

# Stock Cooling Tower Duty Three Phase, TEAO & TEFC 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
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- 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
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- Refer to Page 73 for Minimum Air Velocity Requirements

## ORDERING INFORMATION:

Options below available from Southaven Distribution Center 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
Space Heater	\$210	\$250	\$250	\$320	\$380	\$420	\$420	\$480	\$480
Thermistor	\$725	\$725	\$725	\$725	\$725	\$725	\$725	\$725	\$725
Inpro Motor Grounding Seal	\$375	\$433	\$466	\$492	\$517	\$584	\$609	\$650	\$775
TEFC W5 or W8 Mounting	\$89	\$125	\$137	\$174	\$221	\$281	\$310	\$419	\$478

## 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
2	1200	230/460	184T	HVV2V3E6	\$1,454	W6	DS-3HTS	1.15	13.7	110	88.5	6.2/3.1	
3	1800	230/460	182T	HVV3V2E6	\$1,206	W6	DS-3HTS	1.15	13.7	100	89.5	7.9/3.9	
	1200	230/460	213T	HVV3V3E6	\$2,138	W6	DS-3HTS	1.15	17.0	160	90.2	8.7/4.4	
5	1800	200	184T	HVV5V2H6	\$1,254	W6	DS-3HTS	1.15	13.7	110	89.5	14.4	
	1800	230/460	184T	HVV5V2E6	\$1,254	W6	DS-3HTS	1.15	13.7	110	89.5	12.5/6.3	
	1800	230/460	184T	HVV5V2E8	\$1,254	W8	DS-3HTS	1.15	13.7	110	89.5	12.5/6.3	
	1200	230/460	215T	HVV5V3E6	\$2,224	W6	DS-3HTS	1.15	17.0	175	90.2	14/7	
7 1/2	1800	200	213T	HVV7V2H6	\$1,691	W6	DS-3HTS	1.15	17.0	160	91.7	21.1	
	1800	230/460	213T	HVV7V2E6	\$1,691	W6	DS-3HTS	1.15	17.0	160	91.7	18.5/9.2	
	1800	230/460	213T	HVV7V2E8	\$1,691	W8	DS-3HTS	1.15	17.0	160	91.7	18.5/9.2	
	1200	230/460	254T	HVV7V3E6	\$3,049	W6	DS-3HTS	1.15	22.1	300	91.0	18.6/9.3	
10	1800	200	215T	HVV10V2H6	\$1,976	W6	DS-3HTS	1.15	17.0	175	91.7	27.3	
	1800	230/460	215T	HVV10V2E6	\$1,976	W6	DS-3HTS	1.15	17.0	175	91.7	23.8/11.9	
	1800	230/460	215T	HVV10V2E8	\$1,976	W8	DS-3HTS	1.15	17.0	175	91.7	23.8/11.9	
	1200	230/460	256T	HVV10V3E6	\$3,577	W6	DS-3HTS	1.15	22.1	340	91.7	24.5/12.3	
15	1800	230/460	254T	HVV15V2E6	\$2,814	W6	DS-3HTS	1.15	22.1	300	92.4	37/18.4	
20	1800	200	256T	HVV20V2H6	\$3,195	W6	DS-3HTS	1.15	22.1	340	93.0	54	
	1800	230/460	256T	HVV20V2E6	\$3,195	W6	DS-3HTS	1.15	22.1	340	93.0	47/23.7	
	1200	230/460	286T	HVV20V3E6	\$5,809	W6	DS-3HTS	1.15	24.8	410	91.7	49/24.4	
25	1800	230/460	284T	HVV25V2E6	\$4,322	W6	DS-3HTS	1.15	24.8	380	93.6	60/29.8	
	1200	230/460	324T	HVV25V3E6	\$7,867	W6	DS-3HTS	1.15	27.3	600	93.0	59/29.5	
30	1800	230/460	286T	HVV30V2E6	\$4,551	W6	DS-3HTS	1.15	24.8	410	93.6	69/34	
	1200	230/460	326T	HVV30V3B6	\$8,290	W6	DS-3HTS	1.15	27.3	625	93.0	70/35	
40	1800	230/460	324T	HVV40V2B6	\$5,747	W6	DS-3HTS	1.15	27.3	600	94.1	92/46	
	1200	230/460	364T	HVV40V3E6	\$10,422	W6	DS-3HTS	1.15	29.4	740	94.1	93/46	

# Stock Cooling Tower Duty Three Phase, TEAO & TEFC Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)

## 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
50	1800	230/460	326T	HVV50V2B6	\$6,661	W6	DS-3HTS	1.15	27.3	625	94.5	112/56	
	1200	230/460	365T	HVV50V3E6	\$12,111	W6	DS-3HTS	1.15	29.4	910	94.1	116/58	
60	1800	230/460	364T	HVV60V2E6	\$8,855	W6	DS-3HTS	1.15	29.4	740	95.0	137/69	
	1200	230/460	404T	HVV60V3E6	\$16,229	W6	DS-3HTS	1.15	33.9	1160	94.5	141/70	
75	1800	230/460	365T	HVV75V2E6	\$10,227	W6	DS-3HTS	1.15	29.4	910	95.4	169/84	
	1200	230/460	405T	HVV75V3E6	\$18,766	W6	DS-3HTS	1.15	33.9	1180	94.5	174/87	
100	1800	230/460	405T	HVV100V2E6	\$15,250	W6	DS-3HTS	1.15	33.9	1180	95.4	225/113	

