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# Medium Voltage Motors

**Model No:** 450HVLF6028
**Catalog No:** R9431

Medium Voltage Motor, 1500 HP, 3 Ph, 60 Hz, 2300/4000 V, 1800 RPM, 450 Frame, WPI

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# Product Information Packet: Model No: 450HVLF6028, Catalog No: R9431  Medium Voltage Motor, 1500 HP, 3 Ph, 60 Hz, 2300/4000 V, 1800 RPM, 450 Frame, WPI

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **1500 Hp** |
| Output KW | **1120.0 kW** | Voltage | **2300/4000 V** |
| Speed | **1788 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **450** |
| Enclosure | **Weather Protected 1** | Thermal Protection | **No Protection** |
| Efficiency | **96.2 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **216.0/124.0 A** |
| Power Factor | **90** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **G** | Drive End Bearing Size | **6326** |
| Opp Drive End Bearing Size | **6326** | UL | **No** |
| CSA | **N** | CE | **N** |
| IP Code | **23** | | |

## Technical Specifications

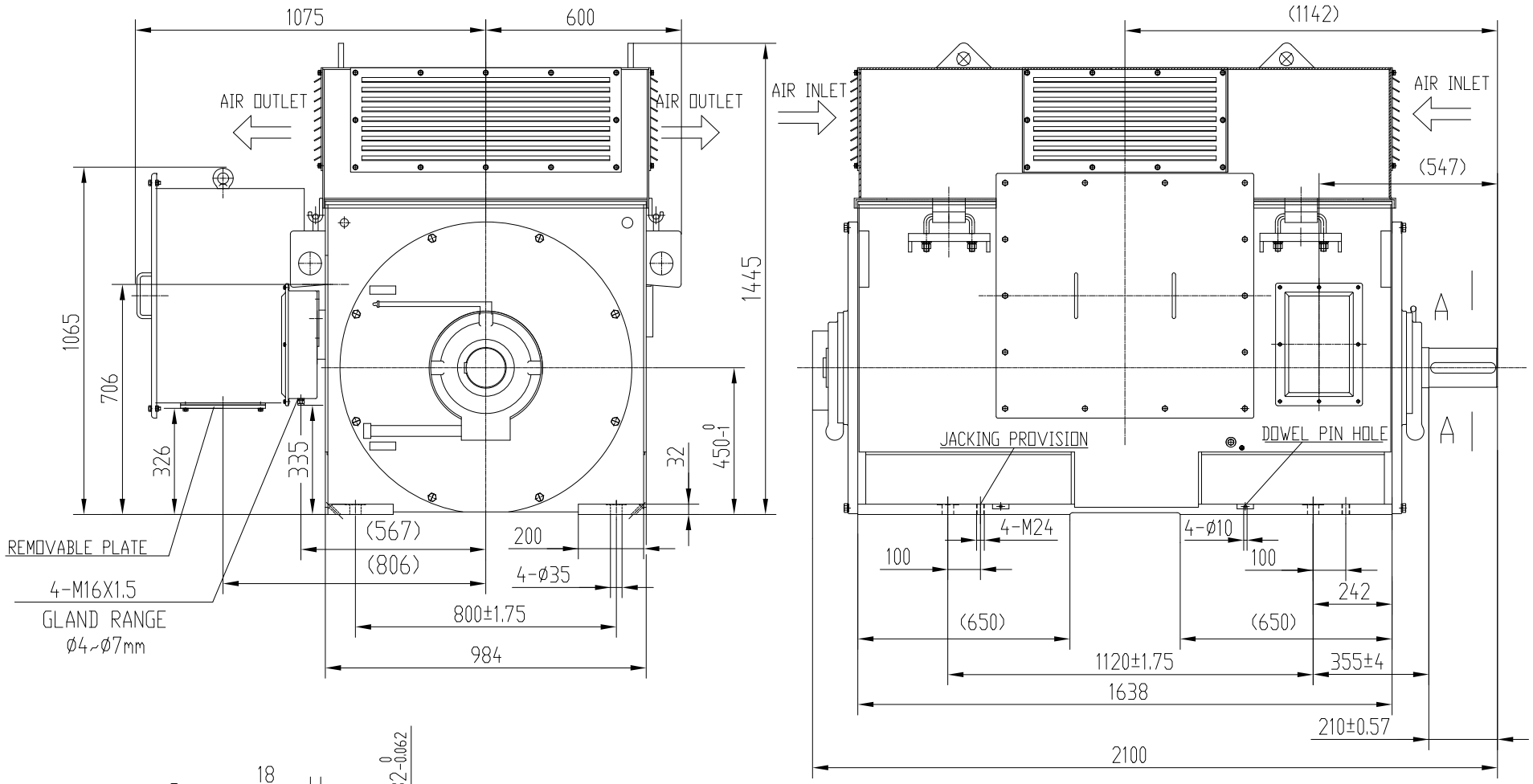
| | | | |
|---|---|---|---|
| Electrical Type | **Bar Rotator Induction Run** | Starting Method | **Across The Line** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **.22 O** | Mounting | **B3** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Fabricated Steel** |
| Shaft Type | **IEC** | Assembly/Box Mounting | **F1/F2 Capable** |

