## Three Phase Modifiable Motors
## Vertical Solid Shaft
## High Thrust - “P” Base
## Totally Enclosed Fan Cooled (TEFC)
## 2 Pole, 3600 RPM

**VSS-HT**
**TEFC**
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)
* 1.00 Service Factor (Sine Wave Power)
* Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
* NEMA Design “B”
* 3 Phase 60 Hz

**200, 230/460, 575 Volts (&)**

| HP | Down Thrust (lbs)(#) | Standard Efficient | | | Energy Efficient | | | Premium Efficient | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | List | Type | Frame | List | Type | Frame | List | Type | | | |
| 3 | 1400 | 182VP | $2,277 | TV-4 | 182VP | $2,605 | TVE-4 | 182VP | $2,743 | TVS-4 | $333 | $643 | 7VM |
| 5 | 1400 | 184VP | $2,300 | TV-4 | 184VP | $2,632 | TVE-4 | 184VP | $2,770 | TVS-4 | $333 | $634 | 7VM |
| 7.5 | 2200 | 213VP | $2,465 | TV-4 | 213VP | $2,820 | TVE-4 | 213VP | $2,968 | TVS-4 | $343 | $822 | 7VM |
| 10 | 2200 | 215VP | $2,662 | TV-4 | 215VP | $3,113 | TVE-4 | 215VP | $3,276 | TVS-4 | $352 | $822 | 7VM |
| 15 | 2600 | 254VP | $3,099 | TV-4 | 254VP | $3,515 | TVE-4 | 254VP | $3,700 | TVS-4 | $413 | $1,502 | 7VM |
| 20 | 2600 | 256VP | $4,155 | TV-4 | 256VP | $4,689 | TVE-4 | 256VP | $4,936 | TVS-4 | $446 | $1,502 | 7VM |
| 25 | 2600 | 284VP | $4,390 | TV-4 | 284VP | $5,242 | TVE-4 | 284VP | $5,518 | TVS-4 | $474 | $2,347 | 7VM |
| 30 | 2600 | 286VP | $4,845 | TV-4 | 286VP | $5,663 | TVE-4 | 286VP | $5,961 | TVS-4 | $521 | $2,347 | 7VM |
| 40 | 3400 | 324VP | $6,822 | TV-4 | 324VP | $7,773 | TVE-4 | 324VP | $8,182 | TVS-4 | $648 | $3,192 | 7VM |
| 50 | 3400 | 326VP | $7,869 | TV-4 | 326VP | $8,740 | TVE-4 | 326VP | $9,200 | TVS-4 | $746 | $3,192 | 7VM |
| 60 | 3800 | 364VP | $10,056 | TV-4 | 364VP | $11,461 | TVE-4 | 364VP | $12,064 | TVS-4 | $953 | $4,225 | 7VM |
| 75 | 3800 | 365VP | $12,563 | TV-4 | 365VP | $14,784 | TVE-4 | 365VP | $15,562 | TVS-4 | $1,192 | $4,225 | 7VM |
| 100 | 3900 | 405VP | $18,089 | TV-4 | 405VP | $19,885 | TVE-4 | 405VP | $20,932 | TVS-4 | $1,718 | $4,930 | 7VM |
| 125 | 3900 | 444VP | $24,854 | TV-4 | 444VP | $29,579 | TVE-4 | 444VP | $31,136 | TVS-4 | $2,038 | $6,103 | 7VM |
| 150 | 3900 | 447VP | $30,249 | TV-4 | 447VP | $34,556 | TVE-4 | 447VP | $36,375 | TVS-4 | $2,479 | $7,042 | 7VM |
| 200 | 7000<br>7000 | 449VP<br>5008P | $52,523<br>$61,326 | JV-4<br>EV-4 | 449VP<br>5008P | $57,381<br>$67,000 | JV-4<br>EV-4 | 449VP<br>5008VP | $60,401<br>$70,526 | JVE-4<br>EVE-4 | ---<br>--- | N/A<br>--- | 8VM<br>8VM |
| 250 | 7000<br>7000 | 449VP<br>5008P | $58,648<br>$67,451 | JV-4<br>EV-4 | 449VP<br>5008P | $64,072<br>$73,690 | JV-4<br>EV-4 | 449VP<br>5008VP | $67,444<br>$77,568 | JVE-4<br>EVE-4 | ---<br>--- | N/A<br>--- | 8VM<br>8VM |
| 300 | 7000<br>7000 | 449VP<br>5008P | $76,385<br>$87,711 | JV-4<br>EV-4 | 449VP<br>5008P | $83,451<br>$95,826 | JV-4<br>EV-4 | 449VP<br>5008VP | $87,843<br>$100,869 | JVE-4<br>EVE-4 | ---<br>--- | N/A<br>--- | 8VM<br>8VM |
| 350 | 7000<br>7000 | 5807P<br>5807P | $91,892<br>$104,803 | JV-4<br>EV-4 | 5807P<br>5807P | $100,392<br>$114,497 | JV-4<br>EV-4 | 5807P<br>5807P | $105,676<br>$120,523 | JVE-4<br>EVE-4 | ---<br>--- | N/A<br>--- | 8VM<br>8VM |
| 400 | 7000 | 5807P | $110,394 | JV-4 | 5807P | $120,605 | JV-4 | 5807P | $126,953 | JVE-4 | --- | $13,469 | 8VM |
| 450 | 7000 | 5809P | $118,887 | JV-4 | 5809P | $129,885 | JV-4 | 5809P | $136,721 | JVE-4 | --- | $19,484 | 8VM |
| 500 | 7000 | 5811P | $132,099 | JV-4 | 5811P | $144,317 | JV-4 | 5811P | $151,913 | JVE-4 | --- | $22,007 | 8VM |
| 600 | 7000 | 5811P | $158,519 | JV-4 | --- | --- | --- | 5811P | $182,296 | JVE-4 | --- | $22,007 | 8VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
& Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 Standard
• NRR = Non-Reverse Ratchet

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)

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

# Three Phase Modifiable Motors
# Vertical Solid Shaft
# High Thrust - "P" Base
# Totally Enclosed Fan Cooled (TEFC)
# 2 Pole, 3600 RPM

**VSS-HT**
**TEFC**
3600 RPM
2300V/4160V

## APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

## FEATURES:

* 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

**2300 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 125* | 7000 | 449VP | 24.5 | $57,277 | JV-4 | 449VP | 24.5 | $65,869 | JVE-4 | N/A | N/A | 8VM |
| 150 | 7000<br>7000 | 449VP<br>5008P | 24.5<br>24.5 | $62,965<br>$72,925 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $72,408<br>$83,864 | JVE-4<br>EVE-4 | N/A<br>N/A | N/A<br>--- | 8VM<br>8VM |
| 200 | 7000<br>7000 | 449VP<br>5008P | 24.5<br>24.5 | $75,293<br>$86,927 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $86,587<br>$99,967 | JVE-4<br>EVE-4 | N/A<br>N/A | N/A<br>--- | 8VM<br>8VM |
| 250 | 7000<br>7000 | 449VP<br>5008P | 24.5<br>24.5 | $83,242<br>$96,427 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $95,728<br>$110,892 | JVE-4<br>EVE-4 | N/A<br>N/A | N/A<br>--- | 8VM<br>8VM |
| 300 | 7000 | 5807P | 30.5 | $107,631 | JV-4 | 5807P | 30.5 | $123,777 | JVE-4 | N/A | $13,469 | 8VM |
| 350 | 7000 | 5807P | 30.5 | $125,573 | JV-4 | 5807P | 30.5 | $144,408 | JVE-4 | N/A | $13,469 | 8VM |
| 400 | 7000 | 5809P | 30.5 | $129,754 | JV-4 | 5809P | 30.5 | $149,216 | JVE-4 | N/A | $19,484 | 8VM |
| 450 | 7000 | 5809P | 30.5 | $145,974 | JV-4 | 5809P | 30.5 | $167,871 | JVE-4 | N/A | $19,484 | 8VM |
| 500 | 7000 | 5811P | 30.5 | $154,857 | JV-4 | 5811P | 30.5 | $178,085 | JVE-4 | N/A | $22,007 | 8VM |
| 600 | 7000 | 5811P | 30.5 | $185,829 | JV-4 | 5811P | 30.5 | $213,702 | JVE-4 | N/A | $22,007 | 8VM |

