Three Phase Modifiable Motors Vertical Solid Shaft Normal Thrust - "P" Base Hazardous Location 2 Pole, 3600 RPM

VSS-NT Hazardous Location 3600 RPM 460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Both HP & VP Shaft Extension Available on 447 Frames and Smaller

200, 230/460, 575 Volts (&)

НР	Down Thrust		Standard Efficient		Energy Efficient			Premium Efficient		Disc. Sym	
	(lbs)	Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sylli
1.5	220				143HP	\$2,312	LVE	143HP	\$2,488	LVS	7NM
2	220				145HP	\$2,406	LVE	145HP	\$2,591	LVS	7NM
3	300				182HP	\$2,986	LVE	182HP	\$3,108	LVS	7NM
5	300				184HP	\$4,031	LVE	184HP	\$4,200	LVS	7NM
7.5	460				213HP	\$4,557	LVE	213HP	\$4,754	LVS	7NM
10	460				215HP	\$5,094	LVE	215HP	\$5,308	LVS	7NM
15	800				254HP	\$5,564	LVE	254HP	\$5,801	LVS	7NM
20	800				256HP	\$6,690	LVE	256HP	\$6,950	LVS	7NM
25	940				284HP*	\$7,617	LVE	284HP*	\$7,880	LVS	7NM
30	940				286HP*	\$8,164	LVE	286HP*	\$8,455	LVS	7NM
40	1090				324HP	\$10,561	LVE	324HP	\$10,929	LVS	7NM
50	1090				326HP	\$11,687	LVE	326HP	\$12,112	LVS	7NM
60	1360				364HP*	\$14,633	LVE	364HP*	\$15,155	LVS	7NM
75	1360				365HP*	\$17,930	LVE	365HP*	\$18,580	LVS	7NM
100	1825				405HP*	\$23,653	LVE	405HP*	\$24,587	LVS	7NM
125	1210				444HP	\$38,007	LVE	444HP	\$39,603	LVS	7NM
150	1210				447HP	\$44,929	LVE	447HP	\$46,871	LVS	7NM
200	1210				5008P	\$66,507	EV	5008P	\$70,007	EVE	8VM
250	1210	5008P	\$68,040	EV	5008P	\$72,410	EV	5008P	\$76,221	EVE	8VM
300	1210	5008P	\$87,592	EV	5008P	\$93,772	EV	5008P	\$98,707	EVE	8VM
350	1210	5008P	\$102,632	EV	5008P	\$110,205	EV	5008P	\$116,005	EVE	8VM
400	1210	5807P	\$127,033	EV	5807P	\$135,941	EV	5807P	\$143,096	EVE	8VM
450	1210	5809P	\$140,554	EV	5809P	\$149,959	EV	5809P	\$157,852	EVE	8VM
500	1210	5811P	\$156,744	EV	5811P	\$167,166	EV	5811P	\$175,964	EVE	8VM
600	1210	5811P	\$182,373	EV				5811P	\$205,436	EVE	8VM

[&]amp; Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 is Standard

^{* 60}Hz 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 Page M-80 - M-81 for Nominal Efficiency Table)



^{*}Alternate "Z" Option Available for Shaft. See Dimension Pages for Details

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames

Three Phase Modifiable Motors Vertical Solid Shaft Normal Thrust - "P" Base Hazardous Location 4 Pole, 1800 RPM

VSS-NT
Hazardous Location
1800 RPM
460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Both HP & VP Shaft Extension Available on 447 Frame and Smaller

200, 230/460 575 Volts (&)

