

# Three Phase Modifiable NEMA<sup>®†</sup> Horizontal Motors Totally Enclosed Fan Cooled (TEFC)



CTI

## World Motor - Hostile Duty, Inverter Duty, Premium Efficient - IE3 Variable Torque 20:1 (3-60 Hz) Speed Range Constant Torque 5:1 (12-60 Hz) Speed Range

- \* Inverter Grade<sup>®</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- \* IP54 Ingress Protection
- \* 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- \* Class F Insulation
- \* Special Balance (0.08 IPS)
- \* Cast Iron Frame and End Shields
- \* Corrosion Resistant Mill And Chemical Duty Paint
- \* Stainless Steel Nameplate And Zinc Plated Hardware
- \* Shaft Slinger On Pulley End For IP54 Protection

- \* Lifting Provisions
- \* Regreasable Bearings On 250 Frame And Up
- \* Class F Thermostats (One Per Phase)
- \* Internal Shaft Grounding Ring
- \* CORRO-DUTY<sup>®</sup> Available With Adder
- \* Air-Over (TEAO) Available With Deduct

HP	RPM @ 60 Hertz											
	3600		1800		1200		900		720		600	
	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List
0.25	143	\$590	143	\$530	143	\$676	145	\$966	—	—	—	—
0.33	143	\$590	143	\$530	143	\$676	145	\$966	—	—	—	—
0.5	143	\$590	143	\$530	143	\$676	145	\$966	—	—	—	—
0.75	143	\$590	143	\$530	143	\$676	145	\$966	—	—	—	—
1	143	\$590	143	\$530	145	\$676	182	\$966	213	\$1,165	215	\$1,514
1.5	143	\$590	145	\$566	182	\$761	184	\$1,179	213	\$1,422	254	\$1,867
2	145	\$613	145	\$622	184	\$868	213	\$1,202	215	\$1,640	256	\$2,090
3	182	\$712	182	\$679	213	\$1,081	215	\$1,676	254	\$2,242	284	\$2,801
5	184	\$844	184	\$774	215	\$1,395	254	\$2,184	256	\$2,779	286	\$3,676
7.5	213	\$1,099	213	\$1,055	254	\$1,873	256	\$2,847	284	\$3,759	324	\$4,803
10	215	\$1,281	215	\$1,313	256	\$2,226	284	\$3,316	324	\$4,700	326	\$5,921
15	254	\$1,803	254	\$1,757	284	\$2,941	286	\$4,339	326	\$5,209	364	\$6,772
20	256	\$2,235	256	\$2,186	286	\$3,616	324	\$5,243	364	\$6,294	365	\$8,182
25	284	\$2,658	284	\$2,571	324	\$4,619	326	\$6,060	365	\$8,181	405	\$10,635
30	286	\$3,188	286	\$3,053	326	\$5,254	364	\$6,775	405	\$9,146	405	\$11,890
40	324	\$3,758	324	\$3,644	364	\$5,821	365	\$8,441	405	\$11,395	445	\$14,814
50	326	\$5,036	326	\$4,524	365	\$7,239	404	\$10,497	445	\$14,171	445	\$18,422
60	364	\$6,476	364	\$6,330	404	\$8,517	405	\$11,498	445	\$15,522	447	\$20,179
75	365	\$8,339	365	\$7,728	405	\$10,133	444	\$13,679	447	\$18,467	—	—
100	405	\$11,178	405	\$10,133	444	\$13,603	445	\$18,365	—	—	—	—
125	444	\$13,997	444	\$13,146	445	\$16,895	447	\$22,808	—	—	—	—
150	445	\$17,743	445	\$15,831	447	\$19,320	—	—	—	—	—	—
200	447	\$24,249	447	\$20,503	449	\$25,529	—	—	—	—	—	—
250	449	\$29,682	449	\$26,366	—	—	—	—	—	—	—	—
300	449	\$35,486	449	\$30,461	—	—	—	—	—	—	—	—
350	—	—	449	\$33,210	—	—	—	—	—	—	—	—

\* 60Hz 3600, 1800, 1200 & 900 RPM Motors Comply With U.S. D.O.E.'s Efficiency Regulation 10 CFR Section 431 Subpart B – Electric Motors (See Appendix A2 & A3 For Nominal Efficiency Table)

DISCOUNT SYMBOL: DS-HDMW

† All marks shown within this document are properties of their respective owners.