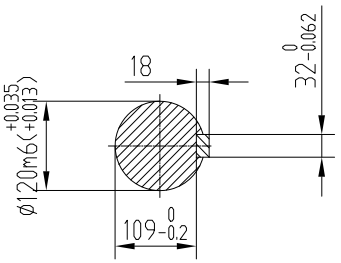
## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7304AD** | Outline Drawing | **0245001121** |

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|---|---|---|
| DRAWING REVISION: B | REVISION BY: SV | REV DATE/ © DATE: 05/19/2026 |
| REQUEST NUMBER: CR-0026322 | APPROVED BY: RMS | DATE: 05/19/2026 |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | |

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TOLERANCES (EXCEPT AS NOTED):

| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±3] | ±7' 30" |
| .XX | ±0.03 | [±0.8] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP
EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200/ INCH 5.1/ mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | PJ |
| DATE | 04/11/2018 |
| APPROVED BY | |
| DATE | |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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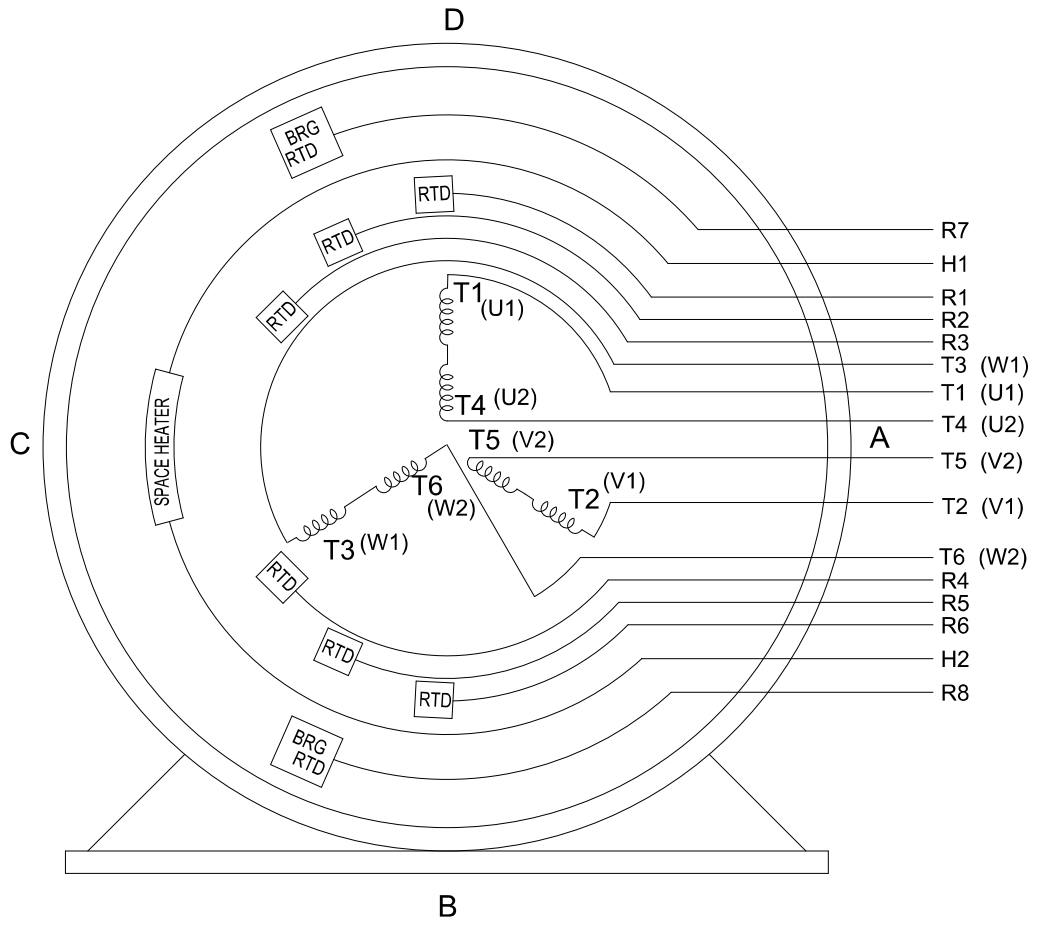
DESCRIPTION: H450-4 WPI