**4160 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150* | 7000<br>7000 | 449VP<br>5008P | 24.5<br>24.5 | $76,211<br>$86,174 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $87,643<br>$99,101 | JVE-4<br>EVE-4 | N/A<br>N/A | N/A<br>--- | 8VM<br>8VM |
| 200 | 7000<br>7000 | 449VP<br>5008P | 24.5<br>24.5 | $90,352<br>$101,986 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $103,906<br>$117,284 | JVE-4<br>EVE-4 | N/A<br>N/A | N/A<br>--- | 8VM<br>8VM |
| 250 | 7000 | 5807P | 30.5 | $99,059 | JV-4 | 5807P | 30.5 | $113,918 | JVE-4 | N/A | $13,469 | 8VM |
| 300 | 7000 | 5807P | 30.5 | $134,540 | JV-4 | 5807P | 30.5 | $154,721 | JVE-4 | N/A | $13,469 | 8VM |
| 350 | 7000 | 5809P | 30.5 | $140,641 | JV-4 | 5809P | 30.5 | $161,735 | JVE-4 | N/A | $19,484 | 8VM |
| 400 | 7000 | 5809P | 30.5 | $145,324 | JV-4 | 5809P | 30.5 | $167,122 | JVE-4 | N/A | $19,484 | 8VM |
| 450 | 7000 | 5811P | 30.5 | $161,376 | JV-4 | 5811P | 30.5 | $185,582 | JVE-4 | N/A | $22,007 | 8VM |
| 500 | 7000 | 5811P | 30.5 | $200,692 | JV-4 | 5811P | 30.5 | $230,796 | JVE-4 | N/A | $22,007 | 8VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
* NEMA Design A
• NRR = Non-Reverse Ratchet

See Page M-84 For Available And Alternate BD Dimensions

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

## Three Phase Modifiable Motors
## Vertical Solid Shaft
## High Thrust - “P” Base
## Totally Enclosed Fan Cooled (TEFC)
## 4 Pole, 1800 RPM

**VSS-HT**
**TEFC**
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)
* 1.00 Service Factor (Sine Wave Power)
* Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
* NEMA Design “B”
* 3 Phase 60 Hz

**200, 230/460, 575 Volts (&)**

| HP | Down Thrust (lbs)(#) | Standard Efficient | | | Energy Efficient | | | Premium Efficient | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | List | Type | Frame | List | Type | Frame | List | Type | | | |
| 3 | 1800 | 182VP | $2,284 | TV-4 | 182VP | $2,634 | TVE-4 | 182VP | $2,773 | TVS-4 | $333 | $634 | 7VM |
| 5 | 1800 | 184VP | $2,284 | TV-4 | 184VP | $2,634 | TVE-4 | 184VP | $2,773 | TVS-4 | $333 | $634 | 7VM |
| 7.5 | 2500 | 213VP | $2,366 | TV-4 | 213VP | $2,758 | TVE-4 | 213VP | $2,903 | TVS-4 | $343 | $822 | 7VM |
| 10 | 2500 | 215VP | $2,662 | TV-4 | 215VP | $3,030 | TVE-4 | 215VP | $3,189 | TVS-4 | $352 | $822 | 7VM |
| 15 | 3300 | 254VP | $3,939 | TV-4 | 254VP | $4,381 | TVE-4 | 254VP | $4,612 | TVS-4 | $423 | $1,502 | 7VM |
| 20 | 3300 | 256VP | $4,488 | TV-4 | 256VP | $4,888 | TVE-4 | 256VP | $5,146 | TVS-4 | $488 | $1,502 | 7VM |
| 25 | 3300 | 284VP | $5,005 | TV-4 | 284VP | $5,562 | TVE-4 | 284VP | $5,854 | TVS-4 | $545 | $2,347 | 7VM |
| 30 | 3300 | 286VP | $5,629 | TV-4 | 286VP | $6,139 | TVE-4 | 286VP | $6,462 | TVS-4 | $610 | $2,347 | 7VM |
| 40 | 4500 | 324VP | $7,150 | TV-4 | 324VP | $7,886 | TVE-4 | 324VP | $8,301 | TVS-4 | $681 | $3,192 | 7VM |
| 50 | 4500 | 326VP | $8,484 | TV-4 | 326VP | $9,115 | TVE-4 | 326VP | $9,595 | TVS-4 | $808 | $3,192 | 7VM |
| 60 | 5600 | 364VP | $10,498 | TV-4 | 364VP | $11,404 | TVE-4 | 364VP | $12,004 | TVS-4 | $1,000 | $4,225 | 7VM |
| 75 | 5600 | 365VP | $12,784 | TV-4 | 365VP | $13,513 | TVE-4 | 365VP | $14,225 | TVS-4 | $1,211 | $4,225 | 7VM |
| 100 | 7000 | 405VP | $17,225 | TV-4 | 405VP | $18,307 | TVE-4 | 405VP | $19,271 | TVS-4 | $1,634 | $4,930 | 7VM |
| 125 | 9300 | 444VP | $22,761 | TV-4 | 444VP | $26,189 | TVE-4 | 444VP | $27,568 | TVS-4 | $1,869 | $6,103 | 7VM |
| 150 | 9300 | 447VP | $27,803 | TV-4 | 447VP | $30,841 | TVE-4 | 447VP | $32,464 | TVS-4 | $2,282 | $7,042 | 7VM |
| 200 | 9300 | 447VP | $38,854 | TV-4 | 447VP | $41,050 | TVE-4 | 447VP | $43,210 | TVS-4 | $3,188 | $7,042 | 7VM |
| 250 | 8800<br>8800 | 449VP<br>5008P | $54,714<br>$68,066 | JV-4<br>EV-4 | 449VP<br>5008P | $59,774<br>$74,361 | JV-4<br>EV-4 | 449VP<br>5008P | $62,920<br>$78,275 | JVE-4<br>EVE-4 | $1,352<br>$1,352 | N/A<br>--- | 8VM<br>8VM |
| 300 | 8800<br>8800 | 449VP<br>5008P | $60,434<br>$70,998 | JV-4<br>EV-4 | 449VP<br>5008P | $66,025<br>$77,566 | JV-4<br>EV-4 | 449VP<br>5008P | $69,500<br>$81,648 | JVE-4<br>EVE-4 | $1,512<br>$1,512 | N/A<br>--- | 8VM<br>8VM |
| 350 | 8800<br>8800 | 449VP<br>5008P | $71,380<br>$82,707 | JV-4<br>EV-4 | 449VP<br>5008P | $77,983<br>$90,357 | JV-4<br>EV-4 | 449VP<br>5008P | $82,087<br>$95,113 | JVE-4<br>EVE-4 | $1,784<br>$1,784 | N/A<br>--- | 8VM<br>8VM |
| 400 | 9500 | 5807P | $80,833 | JV-4 | 5807P | $88,310 | JV-4 | 5807P | $92,958 | JVE-4 | $1,873 | $11,326 | 8VM |
| 450 | 9500 | 5807P | $90,831 | JV-4 | 5807P | $99,232 | JV-4 | 5807P | $104,455 | JVE-4 | $1,873 | $13,469 | 8VM |
| 500 | 9500 | 5809P | $100,552 | JV-4 | 5809P | $109,852 | JV-4 | 5809P | $115,634 | JVE-4 | $1,981 | $15,549 | 8VM |
| 600 | 9500 | 5811P | $146,160 | JV-4 | --- | --- | --- | 5811P | $168,082 | JVE-4 | $2,408 | $22,007 | 8VM |
| 700 | 9300 | 5812VP | $165,160 | JV-4 | --- | --- | --- | 5812VP | $189,932 | JVE-4 | $2,650 | $22,007 | 8VM |
| 800 | 9300 | 5812VP | $189,720 | JV-4 | --- | --- | --- | 5812VP | $218,178 | JVE-4 | $3,045 | N/A | 8VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
& Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 Standard
• NRR = Non-Reverse Ratchet