HP	Down Thrust	Standard Efficient				Energy Efficient			Premium Efficient		Disc. Sym		
	(lbs)	Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sylli		
1	300				143HP	\$1,925	LVE	143HP	\$2,061	LVS	7NM		
1.5	300				145HP	\$2,136	LVE	145HP	\$2,293	LVS	7NM		
2	300				145HP	\$2,347	LVE	145HP	\$2,525	LVS	7NM		
3	420				182HP	\$2,758	LVE	182HP	\$2,864	LVS	7NM		
5	420				184HP	\$3,608	LVE	184HP	\$3,756	LVS	7NM		
7.5	635				213HP	\$4,618	LVE	213HP	\$4,808	LVS	7NM		
10	635				215HP	\$5,094	LVE	215HP	\$5,308	LVS	7NM		
15	1110				254HP	\$6,415	LVE	254HP	\$6,662	LVS	7NM		
20	1110				256HP	\$7,105	LVE	256HP	\$7,385	LVS	7NM		
25	1295				284HP*	\$8,352	LVE	284HP*	\$8,652	LVS	7NM		
30	1295				286HP*	\$9,103	LVE	286HP*	\$9,441	LVS	7NM		
40	1395				324HP	\$10,915	LVE	324HP	\$11,302	LVS	7NM		
50	1395				326HP	\$12,352	LVE	326HP	\$12,809	LVS	7NM		
60	1800				364HP*	\$15,089	LVE	364HP*	\$15,631	LVS	7NM		
75	1800				365HP*	\$18,162	LVE	365HP*	\$18,824	LVS	7NM		
100	2300				405HP*	\$22,759	LVE	405HP*	\$23,651	LVS	7NM		
125	1530				444HP	\$29,244	LVE	444HP	\$30,401	LVS	7NM		
150	1530				447HP	\$34,368	LVE	447HP	\$35,781	LVS	7NM		
200	1530				447HP	\$46,542	LVE	447HP	\$48,516	LVS	7NM		
250	1530	5008P	\$60,336	EV	5008P	\$63,992	EV	5008P	\$67,360	EVE	8VM		
300	1530	5008P	\$69,695	EV	5008P	\$74,219	EV	5008P	\$78,125	EVE	8VM		
350	1530	5008P	\$79,881	EV	5008P	\$85,344	EV	5008P	\$89,836	EVE	8VM		
400	1530	5807P	\$95,129	EV	5807P	\$101,086	EV	5807P	\$106,406	EVE	8VM		
450	1530	5807P	\$104,425	EV	5807P	\$111,241	EV	5807P	\$117,096	EVE	8VM		
500	1530	5809P	\$118,747	EV	5809P	\$126,134	EV	5809P	\$132,773	EVE	8VM		
600	1530	5811P	\$164,544	EV				5811P	\$184,934	EVE	8VM		

[&]amp; Standard Voltages Thru 404 Frame; 405 Frame & Larger, Single Voltage 460 or 575 standard

^{* 60}Hz 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 Page M-80 - M-81 for Nominal Efficiency Table)



^{*} Alternate "Z" Option Available for Shaft. See Dimension Pages for Detail

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames

Three Phase Modifiable Motors Vertical Solid Shaft Normal Thrust - "P" Base Hazardous Location 6 Pole, 1200 RPM

VSS-NT

Hazardous Location 1200 RPM 460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- Both HP & VP Shaft Extension Available on 447 Frames and Smaller

200, 230/460 575 Volts (&)