## 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	HW2V2E2	\$698	F2	DS-3HTS	1.15	13.0	70	86.5	5.7/2.8	
	1200	230/460	184T	HW2V3E2	\$1,290	F2	DS-3HTS	1.15	15.5	110	88.5	6.2/3.1	
3	1800	200	182T	HW3V2H2	\$1,050	F2	DS-3HTS	1.15	15.5	100	89.5	9.2	
	1800	230/460	182T	HW3V2E2	\$1,050	F2	DS-3HTS	1.15	15.5	100	89.5	7.9/3.9	
	1800	575	182T	HW3V2G2	\$1,050	F2	DS-3HTS	1.15	15.5	100	89.5	3.2	
	1200	230/460	213T	HW3V3E2	\$1,942	F2	DS-3HTS	1.15	19.2	160	90.2	8.7/4.4	
5	1800	200	184T	HW5V2H2	\$1,095	F2	DS-3HTS	1.15	15.5	110	89.5	14.4	
	1800	230/460	184T	HW5V2E2	\$1,095	F2	DS-3HTS	1.15	15.5	110	89.5	12.5/6.3	
	1800	575	184T	HW5V2G2	\$1,095	F2	DS-3HTS	1.15	15.5	110	89.5	5	
	1200	230/460	215T	HW5V3E2	\$2,026	F2	DS-3HTS	1.15	19.2	175	90.2	14/7	
7 1/2	1800	200	213T	HW7V2H2	\$1,509	F2	DS-3HTS	1.15	19.2	160	91.7	21.1	
	1800	575	213T	HW7V2G2	\$1,509	F2	DS-3HTS	1.15	19.2	160	91.7	7.5	
	1200	230/460	254T	HW7V3E2	\$2,791	F2	DS-3HTS	1.15	19.2	300	91.0	18.6/9.3	
	1200	230/460	254T	HW7V3E2	\$2,791	F2	DS-3HTS	1.15	25.3	300	91.0	18.6/9.3	
10	1800	575	215T	HW10V2G2	\$1,786	F2	DS-3HTS	1.15	19.2	175	91.7	9.6	
	1200	230/460	256T	HW10V3E2	\$3,304	F2	DS-3HTS	1.15	25.3	340	91.7	24.5/12.3	
15	1800	200	254T	HW15V2H2	\$2,563	F2	DS-3HTS	1.15	25.3	300	92.4	42	
	1800	230/460	254T	HW15V2E2	\$2,563	F2	DS-3HTS	1.15	25.3	300	92.4	37/18.4	
	1800	575	254T	HW15V2G2	\$2,563	F2	DS-3HTS	1.15	25.3	300	92.4	14.5	
20	1800	200	256T	HW20V2H2	\$2,932	F2	DS-3HTS	1.15	25.3	340	93.0	54	
	1800	230/460	256T	HW20V2E2	\$2,932	F2	DS-3HTS	1.15	25.3	340	93.0	47/23.7	
	1800	575	256T	HW20V2G2	\$2,932	F2	DS-3HTS	1.15	25.3	340	93.0	19	
25	1800	200	284T	HW25V2H2	\$3,981	F2	DS-3HTS	1.15	27.0	380	93.6	67	
	1800	230/460	284T	HW25V2E2	\$3,981	F2	DS-3HTS	1.15	27.0	380	93.6	60/29.8	
	1800	575	284T	HW25V2G2	\$3,981	F2	DS-3HTS	1.15	27.0	380	93.6	23.3	
30	1800	230/460	286T	HW30V2E2	\$4,203	F2	DS-3HTS	1.15	27.0	410	93.6	69/34	
	1800	575	286T	HW30V2G2	\$4,203	F2	DS-3HTS	1.15	27.0	410	93.6	27.6	
40	1800	230/460	324T	HW40V2E2	\$5,307	F2	DS-3HTS	1.15	30.6	600	94.1	92/46	
	1800	575	324T	HW40V2G2	\$5,307	F2	DS-3HTS	1.15	30.6	600	94.1	37	
50	1800	230/460	326T	HW50V2E2	\$6,193	F2	DS-3HTS	1.15	30.6	625	94.5	112/56	
60	1800	575	364T	HW60V2G2	\$8,297	F2	DS-3HTS	1.15	33.0	910	95.0	55	
75	1800	230/460	365T	HW75V2E2	\$9,628	F2	DS-3HTS	1.15	33.0	910	95.4	169/84	

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

GENERAL PURPOSE UNIMOUNT™  
GENERAL PURPOSE STEEL EDGE™  
GENERAL PURPOSE HOSTILE DUTY  
GENERAL PURPOSE CORRO-DUTY™  
GENERAL PURPOSE 84 PLUS™  
GENERAL PURPOSE OPEN DRIPPROOF™  
GENERAL PURPOSE HAZARDOUS LOCATION™  
GENERAL PURPOSE AUTOMOTIVE DUTY™  
COOLING TOWER DUTY™  
HAZARDOUS LOCATION™  
C-FACE MOTORS™  
VARIABLE SPEED MOTORS AND DRIVES™

## Stock Cooling Tower Duty Three Phase, TEAO & TEFC Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)

### 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

\*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

forecyte

POWERED BY **Nidec**

Asset Condition Monitoring Solution to visualize\* health and performance data  
Refer to Page 109