# Three Phase Modifiable NEMA<sup>®†</sup> Horizontal Motors Totally Enclosed Fan Cooled (TEFC)



CTI

## Hostile Duty, Inverter Duty, Premium Efficient - IE3 Variable Torque 20:1 (3-60 Hz) Speed Range Constant Torque 5:1 (12-60 Hz) Speed Range

- \* Inverter Grade<sup>®</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- \* 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- \* Class F Insulation
- \* Special Balance
- \* Cast Iron Frame Construction (140: Rolled Steel)
- \* Cast Iron End Shields
- \* Corrosion Resistant Mill And Chemical Duty Paint
- \* Stainless Steel Nameplate And Zinc Plated Hardware

- \* Shaft Slinger On Pulley End For IP54 Protection
- \* Lifting Provisions On 180 Frame And Up
- \* Class F Thermostats (One Per Phase)
- \* Insulated Shaft ODE 400 Frame & Up
- \* CORRO-DUTY<sup>®</sup> Available With Adder
- \* Air-Over (TEAO) Available With Deduct
- \* Close Coupled Pump (CCP) Available With Adder
- \* Shaft Grounding Ring

HP	RPM @ 60 Hertz											
	3600		1800		1200		900		720		600	
	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List
0.25	143	\$660	143	\$573	143	\$779	145	\$1,206	—	—	—	—
0.33	143	\$660	143	\$573	143	\$779	145	\$1,206	—	—	—	—
0.5	143	\$660	143	\$573	143	\$779	145	\$1,206	—	—	—	—
0.75	143	\$660	143	\$573	143	\$779	145	\$1,206	—	—	—	—
1	143	\$660	143	\$573	145	\$779	182	\$1,206	213	\$1,629	215	\$2,053
1.5	143	\$660	145	\$635	182	\$864	184	\$1,339	213	\$1,807	254	\$2,278
2	145	\$784	145	\$696	184	\$961	213	\$1,490	215	\$2,012	256	\$2,536
3	182	\$882	182	\$780	213	\$1,191	215	\$1,847	254	\$2,493	284	\$3,143
5	184	\$1,106	184	\$906	215	\$1,705	254	\$2,644	256	\$3,569	286	\$4,499
7.5	213	\$1,371	213	\$1,240	254	\$2,276	256	\$3,527	284	\$4,762	324	\$6,002
10	215	\$1,607	215	\$1,497	256	\$2,749	284	\$4,247	324	\$5,733	326	\$7,227
15	254	\$2,299	254	\$2,068	284	\$3,831	286	\$5,679	326	\$7,666	364	\$9,663
20	256	\$2,846	256	\$2,548	286	\$4,640	324	\$6,721	364	\$9,073	365	\$11,436
25	284	\$3,491	284	\$3,058	324	\$5,521	326	\$7,961	365	\$10,748	405	\$13,547
30	286	\$4,094	286	\$3,566	326	\$6,515	364	\$9,166	405	\$12,373	405	\$15,596
40	324	\$5,290	324	\$4,656	364	\$8,775	365	\$11,354	405	\$15,328	445	\$19,320
50	326	\$6,807	326	\$5,717	365	\$10,109	404	\$14,602	445	\$19,712	445	\$24,846
60	364	\$9,086	364	\$8,312	404	\$11,909	405	\$16,850	445	\$22,747	447	\$28,671
75	365	\$11,411	365	\$10,572	405	\$14,042	444	\$18,675	447	\$25,212	—	—
100	405	\$15,290	405	\$13,028	444	\$19,226	445	\$26,393	—	—	—	—
125	444	\$19,027	444	\$16,217	445	\$21,991	447	\$28,813	—	—	—	—
150	445	\$23,415	445	\$19,249	447	\$25,259	—	—	—	—	—	—
200	447	\$29,591	447	\$23,452	—	—	—	—	—	—	—	—

\* 60Hz 3600, 1800, 1200 & 900 RPM Motors Comply With U.S. D.O.E.'s Efficiency Regulation 10 CFR Section 431 Subpart B – Electric Motors (See Appendix A2 & A3 For Nominal Efficiency Table)

DISCOUNT SYMBOL: DS-VFTM

† All marks shown within this document are properties of their respective owners.



