

Three Phase Modifiable Motors
Vertical Solid Shaft
Aerator
Totally Enclosed Fan Cooled (TEFC)
4 Pole, 1800 RPM

VSS
Aerator
TEFC
1800 RPM
460V

APPLICATIONS:

For use on Aerators

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Cast Iron CORRO-DUTY® Construction

200, 230/460, 575 Volts

HP	Down Thrust (lbs)	Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	
5	490	184LP	\$3,411	TVCE-9	184LP	\$3,580	TVCS-9	7IN
7.5	560	213LP	\$4,347	TVCE-9	213LP	\$4,566	TVCS-9	7IN
10	640	215LP	\$4,892	TVCE-9	215LP	\$5,136	TVCS-9	7IN
15	640	254LP	\$5,634	TVCE-9	254LP	\$5,915	TVCS-9	7IN
20	640	256LP	\$6,420	TVCE-9	256LP	\$6,742	TVCS-9	7IN
25	640	284LP	\$6,885	TVCE-9	284LP	\$7,230	TVCS-9	7IN
30	640	286LP	\$7,742	TVCE-9	286LP	\$8,129	TVCS-9	7IN
40	640	324LP	\$8,399	TVCE-9	324LP	\$8,819	TVCS-9	7IN
50	640	326LP	\$9,967	TVCE-9	326LP	\$10,465	TVCS-9	7IN
60	640	364LP	\$11,819	TVCE-9	364LP	\$12,390	TVCS-9	7IN
75	640	365LP	\$14,390	TVCE-9	365LP	\$15,108	TVCS-9	7IN
100	720	405LP	\$19,394	TVCE-9	405LP	\$20,364	TVCS-9	7IN
125	720	444LP	\$26,613	TVCE-9	444LP	\$27,944	TVCS-9	7IN
150	720	447LP	\$32,505	TVCE-9	447LP	\$34,131	TVCS-9	7IN
200	720	447LP	\$45,425	TVCE-9	447LP	\$47,695	TVCS-9	7IN

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

See Page M-84 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



Three Phase Modifiable Motors
Vertical Solid Shaft
Aerator
Totally Enclosed Fan Cooled (TEFC)
6 Pole, 1200 RPM

VSS
Aerator
TEFC
1200 RPM
460V

APPLICATIONS:

For use on Aerators

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Cast Iron CORRO-DUTY® Construction

200, 230/460, 575 Volts (&)

HP	Down Thrust (lbs)	Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	
5	600	215LP	\$4,988	TVCE-9	215LP	\$5,237	TVCS-9	7IN
7.5	720	254LP	\$5,718	TVCE-9	254LP	\$6,005	TVCS-9	7IN
10	720	256LP	\$6,458	TVCE-9	256LP	\$6,782	TVCS-9	7IN
15	720	284LP	\$7,242	TVCE-9	284LP	\$7,603	TVCS-9	7IN
20	720	286LP	\$8,803	TVCE-9	286LP	\$9,244	TVCS-9	7IN
25	800	324LP	\$9,392	TVCE-9	324LP	\$9,862	TVCS-9	7IN
30	800	326LP	\$10,716	TVCE-9	326LP	\$11,251	TVCS-9	7IN
40	800	364LP	\$13,444	TVCE-9	364LP	\$14,115	TVCS-9	7IN
50	800	365LP	\$15,857	TVCE-9	365LP	\$16,650	TVCS-9	7IN
60	960	404LP	\$19,312	TVCE-9	404LP	\$20,277	TVCS-9	7IN
75	960	405LP	\$22,718	TVCE-9	405LP	\$23,854	TVCS-9	7IN
100	960	444LP	\$32,016	TVCE-9	444LP	\$33,617	TVCS-9	7IN
125	960	447LP	\$38,700	TVCE-9	447LP	\$40,636	TVCS-9	7IN
150	960	447LP	\$48,089	TVCE-9	447LP	\$50,495	TVCS-9	7IN

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

See Page M-84 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



Three Phase Modifiable Motors
Vertical Solid Shaft
Aerator
Totally Enclosed Fan Cooled (TEFC)
8 Pole, 900 RPM

VSS
Aerator
TEFC
 900 RPM
 460V

APPLICATIONS:

For use on Aerators

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 Service Factor (Sine Wave Power)
- * Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
- * NEMA Design "B"
- * 3 Phase 60 Hz
- * Cast Iron CORRO-DUTY® Construction

200, 230/460, 575 Volts (&)