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)

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

# Three Phase Modifiable Motors
# Vertical Solid Shaft
# High Thrust - "P" Base
# Totally Enclosed Fan Cooled (TEFC)
# 4 Pole, 1800 RPM

**VSS-HT**
**TEFC**
1800 RPM
2300V/4160V

## APPLICATIONS:
For use on Turbine, Mix Flow and Propeller Pumps

## FEATURES:
* 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

**2300 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150 | 8800<br>8800 | 449VP<br>5008P | 24.5<br>24.5 | $55,495<br>$62,146 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $63,819<br>$71,467 | JVE-4<br>EVE-4 | $1,387<br>$1,387 | N/A<br>--- | 8VM<br>8VM |
| 200 | 8800<br>8800 | 449VP<br>5008P | 24.5<br>24.5 | $61,373<br>$69,045 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $70,580<br>$79,401 | JVE-4<br>EVE-4 | $1,535<br>$1,535 | N/A<br>--- | 8VM<br>8VM |
| 250 | 8800<br>8800 | 449VP<br>5008P | 24.5<br>24.5 | $68,944<br>$79,507 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $79,286<br>$91,434 | JVE-4<br>EVE-4 | $1,723<br>$1,723 | N/A<br>--- | 8VM<br>8VM |
| 300 | 9500 | 5807P | 30.5 | $77,559 | JV-4 | 5807P | 30.5 | $89,192 | JVE-4 | $1,854 | $10,563 | 8VM |
| 350 | 9500 | 5807P | 30.5 | $89,366 | JV-4 | 5807P | 30.5 | $102,772 | JVE-4 | $1,854 | $13,469 | 8VM |
| 400 | 9500 | 5807P | 30.5 | $99,390 | JV-4 | 5809P | 30.5 | $114,298 | JVE-4 | $2,061 | $13,469 | 8VM |
| 450 | 9500 | 5809P | 30.5 | $110,901 | JV-4 | 5809P | 30.5 | $127,535 | JVE-4 | $2,286 | $19,484 | 8VM |
| 500 | 9500 | 5809P | 30.5 | $123,239 | JV-4 | 5809P | 30.5 | $141,725 | JVE-4 | $2,627 | $19,484 | 8VM |
| 600 | 9500 | 5811P | 30.5 | $147,887 | JV-4 | 5811P | 30.5 | $170,070 | JVE-4 | $3,134 | $22,007 | 8VM |
| 700 | 9300 | 5812P | 30.5 | $172,535 | JV-4 | 5812P | 30.5 | $198,415 | JVE-4 | $4,573 | N/A | 8VM |
| 800 | 9300 | 5812P | 30.5 | $189,720 | JV-4 | 5812P | 30.5 | $218,178 | JVE-4 | $5,170 | N/A | 8VM |
| 900 | 9300 | 5812P | 30.5 | $201,229 | JV-4 | 5812P | 30.5 | $231,413 | JVE-4 | $5,484 | N/A | 8VM |
| 1000 | 9300 | 5812P | 30.5 | $212,138 | JV-4 | 5812P | 30.5 | $243,959 | JVE-4 | $5,780 | N/A | 8VM |
| 1250** | 9300 | 5812P | 30.5 | $237,143 | JV-4 | 5812P | 30.5 | $272,715 | JVE-4 | $6,462 | N/A | 8VM |
| 1500 | 10900 | 6812VPA | 36 | $258,486 | JV-4 | 6812VPA | 36 | $297,259 | JVE-4 | $7,108 | N/A | 9VM |
| 1750 | 10900 | 6812VPA | 36 | $281,750 | JV-4 | 6812VPA | 36 | $324,013 | JVE-4 | $7,819 | N/A | 9VM |
| 2000** | 10900 | 6812VPA | 36 | $307,107 | JV-4 | 6812VPA | 36 | $353,173 | JVE-4 | $8,601 | N/A | 9VM |

**4160 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150 | 8800<br>8800 | 449VP<br>5008P | 24.5<br>24.5 | $59,660<br>$66,310 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $68,608<br>$76,256 | JVE-4<br>EVE-4 | $1,387<br>$1,387 | N/A<br>--- | 8VM<br>8VM |
| 200 | 8800<br>8800 | 449VP<br>5008P | 24.5<br>24.5 | $65,977<br>$73,648 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $75,873<br>$84,695 | JVE-4<br>EVE-4 | $1,535<br>$1,535 | N/A<br>--- | 8VM<br>8VM |
| 250 | 9500<br>9500 | 5807P<br>5807P | 30.5<br>30.5 | $74,115<br>$84,678 | JV-4<br>EV-4 | 5807P<br>5807P | 24.5<br>24.5 | $85,230<br>$97,380 | JVE-4<br>EVE-4 | $1,723<br>$1,723 | N/A<br>--- | 8VM<br>8VM |
| 300 | 9500 | 5807P | 30.5 | $83,376 | JV-4 | 5807P | 30.5 | $95,880 | JVE-4 | $1,854 | $10,563 | 8VM |
| 350 | 9500 | 5807P | 30.5 | $96,068 | JV-4 | 5807P | 30.5 | $110,479 | JVE-4 | $1,854 | $13,469 | 8VM |
| 400 | 9500 | 5809P | 30.5 | $105,352 | JV-4 | 5809P | 30.5 | $121,155 | JVE-4 | $2,061 | $13,469 | 8VM |
| 450 | 9500 | 5809P | 30.5 | $117,556 | JV-4 | 5809P | 30.5 | $135,190 | JVE-4 | $2,286 | $19,484 | 8VM |
| 500 | 9500 | 5811P | 30.5 | $130,840 | JV-4 | 5811P | 30.5 | $150,465 | JVE-4 | $2,627 | $19,484 | 8VM |
| 600 | 9500 | 5811P | 30.5 | $157,007 | JV-4 | 5811P | 30.5 | $180,559 | JVE-4 | $3,134 | $22,007 | 8VM |
| 700 | 9300 | 5812P | 30.5 | $186,338 | JV-4 | 5812P | 30.5 | $214,289 | JVE-4 | $4,573 | N/A | 8VM |
| 800 | 9300 | 5812P | 30.5 | $199,205 | JV-4 | 5812P | 30.5 | $229,086 | JVE-4 | $5,170 | N/A | 8VM |
| 900 | 9300 | 5812P | 30.5 | $211,290 | JV-4 | 5812P | 30.5 | $242,984 | JVE-4 | $5,484 | N/A | 8VM |
| 1000 | 9300 | 5812P | 30.5 | $222,745 | JV-4 | 5812P | 30.5 | $256,157 | JVE-4 | $5,780 | N/A | 8VM |
| 1250** | 9300 | 5812P | 30.5 | $249,000 | JV-4 | 5812P | 30.5 | $286,350 | JVE-4 | $6,462 | N/A | 8VM |
| 1500 | 10900 | 6812VPA | 36 | $271,410 | JV-4 | 6812VPA | 36 | $312,122 | JVE-4 | $6,850 | N/A | 9VM |
| 1750 | 10900 | 6812VPA | 36 | $295,837 | JV-4 | 6812VPA | 36 | $340,213 | JVE-4 | $7,261 | N/A | 9VM |
| 2000** | 10900 | 6812VPA | 36 | $322,462 | JV-4 | 6812VPA | 36 | $370,831 | JVE-4 | $7,696 | N/A | 9VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
** Class B rise by embedded detector at 1.0 Service Factor. Price includes 100 ohm winding Resistance Temperature Detectors
• NRR = Non-Reverse Ratchet SRC = Self Release Coupling