# Three Phase Modifiable NEMA<sup>®†</sup> Horizontal Motors Totally Enclosed Fan Cooled (TEFC)



CTI

## Hostile Duty, Inverter Duty, Premium Efficient - IE3 Constant Torque 20:1 (3-60 Hz) Speed Range

- \* Inverter Grade<sup>®</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- \* Class F Insulation
- \* NEMA<sup>®†</sup> Design A
- \* Special Balance
- \* Cast Iron Frame Construction (140: Rolled Steel)
- \* Cast Iron End Shields
- \* Corrosion Resistant Mill And Chemical Duty Paint
- \* Stainless Steel Nameplate And Zinc Plated Hardware

- \* Shaft Slinger On Pulley End For IP54 Protection
- \* Lifting Provisions On 180 Frame And Up
- \* Class F Thermostats (One Per Phase)
- \* Insulated Shaft ODE 400 Frame & Up
- \* CORRO-DUTY<sup>®</sup> Available With Adder
- \* Air-Over (TEAO) Available With Deduct
- \* Close Coupled Pump (CCP) Available With Adder
- \* Shaft Grounding Ring

HP	RPM @ 60 Hertz											
	3600		1800		1200		900		720		600	
	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List
0.25	143	\$718	143	\$623	143	\$846	145	\$1,311	—	—	—	—
0.33	143	\$718	143	\$623	143	\$846	145	\$1,311	—	—	—	—
0.5	143	\$718	143	\$623	143	\$846	145	\$1,311	—	—	—	—
0.75	143	\$718	143	\$623	145	\$846	182	\$1,311	—	—	—	—
1	143	\$718	145	\$623	182	\$846	184	\$1,311	213	\$1,770	254	\$2,301
1.5	145	\$718	145	\$690	184	\$939	213	\$1,455	215	\$1,964	256	\$2,554
2	182	\$853	182	\$756	213	\$1,045	215	\$1,620	254	\$2,187	284	\$2,843
3	182	\$959	182	\$848	213	\$1,295	254	\$2,008	256	\$2,710	286	\$3,523
5	184	\$1,203	184	\$985	215	\$1,854	256	\$2,874	284	\$3,880	324	\$5,043
7.5	213	\$1,490	213	\$1,348	254	\$2,474	284	\$3,834	324	\$5,176	326	\$6,728
10	215	\$1,746	215	\$1,628	256	\$2,988	286	\$4,616	326	\$6,232	364	\$8,102
15	254	\$2,499	254	\$2,248	284	\$4,164	324	\$6,173	364	\$8,333	365	\$10,833
20	256	\$3,094	256	\$2,770	286	\$5,044	326	\$7,305	365	\$9,862	405	\$12,820
25	284	\$3,795	284	\$3,324	324	\$6,001	364	\$8,654	404	\$11,683	405	\$15,187
30	286	\$4,450	286	\$3,876	326	\$7,081	365	\$9,963	405	\$13,449	445	\$17,484
40	324	\$5,750	324	\$5,061	364	\$9,538	404	\$12,341	445	\$16,661	445	\$21,659
50	326	\$7,399	326	\$6,214	365	\$10,988	405	\$15,871	445	\$21,426	447	\$27,854
60	364	\$9,876	364	\$9,035	404	\$12,945	444	\$18,315	447	\$24,725	—	—
75	365	\$12,404	365	\$11,491	405	\$15,263	445	\$20,299	—	—	—	—
100	405	\$16,620	405	\$14,161	444	\$20,898	447	\$28,688	—	—	—	—
125	444	\$20,681	444	\$17,628	445	\$23,904	—	—	—	—	—	—
150	445	\$25,451	445	\$20,923	—	—	—	—	—	—	—	—

\* 60Hz 3600, 1800, 1200 & 900 RPM Motors Comply With U.S. D.O.E.'s Efficiency Regulation 10 CFR Section 431 Subpart B – Electric Motors (See Appendix A2 & A3 For Nominal Efficiency Table)

DISCOUNT SYMBOL: DS-VFTM

† All marks shown within this document are properties of their respective owners.