HP	Down Thrust (lbs)	Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	
5	800	254LP	\$5,756	TVCE-9	254LP	\$6,045	TVCS-9	7IN
7.5	800	256LP	\$6,634	TVCE-9	256LP	\$6,965	TVCS-9	7IN
10	800	284LP	\$7,887	TVCE-9	284LP	\$8,282	TVCS-9	7IN
15	880	286LP	\$8,974	TVCE-9	286LP	\$9,423	TVCS-9	7IN
20	880	324LP	\$10,286	TVCE-9	324LP	\$10,800	TVCS-9	7IN
25	880	326LP	\$11,047	TVCE-9	326LP	\$11,599	TVCS-9	7IN
30	880	364LP	\$12,810	TVCE-9	364LP	\$13,451	TVCS-9	7IN
40	880	365LP	\$15,437	TVCE-9	365LP	\$16,209	TVCS-9	7IN
50	1120	404LP	\$18,763	TVCE-9	404LP	\$19,702	TVCS-9	7IN
60	1120	405LP	\$21,723	TVCE-9	405LP	\$22,786	TVCS-9	7IN
75	1120	444LP	\$27,700	TVCE-9	444LP	\$29,085	TVCS-9	7IN
100	1120	447LP	\$34,054	TVCE-9	447LP	\$35,756	TVCS-9	7IN
125	1120	447LP	\$55,087	TVCE-9	447LP	\$57,840	TVCS-9	7IN

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

See Page M-84 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



Three Phase Modifiable Motors
Vertical Solid Shaft
Normal Thrust - "P" Base
Weather Protected Type I (WPI)
2 Pole, 3600 RPM

VSS-NT
WPI
3600 RPM
460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 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

200, 230/460, 575 Volts (&)

HP	Down Thrust (lbs)	Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	
5	310	182HP	\$2,615	AVE	182HP	\$2,746	AVS	7NM
7.5	380	184HP	\$3,268	AVE	184HP	\$3,431	AVS	7NM
10	450	213HP	\$3,284	AVE	213HP	\$3,448	AVS	7NM
15	520	215HP	\$3,815	AVE	215HP	\$4,006	AVS	7NM
20	520	254HP	\$4,021	AVE	254HP	\$4,222	AVS	7NM
25	600	256HP	\$4,249	AVE	256HP	\$4,461	AVS	7NM
30	600	284HP	\$4,472	AVE	284HP	\$4,696	AVS	7NM
40	600	286HP	\$5,845	AVE	286HP	\$6,137	AVS	7NM
50	600	324HP	\$6,474	RVE	324HP	\$6,798	RVS	7NM
60	600	326HP	\$7,239	RVE	326HP	\$7,601	RVS	7NM
75	600	364HP	\$8,681	RVE	364HP	\$9,115	RVS	7NM
100	600	365HP	\$11,700	RVE	365HP	\$12,284	RVS	7NM
125	720	404HP	\$14,702	RVE	404HP	\$15,437	RVS	7NM
150	720	405HP	\$17,859	RVE	405HP	\$18,751	RVS	7NM

& Standard Voltages Thru 405 Frame

* Alternate "Z" option available for shaft. See Dimension Pages for Detail.

See Page M-83 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



Three Phase Modifiable Motors
Vertical Solid Shaft
Normal Thrust - “P” Base
Weather Protected Type I (WPI)
4 Pole, 1800 RPM

VSS-NT
WPI
1800 RPM
460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 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 Lower

200, 230/460 575 Volts (&)