See Page M-84 For Available And Alternate BD Dimensions

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

## Three Phase Modifiable Motors
## Vertical Solid Shaft
## High Thrust - “P” Base
## Totally Enclosed Fan Cooled (TEFC)
## 6 Pole, 1200 RPM

**VSS-HT**
**TEFC**
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)
* 1.00 Service Factor (Sine Wave Power)
* Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
* NEMA Design “B”
* 3 Phase 60 Hz

**200, 230/460, 575 Volts (&)**

| HP | Down Thrust (lbs)(#) | Standard Efficient | | | Energy Efficient | | | Premium Efficient | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | List | Type | Frame | List | Type | Frame | List | Type | | | |
| 2 | 2000 | 184VP | $2,498 | TV-4 | 184VP | $2,998 | TVE-4 | 184VP | $3,148 | TVS-4 | $286 | $634 | 7VM |
| 3 | 2900 | 213VP | $2,711 | TV-4 | 213VP | $3,195 | TVE-4 | 213VP | $3,354 | TVS-4 | $291 | $822 | 7VM |
| 5 | 2900 | 215VP | $3,357 | TV-4 | 215VP | $4,092 | TVE-4 | 215VP | $4,296 | TVS-4 | $394 | $822 | 7VM |
| 7.5 | 3800 | 254VP | $4,000 | TV-4 | 254VP | $4,735 | TVE-4 | 254VP | $4,972 | TVS-4 | $469 | $1,502 | 7VM |
| 10 | 3800 | 256VP | $4,516 | TV-4 | 256VP | $5,385 | TVE-4 | 256VP | $5,655 | TVS-4 | $488 | $1,502 | 7VM |
| 15 | 3800 | 284VP | $5,268 | TV-4 | 284VP | $6,390 | TVE-4 | 284VP | $6,709 | TVS-4 | $568 | $2,347 | 7VM |
| 20 | 3800 | 286VP | $6,404 | TV-4 | 286VP | $7,526 | TVE-4 | 286VP | $7,901 | TVS-4 | $690 | $2,347 | 7VM |
| 25 | 5100 | 324VP | $7,991 | TV-4 | 324VP | $9,458 | TVE-4 | 324VP | $9,930 | TVS-4 | $761 | $3,192 | 7VM |
| 30 | 5100 | 326VP | $9,122 | TV-4 | 326VP | $10,589 | TVE-4 | 326VP | $11,120 | TVS-4 | $864 | $3,192 | 7VM |
| 40 | 6400 | 364VP | $11,944 | TV-4 | 364VP | $14,547 | TVE-4 | 364VP | $15,275 | TVS-4 | $1,136 | $4,225 | 7VM |
| 50 | 6400 | 365VP | $14,085 | TV-4 | 365VP | $16,688 | TVE-4 | 365VP | $17,521 | TVS-4 | $1,338 | $4,225 | 7VM |
| 60 | 8000 | 404VP | $17,155 | TV-4 | 404VP | $20,772 | TVE-4 | 404VP | $21,810 | TVS-4 | $1,634 | $4,930 | 7VM |
| 75 | 8000 | 405VP | $20,178 | TV-4 | 405VP | $23,796 | TVE-4 | 405VP | $24,986 | TVS-4 | $1,915 | $4,930 | 7VM |
| 100 | 10600 | 444VP | $27,385 | TV-4 | 444VP | $32,915 | TVE-4 | 444VP | $34,561 | TVS-4 | $2,925 | $6,103 | 7VM |
| 125 | 10600 | 447VP | $33,103 | TV-4 | 447VP | $38,634 | TVE-4 | 447VP | $40,566 | TVS-4 | $3,371 | $7,042 | 7VM |
| 150 | 10600 | 447VP | $41,202 | TV-4 | 447VP | $47,312 | TVE-4 | 447VP | $49,678 | TVS-4 | $3,371 | $7,042 | 7VM |
| 200 | 10000<br>10000 | 449VP<br>5008P | $69,521<br>$79,822 | JV-4<br>EV-4 | 449VP<br>5008P | $75,953<br>$87,206 | JV-4<br>EV-4 | 449VP<br>5008P | $79,951<br>$91,796 | JVE-4<br>EVE-4 | $1,967<br>$1,967 | N/A<br>--- | 8VM<br>8VM |
| 250 | 10000<br>10000 | 449VP<br>5008P | $73,469<br>$85,291 | JV-4<br>EV-4 | 449VP<br>5008P | $80,264<br>$93,183 | JV-4<br>EV-4 | 449VP<br>5008P | $84,488<br>$98,087 | JVE-4<br>EVE-4 | $2,077<br>$2,077 | N/A<br>--- | 8VM<br>8VM |
| 300 | 10000<br>11000 | 449VP<br>5807P | $87,214<br>$98,540 | JV-4<br>EV-4 | 449VP<br>5807P | $95,278<br>$107,658 | JV-4<br>EV-4 | 449VP<br>5807P | $100,293<br>$113,324 | JVE-4<br>EVE-4 | $2,077<br>$2,077 | N/A<br>--- | 8VM<br>8VM |
| 350 | 11000 | 5807P | $101,610 | JV-4 | 5807P | $111,009 | JV-4 | 5807P | $116,852 | JVE-4 | $2,096 | $13,469 | 8VM |
| 400 | 11000 | 5807P | $117,298 | JV-4 | 5807P | $128,147 | JV-4 | 5807P | $134,892 | JVE-4 | $2,406 | $13,469 | 8VM |
| 450 | 11000 | 5809P | $133,070 | JV-4 | 5809P | $142,814 | JV-4 | 5809P | $150,331 | JVE-4 | $2,709 | $19,484 | 8VM |
| 500 | 11000 | 5809P | $145,246 | JV-4 | 5809P | $158,681 | JV-4 | 5809P | $167,033 | JVE-4 | $3,007 | $19,484 | 8VM |
| 600 | 11000 | 5811P | $174,296 | JV-4 | --- | --- | --- | 5811P | $200,441 | JVE-4 | $3,610 | $22,007 | 8VM |
| 700 | 10600 | 5812P | $188,260 | JV-4 | --- | --- | --- | 5812P | $216,499 | JVE-4 | $3,900 | N/A | 8VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
& Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 is standard
• NRR = Non-Reverse Ratchet