MATERIAL | PROCESS/FINISH

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| B | 0245001121 | 1 OF 1 |

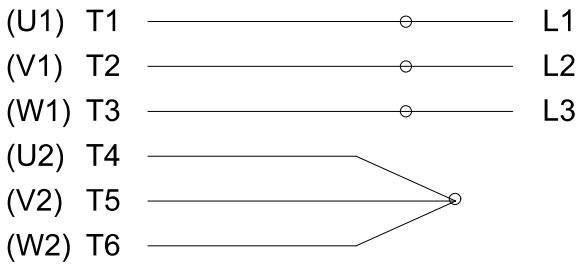
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THREE PHASE - DUAL VOLTAGE
WITH 6 RTD'S 2 PER PHASE AND SPACE HEATER

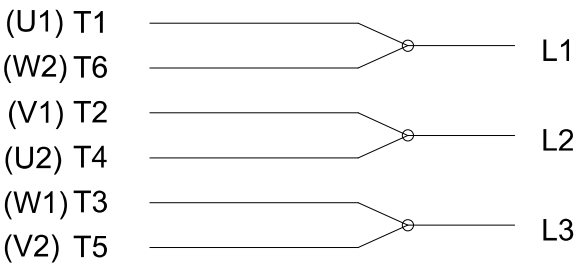



*VIEW OF TERMINAL END*

## HIGH VOLTAGE "Y" CONNECTION




## LOW VOLTAGE - DELTA




| DRAWING REVISION | REVISION BY | REV DATE/ © DATE |
|---|---|---|
| E | SV | 05/12/2026 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0026249 | RMS | 05/12/2026 |

REQUEST NUMBER DESCRIPTION
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TOLERANCES (EXCEPT AS NOTED):

| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±3] | ±7' 30" |
| .XX | ±0.02 | [±0.5] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| DRAWN BY | |
|---|---|
| KL | |
| DATE | |
| 09/03/1999 | |
| APPROVED BY | |
| DJK | |
| DATE | |
| 09/03/1999 | |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
# CONNECTION DIAGRAM
THREE PHASE VOLTAG-BRG, STATOR RTD'S,SPACE HTR

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 4 of 4 EE7304AD | 1 OF 1 |