HP	Down Thrust (lbs)	Standard Efficient			Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	Frame	List	Type	
3	390	---	---	---	182HP	\$1,634	AVE	182HP	\$1,716	AVS	7NM
5	490	---	---	---	184HP	\$2,512	AVE	184HP	\$2,638	AVS	7NM
7.5	560	---	---	---	213HP	\$2,923	AVE	213HP	\$3,069	AVS	7NM
10	640	---	---	---	215HP	\$3,284	AVE	215HP	\$3,448	AVS	7NM
15	640	---	---	---	254HP	\$3,777	AVE	254HP	\$3,966	AVS	7NM
20	640	---	---	---	256HP	\$4,310	AVE	256HP	\$4,526	AVS	7NM
25	640	---	---	---	284HP*	\$4,620	AVE	284HP*	\$4,851	AVS	7NM
30	640	---	---	---	286HP*	\$5,195	AVE	286HP*	\$5,455	AVS	7NM
40	640	---	---	---	324HP	\$5,516	RVE	324HP	\$5,793	RVS	7NM
50	640	---	---	---	326HP	\$6,547	RVE	326HP	\$6,873	RVS	7NM
60	640	---	---	---	364HP*	\$7,246	RVE	364HP*	\$7,608	RVS	7NM
75	640	---	---	---	365HP*	\$8,822	RVE	365HP*	\$9,263	RVS	7NM
100	720	---	---	---	404HP*	\$11,143	RVE	404HP*	\$11,700	RVS	7NM
125	720	---	---	---	405HP*	\$13,460	RVE	405HP*	\$14,134	RVS	7NM
150	720	---	---	---	444HP	\$16,148	RVE	444HP	\$16,955	RVS	7NM
200	720	---	---	---	445HP	\$21,948	RVE	445HP	\$23,047	RVS	7NM
250	720	445HP	\$19,671	RV	445HP	\$22,622	RVE	445HP	\$23,754	RVS	7NM
300	720	447HP@	\$36,627	RV	447HP@	\$44,445	RVE	447HP@	\$46,784	RVS	7NM
350	720	447HP@	\$40,319	RV	447HP@	\$47,879	RVE	447HP@	\$50,399	RVS	7NM
400	2400	5008VP	\$45,857	RV	5008VP	\$54,451	RV	5008VP	\$57,317	RVE	8VM
450	2400	5008VP	\$51,575	RV	5008VP	\$61,246	RV	5008VP	\$64,469	RVE	8VM
500	2400	5008VP	\$52,063	RV	5008VP	\$61,823	RV	5008VP	\$65,077	RVE	8VM
600	2400	5008VP	\$67,948	RV	---	---	---	5012VP	\$85,937	RVE	8VM

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

@Contact your Nidec Motor Corporation Technical Representative for WPII frame size confirmation prior to quoting.

* Alternate “Z” Option Available for Shaft. See Dimension Pages for Detail

See Page M-83 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



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

Three Phase Modifiable Motors
Vertical Solid Shaft
Normal Thrust - "P" Base
Weather Protected Type I (WPI)
6 Pole, 1200 RPM

VSS-NT
WPI
1200 RPM
460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 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 (lbs)	Standard Efficient			Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	Frame	List	Type	
1.5	400	---	---	---	182HP	\$1,458	AVE	182HP	\$1,531	AVS	7NM
2	450	---	---	---	184HP	\$1,793	AVE	184HP	\$1,883	AVS	7NM
3	560	---	---	---	213HP	\$2,371	AVE	213HP	\$2,490	AVS	7NM
5	600	---	---	---	215HP	\$3,347	AVE	215HP	\$3,514	AVS	7NM
7.5	700	---	---	---	254HP	\$3,838	AVE	254HP	\$4,030	AVS	7NM
10	720	---	---	---	256HP	\$4,333	AVE	256HP	\$4,550	AVS	7NM
15	720	---	---	---	284HP*	\$4,859	AVE	284HP*	\$5,102	AVS	7NM
20	720	---	---	---	286HP*	\$5,911	AVE	286HP*	\$6,207	AVS	7NM
25	800	---	---	---	324HP	\$6,164	RVE	324HP	\$6,472	RVS	7NM
30	800	---	---	---	326HP	\$7,038	RVE	326HP	\$7,390	RVS	7NM
40	800	---	---	---	364HP*	\$8,239	RVE	364HP*	\$8,653	RVS	7NM
50	800	---	---	---	365HP*	\$9,718	RVE	365HP*	\$10,204	RVS	7NM
60	960	---	---	---	404HP*	\$11,096	RVE	404HP*	\$11,650	RVS	7NM
75	960	---	---	---	405HP*	\$13,049	RVE	405HP*	\$13,702	RVS	7NM
100	960	---	---	---	444HP	\$16,197	RVE	444HP	\$17,007	RVS	7NM
125	960	---	---	---	445HP	\$19,232	RVE	445HP	\$20,195	RVS	7NM
150	960	---	---	---	445HP	\$23,228	RVE	445HP	\$24,390	RVS	7NM
200	960	---	---	---	447HP@	\$43,468	RVE	447HP@	\$45,756	RVS	7NM
250	960	447HP@	\$38,312	RV	447HP@	\$45,749	RVE	447HP@	\$48,157	RVS	7NM
300	2900	5008VP	\$45,387	RV	5008VP	\$54,293	RV	5008VP	\$57,150	RVE	8VM
350	2900	5008VP	\$52,606	RV	5008VP	\$62,874	RV	5008VP	\$66,183	RVE	8VM
400	2900	5008VP	\$60,418	RV	5012VP	\$72,173	RV	5012VP	\$75,972	RVE	8VM
450	2900	5012VP	\$66,901	RV	5012VP	\$79,981	RV	5012VP	\$84,190	RVE	8VM
500	2900	5012VP	\$73,681	RV	5012VP	\$86,341	RV	5012VP	\$90,885	RVE	8VM
600	2900	5012VP	\$88,399	RV	---	---	---	5012VP	\$110,505	RVE	8VM