# Three Phase Modifiable NEMA<sup>®†</sup> Horizontal Motors Totally Enclosed Blower Cooled (TEBC)



## CORRO-DUTY<sup>®</sup>, Inverter Duty, Premium Efficient - IE3 Constant Torque 5000:1 Speed Range

- \* Inverter Grade<sup>®</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- \* Class F Insulation, 1.00 Service Factor (On PWM)
- \* Special Balance
- \* Cast Iron Frame Construction (140: Rolled Steel)
- \* Cast Iron End Shields
- \* Corrosion Resistant Mill And Chemical Duty Paint
- \* Stainless Steel Nameplate And Zinc Plated Hardware

- \* Shaft Slinger On Pulley End For IP54 Protection
- \* Lifting Provisions And Regreasable Bearings On 180 Frame And Up
- \* Class F Thermostats (One Per Phase)
- \* Insulated Shaft ODE 400 Frame & Up
- \* Close Coupled Pump (CCP) Available With Adder
- \* Shaft Grounding Ring

HP	RPM @ 60 Hertz											
	3600		1800		1200		900		720		600	
	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List
0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.33	—	—	—	—	—	—	—	—	—	—	—	—
0.5	—	—	—	—	—	—	—	—	—	—	—	—
0.75	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	182	\$2,066	213	\$2,562	215	\$3,093
1.5	—	—	—	—	182	\$1,694	184	\$2,210	213	\$2,756	254	\$3,387
2	—	—	—	—	184	\$1,800	213	\$2,412	215	\$2,979	256	\$3,676
3	182	\$1,714	182	\$1,603	213	\$2,087	215	\$2,800	254	\$3,543	284	\$4,431
5	184	\$1,958	184	\$1,740	215	\$2,646	254	\$3,707	256	\$4,713	286	\$5,951
7.5	213	\$2,282	213	\$2,140	254	\$3,307	256	\$4,667	284	\$6,084	324	\$7,799
10	215	\$2,538	215	\$2,420	256	\$3,821	284	\$5,524	324	\$7,303	326	\$9,173
15	254	\$3,332	254	\$3,081	284	\$5,072	286	\$7,081	326	\$9,404	364	\$11,976
20	256	\$3,927	256	\$3,603	286	\$5,952	324	\$8,376	364	\$11,005	365	\$13,963
25	284	\$4,703	284	\$4,232	324	\$7,072	326	\$9,725	365	\$12,826	405	\$16,449
30	286	\$5,358	286	\$4,784	326	\$8,152	364	\$11,106	405	\$14,711	405	\$18,746
40	324	\$6,821	324	\$6,132	364	\$10,681	365	\$13,484	405	\$17,923	445	\$23,020
50	326	\$8,470	326	\$7,285	365	\$12,131	404	\$17,133	445	\$22,787	445	\$29,215
60	364	\$11,019	364	\$10,178	404	\$14,207	405	\$19,577	445	\$26,086	447	\$33,545
75	365	\$13,547	365	\$12,634	405	\$16,525	444	\$21,660	447	\$28,806	—	—
100	405	\$17,882	405	\$15,423	444	\$22,259	445	\$30,049	—	—	—	—
125	444	\$22,042	444	\$18,989	445	\$25,265	447	\$32,721	—	—	—	—
150	445	\$26,812	445	\$22,284	447	\$28,857	—	—	—	—	—	—
200	447	\$33,566	447	\$26,893	—	—	—	—	—	—	—	—

