,346	F2	DS-3CTSW	1.15	27.5	375	93.6	58/29.2	SGR
30	1800	230/460	286T	CWG30V2B2	\$4,568	F2	DS-3CTSW	1.15	27.5	385	93.6	70/35	SGR
40	1800	230/460	324T	CWG40V2B2	\$5,685	F2	DS-3CTSW	1.15	30.1	515	94.1	92/46	SGR
50	1800	230/460	326T	CWG50V2B2	\$6,571	F2	DS-3CTSW	1.15	30.1	615	94.5	112/56	SGR
60	1800	230/460	364T	CWG60V2B2	\$8,717	F2	DS-3CTSW	1.15	32.3	715	95	137/68	SGR

Totally Enclosed Air Over (TEAO)

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
5	1800	230/460	184T	CVWG5V2B6	\$1,579	W6	DS-3CTSW	1.15	13.6	110	89.5	12.7/6.3	SGR
7 1/2	1800	230/460	213T	CVWG7V2B6	\$2,016	W6	DS-3CTSW	1.15	17.1	170	91.7	19.2/9.6	SGR
10	1800	230/460	215T	CVWG10V2B6	\$2,301	W6	DS-3CTSW	1.15	17.1	180	91.7	25.7/12.8	SGR
15	1800	230/460	254T	CVWG15V2B6	\$3,164	W6	DS-3CTSW	1.15	22.3	275	92.4	36/18	SGR
20	1800	230/460	256T	CVWG20V2B6	\$3,545	W6	DS-3CTSW	1.15	22.3	305	93	47/23.7	SGR
25	1800	230/460	284T	CVWG25V2B6	\$4,687	W6	DS-3CTSW	1.15	24.8	365	93.6	58/29.2	SGR
30	1800	230/460	286T	CVWG30V2B6	\$4,916	W6	DS-3CTSW	1.15	24.8	395	93.6	69/34	SGR
40	1800	230/460	324T	CVWG40V2B6	\$6,125	W6	DS-3CTSW	1.15	27.5	505	94.1	92/46	SGR
50	1800	230/460	326T	CVWG50V2B6	\$7,039	W6	DS-3CTSW	1.15	27.5	615	94.5	112/56	SGR
60	1800	230/460	364T	CVWG60V2B6	\$9,275	W6	DS-3CTSW	1.15	29.6	705	95	137/68	SGR
75	1800	230/460	365T	CVWG75V2B6	\$10,647	W6	DS-3CTSW	1.15	29.6	765	95	170/85	SGR

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Nidec

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