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)

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

# Three Phase Modifiable Motors
# Vertical Solid Shaft
# High Thrust - "P" Base
# Totally Enclosed Fan Cooled (TEFC)
# 6 Pole, 1200 RPM

**VSS-HT**
**TEFC**
1200 RPM
2300V/4160V

## APPLICATIONS:
For use on Turbine, Mix Flow and Propeller Pumps

## FEATURES:
* 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

**2300 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 125 | 10000<br>10000 | 449VP<br>5008P | 24.5<br>24.5 | $62,275<br>$68,923 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $71,615<br>$79,261 | JVE-4<br>EVE-4 | $2,174<br>$2,174 | N/A<br>--- | 8VM<br>8VM |
| 150 | 10000<br>10000 | 449VP<br>5008P | 24.5<br>24.5 | $66,784<br>$74,455 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $76,803<br>$85,624 | JVE-4<br>EVE-4 | $2,174<br>$2,174 | N/A<br>--- | 8VM<br>8VM |
| 200 | 10000<br>10000 | 449VP<br>5008P | 24.5<br>24.5 | $82,582<br>$91,700 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $94,969<br>$105,455 | JVE-4<br>JVE-4 | $2,174<br>$2,174 | N/A<br>--- | 8VM<br>8VM |
| 250 | 11000 | 5807P | 30.5 | $93,026 | JV-4 | 5807P | 30.5 | $106,977 | JVE-4 | $2,200 | $11,326 | 8VM |
| 300 | 11000 | 5807P | 30.5 | $107,700 | JV-4 | 5807P | 30.5 | $123,854 | JVE-4 | $2,225 | $13,469 | 8VM |
| 350 | 11000 | 5807P | 30.5 | $120,986 | JV-4 | 5807P | 30.5 | $139,134 | JVE-4 | $2,261 | $13,469 | 8VM |
| 400 | 11000 | 5809P | 30.5 | $134,509 | JV-4 | 5809P | 30.5 | $154,685 | JVE-4 | $2,406 | $19,484 | 8VM |
| 450 | 11000 | 5809P | 30.5 | $154,636 | JV-4 | 5809P | 30.5 | $177,831 | JVE-4 | $2,918 | $19,484 | 8VM |
| 500 | 11000 | 5811P | 30.5 | $176,286 | JV-4 | 5811P | 30.5 | $202,728 | JVE-4 | $3,324 | $19,484 | 8VM |
| 600 | 10600 | 5812P | 30.5 | $202,730 | JV-4 | 5812P | 30.5 | $233,138 | JVE-4 | $3,824 | N/A | 8VM |
| 700 | 10600 | 5812P | 30.5 | $218,405 | JV-4 | 5812P | 30.5 | $251,166 | JVE-4 | $5,952 | N/A | 8VM |
| 800** | 10600 | 5812P | 30.5 | $234,436 | JV-4 | 5812P | 30.5 | $269,601 | JVE-4 | $6,388 | N/A | 8VM |
| 900 | 13700 | 6812VPA | 36 | $247,512 | JV-4 | 6812VPA | 36 | $284,639 | JVE-4 | $6,771 | N/A | 9VM |
| 1000 | 13700 | 6812VPA | 36 | $260,930 | JV-4 | 6812VPA | 36 | $300,070 | JVE-4 | $7,178 | N/A | 9VM |
| 1250 | 13700 | 6812VPA | 36 | $291,686 | JV-4 | 6812VPA | 36 | $335,439 | JVE-4 | $7,608 | N/A | 9VM |

**4160 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150 | 10000<br>10000 | 449VP<br>5008P | 24.5<br>24.5 | $79,472<br>$87,143 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $91,392<br>$100,214 | JVE-4<br>EVE-4 | $2,174<br>$2,174 | N/A<br>--- | 8VM<br>8VM |
| 200 | 11000<br>11000 | 5807P<br>5807P | 30.5<br>30.5 | $93,901<br>$103,016 | JV-4<br>EV-4 | 5807P<br>5807P | 30.5<br>30.5 | $107,986<br>$118,469 | JVE-4<br>JVE-4 | $2,174<br>$2,174 | N/A<br>--- | 8VM<br>8VM |
| 250 | 11000 | 5807P | 30.5 | $99,791 | JV-4 | 5807P | 30.5 | $114,761 | JVE-4 | $2,200 | $11,326 | 8VM |
| 300 | 11000 | 5807P | 30.5 | $114,162 | JV-4 | 5807P | 30.5 | $131,284 | JVE-4 | $2,225 | $13,469 | 8VM |
| 350 | 11000 | 5807P | 30.5 | $128,404 | JV-4 | 5807P | 30.5 | $147,664 | JVE-4 | $2,261 | $13,469 | 8VM |
| 400 | 11000 | 5809P | 30.5 | $142,580 | JV-4 | 5809P | 30.5 | $163,967 | JVE-4 | $2,406 | $19,484 | 8VM |
| 450 | 11000 | 5811P | 30.5 | $163,915 | JV-4 | 5811P | 30.5 | $188,502 | JVE-4 | $2,918 | $19,484 | 8VM |
| 500 | 11000 | 5811P | 30.5 | $186,864 | JV-4 | 5811P | 30.5 | $214,892 | JVE-4 | $3,324 | $19,484 | 8VM |
| 600 | 10600 | 5812P | 30.5 | $214,894 | JV-4 | 5812P | 30.5 | $247,129 | JVE-4 | $3,824 | N/A | 8VM |
| 700 | 10600 | 5812P | 30.5 | $229,325 | JV-4 | 5812P | 30.5 | $263,724 | JVE-4 | $5,952 | N/A | 8VM |
| 800** | 10600 | 5812P | 30.5 | $246,158 | JV-4 | 5812P | 30.5 | $283,082 | JVE-4 | $6,388 | N/A | 8VM |
| 900 | 13700 | 6812VPA | 36 | $260,943 | JV-4 | 6812VPA | 36 | $300,084 | JVE-4 | $6,771 | N/A | 9VM |
| 1000 | 13700 | 6812VPA | 36 | $273,976 | JV-4 | 6812VPA | 36 | $315,072 | JVE-4 | $7,178 | N/A | 9VM |
| 1250 | 13700 | 6812VPA | 36 | $306,270 | JV-4 | 6812VPA | 36 | $352,211 | JVE-4 | $7,608 | N/A | 9VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
** Class B rise by embedded detector at 1.0 Service Factor. Price includes 100 ohm winding Resistance Temperature Detectors
• NRR = Non-Reverse Ratchet SRC = Self Release Coupling
See Page M-84 For Available And Alternate BD Dimensions

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

## Three Phase Modifiable Motors
## Vertical Solid Shaft
## High Thrust - “P” Base
## Totally Enclosed Fan Cooled (TEFC)
## 8 Pole, 900 RPM

**VSS-HT**
**TEFC**
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)
* 1.00 Service Factor (Sine Wave Power)
* Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
* NEMA Design “B”
* 3 Phase 60 Hz