НР	Down Thrust	Standard Efficient				Energy Efficient			Premium Efficient		Disc. Sym
	(lbs)	Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sym
1	360				145HP	\$2,408	LVE	145HP	\$2,594	LVS	7NM
1.5	500				182HP	\$2,605	LVE	182HP	\$2,709	LVS	7NM
2	500				184HP	\$3,146	LVE	184HP	\$3,334	LVS	7NM
3	775				213HP	\$3,721	LVE	213HP	\$3,876	LVS	7NM
5	775				215HP	\$5,169	LVE	215HP	\$5,388	LVS	7NM
7.5	1350				254HP	\$5,813	LVE	254HP	\$6,061	LVS	7NM
10	1350				256HP	\$7,140	LVE	256HP	\$7,422	LVS	7NM
15	1570				284HP*	\$8,669	LVE	284HP*	\$8,985	LVS	7NM
20	1570				286HP*	\$10,030	LVE	286HP*	\$10,415	LVS	7NM
25	1750				324HP	\$11,772	LVE	324HP	\$12,201	LVS	7NM
30	1750				326HP	\$13,035	LVE	326HP	\$13,528	LVS	7NM
40	2200				364HP*	\$16,589	LVE	364HP*	\$17,206	LVS	7NM
50	2200				365HP*	\$18,802	LVE	365HP*	\$19,533	LVS	7NM
60	2825				404HP*	\$22,688	LVE	404HP*	\$23,576	LVS	7NM
75	2825				405HP*	\$25,813	LVE	405HP*	\$26,857	LVS	7NM
100	1930				444HP	\$33,941	LVE	444HP	\$35,333	LVS	7NM
125	1930				447HP	\$39,756	LVE	447HP	\$41,439	LVS	7NM
150	1930				447HP	\$48,859	LVE	447HP	\$50,950	LVS	7NM
200	1930				5008P	\$83,458	EV	5008P	\$87,850	EVE	8VM
250	1930	5008P	\$81,822	EV	5008P	\$87,469	EV	5008P	\$92,073	EVE	8VM
300	1930	5008P	\$94,604	EV	5008P	\$101,432	EV	5008P	\$106,770	EVE	8VM
350	1930	5807P	\$114,451	EV	5807P	\$122,196	EV	5807P	\$128,627	EVE	8VM
400	1930	5807P	\$129,040	EV	5807P	\$138,136	EV	5807P	\$145,406	EVE	8VM
450	1930	5809P	\$146,808	EV	5809P	\$156,793	EV	5809P	\$165,045	EVE	8VM
500	1930	5809P	\$160,315	EV	5809P	\$171,546	EV	5809P	\$180,575	EVE	8VM
600	1930	5811P	\$190,706	EV				5811P	\$215,018	EVE	8VM

[&]amp; Standard Voltages Thru 404 Frame; 405 Frame & Larger, Single Voltage 460 or 575 standard

^{* 60}Hz 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 Page M-80 - M-81 for Nominal Efficiency Table)



^{*} Alternate "Z" Option Available for Shaft. See Dimension Pages for Detail

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames

Three Phase Modifiable Motors Vertical Solid Shaft Normal Thrust - "P" Base Hazardous Location 8 Pole, 900 RPM

VSS-NT

Hazardous Location 900 RPM 460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Both HP & VP Shaft Extension Available on 447 Frames and Smaller

200, 230/460, 575 Volts (&)

НР	Down Thrust (lbs)	Standard Efficient				Energy Efficient			Premium Efficient		Disc.	
		Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sym	
1.5	570				184HP	\$3,608	LVE				7NM	
2	860				213HP	\$3,956	LVE	213HP	\$4,122	LVS	7NM	
3	860				215HP	\$5,094	LVE	215HP	\$5,308	LVS	7NM	
5	1540				254HP	\$5,857	LVE	254HP	\$6,108	LVS	7NM	
7.5	1540				256HP	\$7,288	LVE	256HP	\$7,577	LVS	7NM	
10	1740				284HP*	\$8,387	LVE	284HP*	\$8,732	LVS	7NM	
15	1740				286HP*	\$10,176	LVE	286HP*	\$10,568	LVS	7NM	
20	1945				324HP	\$12,133	LVE	324HP	\$12,579	LVS	7NM	
25	1945				326HP	\$13,485	LVE	326HP	\$14,000	LVS	7NM	
30	2515				364HP*	\$16,087	LVE	364HP*	\$16,680	LVS	7NM	
40	2515				365HP*	\$18,521	LVE	365HP*	\$19,237	LVS	7NM	
50	3230				404HP*	\$22,303	LVE	404HP*	\$23,172	LVS	7NM	
60	3230				405HP*	\$24,977	LVE	405HP*	\$25,979	LVS	7NM	
75	2240				444HP	\$31,241	LVE	444HP	\$32,497	LVS	7NM	
100	2240				447HP	\$39,835	LVE	447HP	\$41,523	LVS	7NM	
125	2240				447HP	\$54,943	LVE	447HP	\$57,338	LVS	7NM	
150	2240				5008P	\$83,259	EV	5008P	\$87,641	EVE	8VM	
200	2240				5008P	\$94,710	EV	5008P	\$99,695	EVE	8VM	
250	2240	5008P	\$97,662	EV	5008P	\$104,773	EV	5008P	\$110,287	EVE	8VM	
300	2240	5807P	\$120,009	EV	5807P	\$128,268	EV	5807P	\$135,019	EVE	8VM	
350	2240	5807P	\$136,807	EV	5807P	\$146,619	EV	5807P	\$154,336	EVE	8VM	
400	2240	5809P	\$158,787	EV	5809P	\$169,879	EV	5809P	\$178,820	EVE	8VM	
450	2240	5809P	\$172,594	EV	5809P	\$184,962	EV	5809P	\$194,697	EVE	8VM	
500	2240	5811P	\$195,556	EV	5811P	\$209,568	EV	5811P	\$220,598	EVE	8VM	