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

@Contact your Nidec Motor Corporation Technical Representative for WPII frame size confirmation prior to quoting.

*Alternate "Z" option available for shaft. See Dimension Pages for Detail.

See Page M-83 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



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

Three Phase Modifiable Motors
Vertical Solid Shaft
Normal Thrust - "P" Base
Weather Protected Type I (WPI)
8 Pole, 900 RPM

VSS-NT
WPI
900 RPM
460V

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- * Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- * 1.15 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 (lbs)	Standard Efficient			Energy Efficient			Premium Efficient			Disc. Sym
		Frame	List	Type	Frame	List	Type	Frame	List	Type	
1.5	520	---	---	---	184HP	\$1,981	AVE	184HP	\$2,080	AVS	7NM
2	610	---	---	---	213HP	\$2,129	AVE	213HP	\$2,235	AVS	7NM
3	700	---	---	---	215HP	\$3,284	AVE	215HP	\$3,448	AVS	7NM
5	800	---	---	---	254HP	\$3,869	AVE	254HP	\$4,062	AVS	7NM
7.5	800	---	---	---	256HP	\$4,455	AVE	256HP	\$4,678	AVS	7NM
10	800	---	---	---	284HP*	\$4,730	AVE	284HP*	\$4,967	AVS	7NM
15	880	---	---	---	286HP*	\$6,021	AVE	286HP*	\$6,322	AVS	7NM
20	880	---	---	---	324HP	\$6,383	RVE	324HP	\$6,702	RVS	7NM
25	880	---	---	---	326HP	\$7,352	RVE	326HP	\$7,721	RVS	7NM
30	880	---	---	---	364HP*	\$7,904	RVE	364HP*	\$8,298	RVS	7NM
40	880	---	---	---	365HP*	\$9,531	RVE	365HP*	\$10,007	RVS	7NM
50	1120	---	---	---	404HP*	\$10,864	RVE	404HP*	\$11,406	RVS	7NM
60	1120	---	---	---	405HP*	\$12,526	RVE	405HP*	\$13,153	RVS	7NM
75	1120	---	---	---	444HP	\$14,366	RVE	444HP	\$15,085	RVS	7NM
100	1120	---	---	---	445HP	\$19,275	RVE	445HP	\$20,239	RVS	7NM
125	1120	---	---	---	447HP@	\$30,748	RVE	447HP@	\$32,366	RVS	7NM
150	1120	---	---	---	447HP@	\$37,668	RVE	447HP@	\$39,650	RVS	7NM
200	3300	---	---	---	5008VP	\$42,429	RV	5008VP	\$44,662	RVE	8VM
250	3300	5008VP	\$47,096	RV	5012VP	\$51,454	RV	5012VP	\$54,162	RVE	8VM
300	3300	5012VP	\$55,702	RV	5012VP	\$60,853	RV	5012VP	\$64,056	RVE	8VM
350	3300	5012VP	\$64,718	RV	5012VP	\$70,704	RV	5012VP	\$74,425	RVE	8VM
400	3300	5012VP	\$73,387	RV	5012VP	\$80,177	RV	5012VP	\$84,397	RVE	8VM
450	3300	5012VP	\$81,932	RV	5012VP	\$89,510	RV	5012VP	\$94,221	RVE	8VM
500	3300	5012VP	\$90,620	RV	5012VP	\$99,000	RV	5012VP	\$104,211	RVE	8VM
600	4400	5813VPA	\$128,305	RV	---	---	---	5813VPA	\$145,824	RVE	8VM

& 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 Detail.

@Contact your Nidec Motor Corporation Technical Representative for WPII frame size confirmation prior to quoting.

See Page M-83 For Available And Alternate BD Dimensions

* 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 Page M-80 - M-81 for Nominal Efficiency Table)



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