**200, 230/460, 575 Volts (&)**

| HP | Down Thrust (lbs)(#) | Standard Efficient | | | Energy Efficient | | | Premium Efficient | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | List | Type | Frame | List | Type | Frame | List | Type | | | |
| 1.5 | 2000 | 184VP | $2,322 | TV-4 | 184VP | $2,538 | TVE-4 | 184VP | $2,664 | TVS-4 | $286 | $634 | 7VM |
| 2 | 3200 | 213VP | $2,340 | TV-4 | 213VP | $2,805 | TVE-4 | 213VP | $2,946 | TVS-4 | $291 | $822 | 7VM |
| 3 | 3200 | 215VP | $2,662 | TV-4 | 215VP | $3,397 | TVE-4 | 215VP | $3,566 | TVS-4 | $385 | $822 | 7VM |
| 5 | 4200 | 254VP | $4,028 | TV-4 | 254VP | $4,897 | TVE-4 | 254VP | $5,141 | TVS-4 | $469 | $1,502 | 7VM |
| 7.5 | 4200 | 256VP | $4,638 | TV-4 | 256VP | $5,507 | TVE-4 | 256VP | $5,782 | TVS-4 | $540 | $1,502 | 7VM |
| 10 | 4200 | 284VP | $5,737 | TV-4 | 284VP | $6,859 | TVE-4 | 284VP | $7,202 | TVS-4 | $540 | $2,347 | 7VM |
| 15 | 4200 | 286VP | $6,526 | TV-4 | 286VP | $7,648 | TVE-4 | 286VP | $8,031 | TVS-4 | $704 | $2,347 | 7VM |
| 20 | 5600 | 324VP | $8,277 | TV-4 | 324VP | $9,744 | TVE-4 | 324VP | $10,232 | TVS-4 | $784 | $3,192 | 7VM |
| 25 | 5600 | 326VP | $9,531 | TV-4 | 326VP | $10,998 | TVE-4 | 326VP | $11,547 | TVS-4 | $894 | $3,192 | 7VM |
| 30 | 7000 | 364VP | $11,333 | TV-4 | 364VP | $13,204 | TVE-4 | 364VP | $13,864 | TVS-4 | $1,089 | $4,225 | 7VM |
| 40 | 7000 | 365VP | $13,812 | TV-4 | 365VP | $16,415 | TVE-4 | 365VP | $17,237 | TVS-4 | $1,310 | $4,225 | 7VM |
| 50 | 8800 | 404VP | $16,789 | TV-4 | 404VP | $20,406 | TVE-4 | 404VP | $21,427 | TVS-4 | $1,596 | $4,930 | 7VM |
| 60 | 8800 | 405VP | $19,601 | TV-4 | 405VP | $23,218 | TVE-4 | 405VP | $24,380 | TVS-4 | $1,840 | $4,930 | 7VM |
| 75 | 11700 | 444VP | $24,812 | TV-4 | 444VP | $30,343 | TVE-4 | 444VP | $31,859 | TVS-4 | $2,033 | $6,103 | 7VM |
| 100 | 11700 | 447VP | $33,183 | TV-4 | 447VP | $38,714 | TVE-4 | 447VP | $40,650 | TVS-4 | $2,718 | $7,042 | 7VM |
| 125 | 11700 | 447VP | $45,277 | TV-4 | 447VP | $50,808 | TVE-4 | 447VP | $53,347 | TVS-4 | $2,718 | $7,042 | 7VM |
| 150 | 11000<br>11000 | 449VP<br>5008P | $69,326<br>$79,009 | JV-4<br>EV-4 | 449VP<br>5008P | $75,737<br>$86,319 | JV-4<br>EV-4 | 449VP<br>5008P | $79,723<br>$90,862 | JVE-4<br>EVE-4 | $1,674<br>$1,674 | N/A<br>--- | 8VM<br>8VM |
| 200 | 11000<br>11000 | 449VP<br>5008P | $80,596<br>$90,467 | JV-4<br>EV-4 | 449VP<br>5008P | $88,051<br>$98,836 | JV-4<br>EV-4 | 449VP<br>5008P | $92,685<br>$104,038 | JVE-4<br>EVE-4 | $1,674<br>$1,674 | N/A<br>--- | 8VM<br>8VM |
| 250 | 11000<br>12300 | 449VP<br>5807P | $90,500<br>$101,826 | JV-4<br>EV-4 | 449VP<br>5807P | $98,869<br>$111,246 | JV-4<br>EV-4 | 449VP<br>5807P | $104,073<br>$117,101 | JVE-4<br>EVE-4 | $1,878<br>$1,878 | N/A<br>--- | 8VM<br>8VM |
| 300 | 12300 | 5807P | $107,589 | JV-4 | 5807P | $117,539 | JV-4 | 5807P | $123,725 | JVE-4 | $2,690 | $13,465 | 8VM |
| 350 | 12300 | 5807P | $125,653 | JV-4 | 5807P | $137,275 | JV-4 | 5807P | $144,500 | JVE-4 | $3,143 | $13,465 | 8VM |
| 400 | 12300 | 5809P | $143,603 | JV-4 | 5809P | $156,886 | JV-4 | 5809P | $165,143 | JVE-4 | $3,671 | $19,484 | 8VM |
| 450 | 12300 | 5809P | $158,451 | JV-4 | 5809P | $173,107 | JV-4 | 5809P | $182,218 | JVE-4 | $4,038 | $19,484 | 8VM |
| 500 | 12300 | 5811P | $179,505 | JV-4 | 5811P | $196,109 | JV-4 | 5811P | $206,430 | JVE-4 | $4,587 | $22,007 | 8VM |
| 600 | 11700 | 5812P | $202,840 | JV-4 | --- | --- | --- | 5812P | $233,226 | JVE-4 | $5,153 | N/A | 8VM |
| 700 | 15000 | 6812VPA | $229,209 | JV-4 | --- | --- | --- | 6812VPA | $263,590 | JVE-4 | $5,563 | N/A | 9VM |
| 800 | 15000 | 6812VPA | $259,006 | JV-4 | --- | --- | --- | 6812VPA | $297,857 | JVE-4 | $6,146 | N/A | 9VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
& Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 is standard
• NRR = Non-Reverse Ratchet
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)

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

# Three Phase Modifiable Motors
# Vertical Solid Shaft
# High Thrust - "P" Base
# Totally Enclosed Fan Cooled (TEFC)
# 8 Pole, 900 RPM