[&]amp; Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 is Standard

^{* 60}Hz 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 Page M-80 - M-81 for Nominal Efficiency Table)



^{*}Alternate "Z" Option Available for Shaft. See Dimension Pages for Details

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames

See Page M-84 For Available And Alternate BD Dimensions

Three Phase Modifiable Motors
Vertical Solid Shaft
Normal Thrust - "P" Base
Hazardous Location
10 Pole, 720 RPM

VSS-NT

Hazardous Location 720 RPM 460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Both HP & VP Shaft Extension Available on 447 Frames and Smaller

200, 230/460, 575 Volts (&)

НР	Down Thrust (lbs)	Standard Efficient				Energy Efficient				Disc.	
		Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sym
7.5	1700	286HP*	\$7,624	LV	286HP*	\$8,943	LVE	286HP*	\$9,274	LVS	7NM
10	1900	324HP	\$8,385	LV	324HP	\$9,591	LVE	324HP	\$9,953	LVS	7NM
15	2500	364HP	\$11,535	LV	364HP	\$12,786	LVE	364HP	\$13,265	LVS	7NM
20	2500	364HP*	\$13,763	LV	364HP*	\$15,192	LVE	364HP*	\$15,741	LVS	7NM
25	2500	365HP*	\$16,145	LV	365HP*	\$17,934	LVE	365HP*	\$18,619	LVS	7NM
30	3200	405HP*	\$18,615	LV	405HP*	\$20,669	LVE	405HP*	\$21,456	LVS	7NM
40	3200	405HP*	\$23,097	LV	405HP*	\$25,822	LVE	405HP*	\$26,867	LVS	7NM
50	2200	444HP	\$27,260	LV	444HP	\$30,434	LVE	444HP	\$31,650	LVS	7NM
60	2200	444HP	\$32,631	LV	444HP	\$36,610	LVE	444HP	\$38,136	LVS	7NM
75	2200	447HP	\$38,612	LV	447HP	\$43,347	LVE	447HP	\$45,162	LVS	7NM
100	2200	5008P	\$71,355	EV				5008P	\$80,033	EVE	8VM
125	2200	5008P	\$74,059	EV				5008P	\$83,144	EVE	8VM
150	2200	5008P	\$93,975	EV				5008P	\$106,045	EVE	8VM
200	2200	5807P	\$129,368	EV				5807P	\$145,782	EVE	8VM
250	2200	5809P	\$149,343	EV				5809P	\$167,960	EVE	8VM
300	2200	5809P	\$159,449	EV				5809P	\$179,580	EVE	8VM
350	2200	5811P	\$181,711	EV				5811P	\$204,676	EVE	8VM
400	2200	5811P	\$204,901	EV				5811P	\$231,345	EVE	8VM

