



### Product Overview

The Zenith EP M8200 series vertical hollow shaft motors are built from premium, upgraded materials with industry leading insulation design. The rugged construction with inverter-duty capability makes it an ideal solution for a broad range of challenging pump applications.

Featuring an advanced design and built by state-of-the-art manufacturing process, the Zenith EP VHS motors provide extremely low vibration and temperature rise. With optional upgrades such as double thrust bearings and higher insulation class, our motors can perform well even in the most strenuous and extreme environment conditions.

### Key Features

- NEMA premium efficiency
- Ball-type non-reverse ratchet assembly
- Extra high thrust capability
- NEMA standard inverter duty insulation system
- Built-in protection including thermistors and space heaters
- Standard angular contact bearing / Optional double thrust bearing
- Customizable design features available for extreme working environment (high temp, high elevation, etc.)

### Applications

- Water / wastewater
- Groundwater / irrigation
- Pulp and paper mills
- Industrial / process water
- Municipalities
- Well drilling





# ZENITH EP

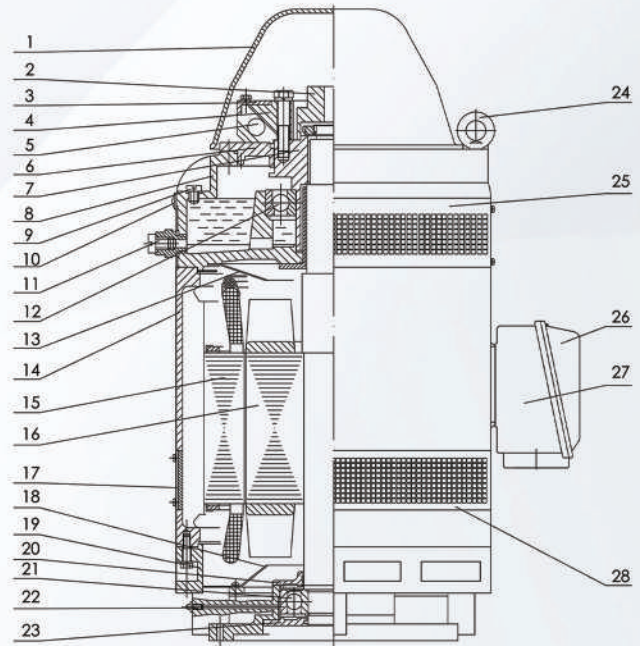
## M8200 SERIES Vertical Hollow Shaft Motor



### Technical Specifications

Power range	15 - 500HP
Voltage Range	230V, 230V / 460V , 460 V
Frame Size	254TP to 5008TP
Insulation	VPI
Temperature Rise	Class F @ 1.15 S.F.
Enclosure Rating	IP23 WP-1
Operation Temp	-10 - 40 °C / 14 - 104 °F
Efficiency	Premium Efficiency
Certification	UL

- |                           |                                  |
|---------------------------|----------------------------------|
| 1. Head Cap               | 14. Frame                        |
| 2. Coupling               | 15. Stator                       |
| 3. Ball Retaining Ring    | 16. Rotor                        |
| 4. Rotating Ratchet       | 17. Grille (Frame)               |
| 5. Steel Balls            | 18. Lower Air Deflector          |
| 6. Stationary Ratchet     | 19. Lower Bracket                |
| 7. Bearing Mounting       | 20. Bearing Cap                  |
| 8. Upper Bracket          | 21. Ball Bearing (Lower)         |
| 9. Oil Fill Plug          | 22. Grease Fill and Grease Drain |
| 10. Oil Viewing Window    | 23. Lower Bearing Cap            |
| 11. Oil Drain Plug        | 24. Lifting Ring Screws          |
| 12. Thrust Bearing        | 25. Grille (Upper Bracket)       |
| 13. Air Deflector (Upper) | 26. Outlet Box Cover             |



### Quality

- UL certified for both construction and efficiency levels
- UL approved insulation system
- DOE certified efficiency

### Durability

- Oversized conduit box
- Cast iron construction
- Oversized bearing
- Stainless steel screens

### Protection

- Sensitive thermistors
- Space heaters
- Forged ball-type non-reverse ratchet
- Insulated upper thrust bearings