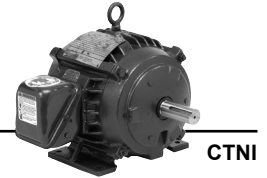
\* Refer To Page A1 For Blower Performance Data.  
 \* 30:1 CT on Open Loop Vector Drives. Speed Range May Be Limited On Other Drive Types.  
 \* For Vector Duty With Encoder, Use Base List Price + Encoder Adder.  
 \* 60Hz 3600, 1800, 1200 & 900 RPM Motors Comply With U.S. D.O.E.'s Efficiency Regulation 10 CFR Section 431 Subpart B – Electric Motors (See Appendix A2 & A3 For Nominal Efficiency Table)

DISCOUNT SYMBOL: DS-VFTM

† All marks shown within this document are properties of their respective owners.



# Three Phase Modifiable NEMA<sup>®†</sup> Horizontal Motors Totally Enclosed Non-Vent (TENV)



## Hostile Duty, Inverter Duty, Premium Efficient - IE3 Constant Torque 5000:1 Speed Range

- \* Inverter Grade<sup>®</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- \* Class F Insulation
- \* 1.0 Service Factor (On PWM)
- \* Special Balance
- \* Cast Iron Frame Construction (140: Rolled Steel)
- \* Cast Iron End Shields
- \* Corrosion Resistant Mill And Chemical Duty Paint
- \* Stainless Steel Nameplate And Zinc Plated Hardware
- \* Shaft Slinger On Pulley End For IP54 Protection
- \* Lifting Provisions And Regreasable Bearings On 180 Frame And Up
- \* Class F Thermostats (One Per Phase)
- \* CORRO-DUTY<sup>®</sup> Available With Adder
- \* Close Coupled Pump (CCP) Available With Adder
- \* Shaft Grounding Ring

HP	RPM @ 60 Hertz											
	3600		1800		1200		900		720		600	
	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List	Frame	List
0.25	145	\$775	145	\$672	143	\$914	145	\$1,416	—	—	—	—
0.33	145	\$775	145	\$672	143	\$914	145	\$1,416	—	—	—	—
0.5	145	\$775	145	\$672	143	\$914	145	\$1,416	—	—	—	—
0.75	145	\$775	145	\$672	145	\$914	182	\$1,416	—	—	—	—
1	145	\$775	145	\$672	145	\$914	182	\$1,416	213	\$1,912	254	\$2,485
1.5	182	\$775	145	\$745	182	\$1,014	184	\$1,571	215	\$2,121	256	\$2,758
2	184	\$921	182	\$817	184	\$1,129	213	\$1,750	254	\$2,362	284	\$3,071
3	215	\$1,035	184	\$915	213	\$1,399	215	\$2,168	256	\$2,927	286	\$3,805
5	215	\$1,299	213	\$1,064	215	\$2,002	254	\$3,104	284	\$4,190	—	—
7.5	254	\$1,609	215	\$1,455	254	\$2,672	256	\$4,140	286	\$5,590	—	—
10	256	\$1,886	254	\$1,758	256	\$3,227	284	\$4,986	324	\$6,730	—	—
15	284	\$2,699	256	\$2,427	284	\$4,497	286	\$6,666	—	—	—	—
20	—	—	284	\$2,992	286	\$5,447	324	\$7,889	—	—	—	—
25	—	—	286	\$3,590	324	\$6,481	—	—	—	—	—	—
30	—	—	324	\$4,186	—	—	—	—	—	—	—	—

\* For Larger Ratings Not Shown, Refer To Hostile Duty.  
 \* For Vector Duty With Encoder, Use Base List Price + Encoder Adder.  
 \* 60Hz 3600, 1800, 1200 & 900 RPM Motors Comply With U.S. D.O.E.'s Efficiency Regulation 10 CFR Section 431 Subpart B – Electric Motors (See Appendix A2 & A3 For Nominal Efficiency Table)

**DISCOUNT SYMBOL: DS-VFTM**

† All marks shown within this document are properties of their respective owners.