[&]amp; Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 is Standard



^{*}Alternate "Z" Option Available for Shaft. See Dimension Pages for Details

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames

Three Phase Modifiable Motors Vertical Solid Shaft Normal Thrust - "P" Base Hazardous Location 12 Pole, 600 RPM

VSS-NT

Hazardous Location 600 RPM 460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Both HP & VP Shaft Extension Available on 447 Frames and Smaller

200, 230/460 575 Volts (&)

НР	Down Thrust (lbs)	Standard Efficient				Energy Efficient			Premium Efficient		Disc.
		Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sym
20	2500	365HP*	\$25,394	LV	365HP*	\$28,516	LVE	365HP*	\$29,713	LVS	7NM
25	3200	404HP*	\$30,094	LV	404HP*	\$33,857	LVE	404HP*	\$35,298	LVS	7NM
30	3200	405HP*	\$34,584	LV	405HP*	\$38,857	LVE	405HP*	\$40,495	LVS	7NM
40	2200	444HP	\$43,285	LV	444HP	\$48,756	LVE	444HP	\$50,855	LVS	7NM
50	2200	447HP	\$46,371	LV	447VP	\$52,270	LVE	447HP	\$54,530	LVS	7NM
60	2200	447HP	\$49,800	LV	447VP	\$56,213	LVE	447HP	\$58,673	LVS	7NM
75	2200	5008P	\$73,883	EV				5008P	\$82,942	EVE	8VM
100	2200	5008P	\$89,780	EV				5008P	\$101,223	EVE	8VM
125	2200	5008P	\$105,667	EV				5008P	\$119,493	EVE	8VM
150	2200	5807P	\$125,899	EV				5807P	\$141,791	EVE	8VM
200	2200	5809P	\$159,773	EV				5809P	\$179,953	EVE	8VM
250	2200	5811P	\$166,328	EV				5811P	\$186,986	EVE	8VM
300	2200	5811P	\$189,666	EV				5811P	\$213,824	EVE	8VM

[&]amp; Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 standard



^{*} Alternate "Z" Option Available for Shaft. See Dimension Pages for Detail

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames

Three Phase Modifiable Motors
Vertical Solid Shaft
Normal Thrust - "P" Base
Hazardous Location
14 Pole, 514 RPM

VSS-NT

Hazardous Location 514 RPM 460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * UL Listed Division 1, Class 1, Group D
- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.00 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude

- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Both HP & VP Shaft Extension Available on 447 Frames and Smaller

200, 230/460, 575 Volts (&)

НР	Down Thrust (lbs)	Standard Efficient				Energy Efficient			Premium Efficient		Disc.
		Frame	List	Туре	Frame	List	Туре	Frame	List	Туре	Sym
20	3200	404HP	\$29,211	LV	404HP	\$32,803	LVE	404HP	\$34,178	LVS	7NM
25	3200	404HP	\$35,178	LV	444HP	\$39,505	LVE	404HP	\$41,162	LVS	7NM
30	2200	447HP	\$39,796	LV	447HP	\$44,709	LVE	447HP	\$46,591	LVS	7NM
40	2200	5008P	\$60,916	EV				5008P	\$68,029	EVE	8VM
50	2200	5008P	\$64,625	EV				5008P	\$72,294	EVE	8VM
60	2200	5008P	\$69,085	EV				5008P	\$77,423	EVE	8VM
75	2200	5008P	\$92,503	EV				5008P	\$104,352	EVE	8VM
100	2200	5807P	\$121,244	EV				5807P	\$136,439	EVE	8VM
125	2200	5807P	\$139,145	EV				5807P	\$157,023	EVE	8VM
150	2200	5809P	\$160,855	EV				5809P	\$181,197	EVE	8VM
200	2200	5811P	\$202,354	EV				5811P	\$228,415	EVE	8VM

[&]amp; Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 is Standard



^{*}Alternate "Z" Option Available for Shaft. See Dimension Pages for Details

^{**}Alternate C-Face and D-Flange Options Available on 449 and 5800 Frames