**VSS-HT**
**TEFC**
900 RPM
2300V/4160V

## APPLICATIONS:
For use on Turbine, Mix Flow and Propeller Pumps

## FEATURES:
* 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

**2300 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz.Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 125 | 11000<br>11000 | 449VP<br>5008P | 24.5<br>24.5 | $74,303<br>$84,866 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $85,446<br>$97,596 | JVE-4<br>EVE-4 | $1,955<br>$1,955 | N/A<br>--- | 8VM<br>8VM |
| 150 | 11000<br>11000 | 449VP<br>5008P | 24.5<br>24.5 | $82,873<br>$93,592 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $95,303<br>$107,631 | JVE-4<br>EVE-4 | $2,185<br>$2,185 | N/A<br>--- | 8VM<br>8VM |
| 200 | 12300 | 5807P | 30.5 | $103,540 | JV-4 | 5807P | 30.5 | $119,070 | JVE-4 | $2,230 | $13,469 | 8VM |
| 250 | 12300 | 5807P | 30.5 | $115,852 | JV-4 | 5807P | 30.5 | $133,228 | JVE-4 | $2,390 | $13,469 | 8VM |
| 300 | 12300 | 5807P | 30.5 | $131,984 | JV-4 | 5807P | 30.5 | $151,782 | JVE-4 | $2,721 | $13,469 | 8VM |
| 350 | 12300 | 5809P | 30.5 | $149,427 | JV-4 | 5809P | 30.5 | $171,840 | JVE-4 | $3,852 | $19,484 | 8VM |
| 400 | 12300 | 5809P | 30.5 | $170,775 | JV-4 | 5809P | 30.5 | $196,392 | JVE-4 | $4,385 | $19,484 | 8VM |
| 450 | 12300 | 5811P | 30.5 | $197,972 | JV-4 | 5811P | 30.5 | $227,669 | JVE-4 | $5,117 | $22,007 | 8VM |
| 500 | 12300 | 5811P | 30.5 | $219,967 | JV-4 | 5811P | 30.5 | $252,962 | JVE-4 | $5,688 | $22,007 | 8VM |
| 600 | 11700 | 5812P | 30.5 | $239,040 | JV-4 | 5812P | 30.5 | $272,898 | JVE-4 | $6,620 | N/A | 8VM |
| 700 | 15000 | 6812VPA | 36 | $257,718 | JV-4 | 6812VPA | 36 | $296,376 | JVE-4 | $7,704 | N/A | 9VM |
| 800 | 15000 | 6812VPA | 36 | $276,634 | JV-4 | 6812VPA | 36 | $318,130 | JVE-4 | $8,937 | N/A | 9VM |
| 900 | 15000 | 6812VPA | 36 | $292,064 | JV-4 | 6812VPA | 36 | $335,874 | JVE-4 | $9,301 | N/A | 9VM |
| 1000 | 15000 | 6812VPA | 36 | $307,897 | JV-4 | 6812VPA | 36 | $354,082 | JVE-4 | $10,417 | N/A | 9VM |

**4160 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz.Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150 | 11000<br>11000 | 449VP<br>5008P | 24.5<br>24.5 | $98,617<br>$112,232 | JV-4<br>EV-4 | 449VP<br>5008P | 24.5<br>24.5 | $113,411<br>$129,068 | JVE-4<br>EVE-4 | $2,185<br>$2,185 | N/A<br>--- | 8VM<br>8VM |
| 200 | 12300 | 5807P | 30.5 | $123,214 | JV-4 | 5807P | 30.5 | $141,695 | JVE-4 | $2,230 | $13,469 | 8VM |
| 250 | 12300 | 5807P | 30.5 | $135,329 | JV-4 | 5807P | 30.5 | $155,629 | JVE-4 | $2,390 | $13,469 | 8VM |
| 300 | 12300 | 5809P | 30.5 | $152,310 | JV-4 | 5809P | 30.5 | $175,157 | JVE-4 | $2,721 | $19,484 | 8VM |
| 350 | 12300 | 5809P | 30.5 | $172,455 | JV-4 | 5809P | 30.5 | $198,324 | JVE-4 | $3,852 | $19,484 | 8VM |
| 400 | 12300 | 5811P | 30.5 | $197,089 | JV-4 | 5811P | 30.5 | $226,653 | JVE-4 | $4,385 | $22,007 | 8VM |
| 450 | 12300 | 5811P | 30.5 | $221,728 | JV-4 | 5811P | 30.5 | $254,986 | JVE-4 | $5,117 | $22,007 | 8VM |
| 500 | 11700 | 5812P | 30.5 | $246,362 | JV-4 | 5812P | 30.5 | $283,317 | JVE-4 | $5,688 | N/A | 8VM |
| 600 | 11700 | 5812P | 30.5 | $250,992 | JV-4 | 5812P | 30.5 | $288,661 | JVE-4 | $6,620 | N/A | 8VM |
| 700 | 15000 | 6812VPA | 36 | $270,604 | JV-4 | 6812VPA | 36 | $320,488 | JVE-4 | $7,704 | N/A | 9VM |
| 800 | 15000 | 6812VPA | 36 | $288,005 | JV-4 | 6812VPA | 36 | $341,097 | JVE-4 | $8,937 | N/A | 9VM |
| 900 | 15000 | 6812VPA | 36 | $305,303 | JV-4 | 6812VPA | 36 | $351,098 | JVE-4 | $9,301 | N/A | 9VM |
| 1000 | 15000 | 6812VPA | 36 | $320,552 | JV-4 | 6812VPA | 36 | $368,635 | JVE-4 | $10,417 | N/A | 9VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
• NRR = Non-Reverse Ratchet

See Page M-84 For Available And Alternate BD Dimensions

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

## Three Phase Modifiable Motors
## Vertical Solid Shaft
## High Thrust - “P” Base
## Totally Enclosed Fan Cooled (TEFC)
## 10 Pole, 720 RPM

**VSS-HT**
**TEFC**
720 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)
* 1.00 Service Factor (Sine Wave Power)
* Maximum 40 Deg. C. Ambient, 3,300 Feet Altitude
* NEMA Design “B”
* 3 Phase 60 Hz

**200, 230/460, 575 Volts (&)**

| HP | Down Thrust (lbs)(#) | Standard Efficient | | | Premium Efficient | | | NRR List Adder | Adder C.L.1 Grp. D. Haz. Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | List | Type | Frame | List | Type | | | |
| 1.5 | 3400 | 213VP | $3,038 | TV-4 | 213VP | $3,697 | TVS-4 | $326 | $822 | 7VM |
| 2 | 3400 | 215VP | $3,660 | TV-4 | 215VP | $4,303 | TVS-4 | $385 | $822 | 7VM |
| 3 | 4500 | 254VP | $4,629 | TV-4 | 254VP | $5,636 | TVS-4 | $570 | $1,502 | 7VM |
| 5 | 4500 | 256VP | $6,390 | TV-4 | 256VP | $7,573 | TVS-4 | $702 | $1,502 | 7VM |
| 7.5 | 4500 | 284VP | $7,493 | TV-4 | 284VP | $8,779 | TVS-4 | $810 | $2,347 | 7VM |
| 10 | 4500 | 286VP | $8,282 | TV-4 | 286VP | $9,873 | TVS-4 | $894 | $2,347 | 7VM |
| 15 | 6000 | 324VP | $10,540 | TV-4 | 324VP | $12,244 | TVS-4 | $1,026 | $3,192 | 7VM |
| 20 | 7600 | 364VP | $12,413 | TV-4 | 364VP | $14,575 | TVS-4 | $1,202 | $4,225 | 7VM |
| 25 | 7600 | 365VP | $14,296 | TV-4 | 365VP | $16,552 | TVS-4 | $1,385 | $4,225 | 7VM |
| 30 | 9500 | 404VP | $17,113 | TV-4 | 404VP | $20,214 | TVS-4 | $1,526 | $4,930 | 7VM |
| 40 | 9500 | 405VP | $20,620 | TV-4 | 405VP | $24,357 | TVS-4 | $1,631 | $4,930 | 7VM |
| 50 | 12600 | 444VP | $23,934 | TV-4 | 444VP | $28,275 | TVS-4 | $1,854 | $6,103 | 7VM |
| 60 | 12600 | 447VP | $30,009 | TV-4 | 447VP | $35,308 | TVS-4 | $1,869 | $7,042 | 7VM |
| 75 | 12600 | 447VP | $35,714 | TV-4 | 447VP | $42,188 | TVS-4 | $1,995 | $7,042 | 7VM |
| 100 | 11900<br>11900 | 449VP<br>5008P | $62,211<br>$73,178 | JV-4<br>EV-4 | 449VP<br>5008P | $71,542<br>$84,155 | JVE-4<br>EVE-4 | $1,887<br>$1,887 | N/A<br>--- | 9VM<br>9VM |
| 125 | 11900<br>11900 | 449VP<br>5008P | $65,129<br>$79,385 | JV-4<br>EV-4 | 449VP<br>5008P | $74,899<br>$91,293 | JVE-4<br>EVE-4 | $2,014<br>$2,014 | N/A<br>--- | 9VM<br>9VM |
| 150 | 11900<br>11900 | 449VP<br>5008P | $86,559<br>$99,777 | JV-4<br>EV-4 | 449VP<br>5008P | $99,542<br>$114,474 | JVE-4<br>EVE-4 | $2,674<br>$2,674 | N/A<br>--- | 9VM<br>9VM |
| 200 | 13100 | 5807P | $117,650 | JV-4 | 5807P | $135,298 | JVE-4 | $3,718 | $13,469 | 9VM |
| 250 | 13100 | 5809P | $133,298 | JV-4 | 5809P | $153,293 | JVE-4 | $4,385 | $13,469 | 9VM |
| 300 | 13100 | 5809P | $143,556 | JV-4 | 5809P | $165,089 | JVE-4 | $5,261 | $13,469 | 9VM |
| 350 | 13100 | 5811P | $164,624 | JV-4 | 5811P | $189,319 | JVE-4 | $5,589 | $19,484 | 9VM |
| 400 | 13100 | 5811P | $189,561 | JV-4 | 5811P | $217,995 | JVE-4 | $5,918 | $19,484 | 9VM |
| 500 | 12600 | 5812P | $201,056 | JV-4 | 5812P | $231,214 | JVE-4 | $6,388 | N/A | 9VM |
| 600 | 16300 | 6812VPA | $227,193 | JV-4 | 6812VPA | $261,272 | JVE-4 | $7,730 | N/A | 9VM |
| 700 | 16300 | 6812VPA | $256,728 | JV-4 | 6812VPA | $295,237 | JVE-4 | $8,344 | N/A | 9VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
& Standard Voltages Thru 405 Frame; 444 Frame & Larger, Single Voltage 460 or 575 Standard
• NRR = Non-Reverse Ratchet

See Page M-84 For Available And Alternate BD Dimensions

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

# Three Phase Modifiable Motors
# Vertical Solid Shaft
# High Thrust - “P” Base
# Totally Enclosed Fan Cooled (TEFC)
# 10 Pole, 720 RPM

**VSS-HT**
**TEFC**
720 RPM
2300V/4160V

## APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

## FEATURES:

* 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

**2300 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz.Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150 | 13100 | 5807P | 30.5 | $124,810 | JV-4 | 5807P | 30.5 | $143,532 | JVE-4 | $2,390 | $13,469 | 9VM |
| 200 | 13100 | 5809P | 30.5 | $140,005 | JV-4 | 5809P | 30.5 | $161,006 | JVE-4 | $2,721 | $19,484 | 9VM |
| 250 | 13100 | 5809P | 30.5 | $157,958 | JV-4 | 5809P | 30.5 | $181,652 | JVE-4 | $3,852 | $19,484 | 9VM |
| 300 | 13100 | 5811P | 30.5 | $169,941 | JV-4 | 5811P | 30.5 | $195,432 | JVE-4 | $4,385 | $22,007 | 9VM |
| 350 | 13100 | 5811P | 30.5 | $195,080 | JV-4 | 5811P | 30.5 | $224,342 | JVE-4 | $5,117 | $22,007 | 9VM |
| 400 | 12600 | 5812P | 30.5 | $221,784 | JV-4 | 5812P | 30.5 | $255,052 | JVE-4 | $5,688 | N/A | 9VM |
| 450 | 12600 | 5812P | 30.5 | $257,364 | JV-4 | 5812P | 30.5 | $295,968 | JVE-4 | $6,620 | N/A | 9VM |
| 500 | 12600 | 5812P | 30.5 | $285,957 | JV-4 | 5812P | 30.5 | $328,851 | JVE-4 | $7,613 | N/A | 9VM |
| 600 | 12600 | 5812P | 30.5 | $310,752 | JV-4 | 5812P | 30.5 | $357,365 | JVE-4 | $8,755 | N/A | 9VM |
| 700 | 16300 | 6812PA | 36 | $335,033 | JV-4 | 6812PA | 36 | $385,288 | JVE-4 | $10,068 | N/A | 9VM |
| 800 | 16300 | 6812PA | 36 | $359,625 | JV-4 | 6812PA | 36 | $413,569 | JVE-4 | $11,578 | N/A | 9VM |

**4160 Volt**

| HP | Down Thrust (lbs) (#) | Standard Efficient | | | | Premium Efficient | | | | NRR List Adder | Adder C.L.1 Grp. D. Haz.Loc. | Disc. Sym |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Frame | BD (in) | List | Type | Frame | BD(in) | List | Type | | | |
| 150 | 13100 | 5807P | 30.5 | $133,133 | JV-4 | 5807P | 30.5 | $153,103 | JVE-4 | $2,390 | $13,469 | 9VM |
| 200 | 13100 | 5809P | 30.5 | $166,606 | JV-4 | 5809P | 30.5 | $191,597 | JVE-4 | $2,721 | $19,484 | 9VM |
| 250 | 13100 | 5809P | 30.5 | $187,970 | JV-4 | 5809P | 30.5 | $216,166 | JVE-4 | $3,852 | $19,484 | 9VM |
| 300 | 13100 | 5811P | 30.5 | $202,230 | JV-4 | 5811P | 30.5 | $232,565 | JVE-4 | $4,385 | $22,007 | 9VM |
| 350 | 13100 | 5811P | 30.5 | $232,145 | JV-4 | 5811P | 30.5 | $266,967 | JVE-4 | $5,117 | $22,007 | 9VM |
| 400 | 12600 | 5812P | 30.5 | $263,923 | JV-4 | 5812P | 30.5 | $303,511 | JVE-4 | $5,688 | N/A | 9VM |
| 450 | 12600 | 5812P | 30.5 | $306,263 | JV-4 | 5812P | 30.5 | $352,203 | JVE-4 | $6,620 | N/A | 9VM |
| 500 | 12600 | 5812P | 30.5 | $340,289 | JV-4 | 5812P | 30.5 | $391,332 | JVE-4 | $7,613 | N/A | 9VM |
| 600 | 12600 | 5812P | 30.5 | $369,795 | JV-4 | 5812P | 30.5 | $425,264 | JVE-4 | $8,755 | N/A | 9VM |
| 700 | 16300 | 6812PA | 36 | $398,690 | JV-4 | 6812PA | 36 | $458,494 | JVE-4 | $10,068 | N/A | 9VM |
| 800 | 16300 | 6812PA | 36 | $427,954 | JV-4 | 6812PA | 36 | $492,147 | JVE-4 | $11,578 | N/A | 9VM |

# Momentary Upthrust Capacity is 30% of Standard High Thrust Design
• NRR = Non-Reverse Ratchet

See Page M-84 For Available And Alternate BD Dimensions

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