

# Elevator Duty Motors

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**Model No:** 286TTDBD7025

**Catalog No:** GTE4040

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Elevator Duty Motor, 30 & 40 HP, 3 Ph, 60 & 60 Hz, 200 & 200 V, 1800 RPM, 286T Frame, DP

**Product Information Packet: Model No: 286TTDBD7025, Catalog No: GTE4040 Elevator Duty Motor, 30 & 40 HP, 3 Ph, 60 & 60 Hz, 200 & 200 V, 1800 RPM, 286T Frame, DP**

### Nameplate Specifications

|                            |                   |                        |                    |
|----------------------------|-------------------|------------------------|--------------------|
| Phase                      | 3                 | Output HP              | 30 & 40 Hp         |
| Output KW                  | 22.4 & 30.0 kW    | Voltage                | 200 & 200 V        |
| Speed                      | 1775 & 1775 r/min | Synchronous RPM        | 1800 & 1800 r/min  |
| Service Factor             | 1.00 & 1.00       | Frame                  | 286T               |
| Enclosure                  | Drip Proof        | Thermal Protection     | No Protection      |
| Efficiency                 | 93 & 91.7 %       | Ambient Temperature    | 40 °C              |
| Frequency                  | 60 & 60 Hz        | Current                | 83 & 110 A         |
| Power Factor               | 84                | Duty                   | 120/80 Starts/Hour |
| Insulation Class           | F                 | Design Code            | B                  |
| KVA Code                   | F                 | Drive End Bearing Size | 6311               |
| Opp Drive End Bearing Size | 6210              | UL                     | Recognized         |
| CSA                        | Y                 | CE                     | Y                  |
| IP Code                    | 22                | Number of Speeds       | 1                  |

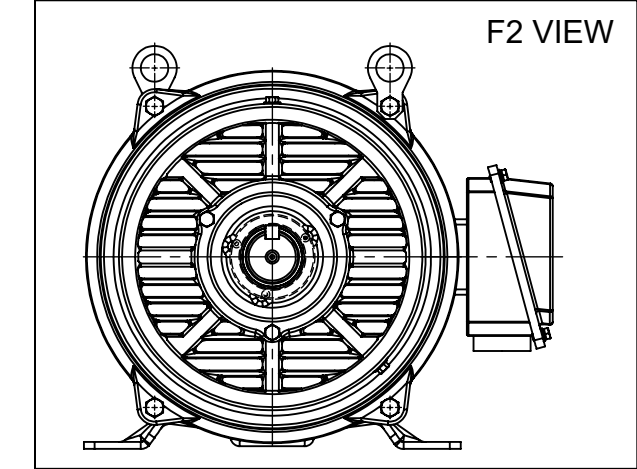
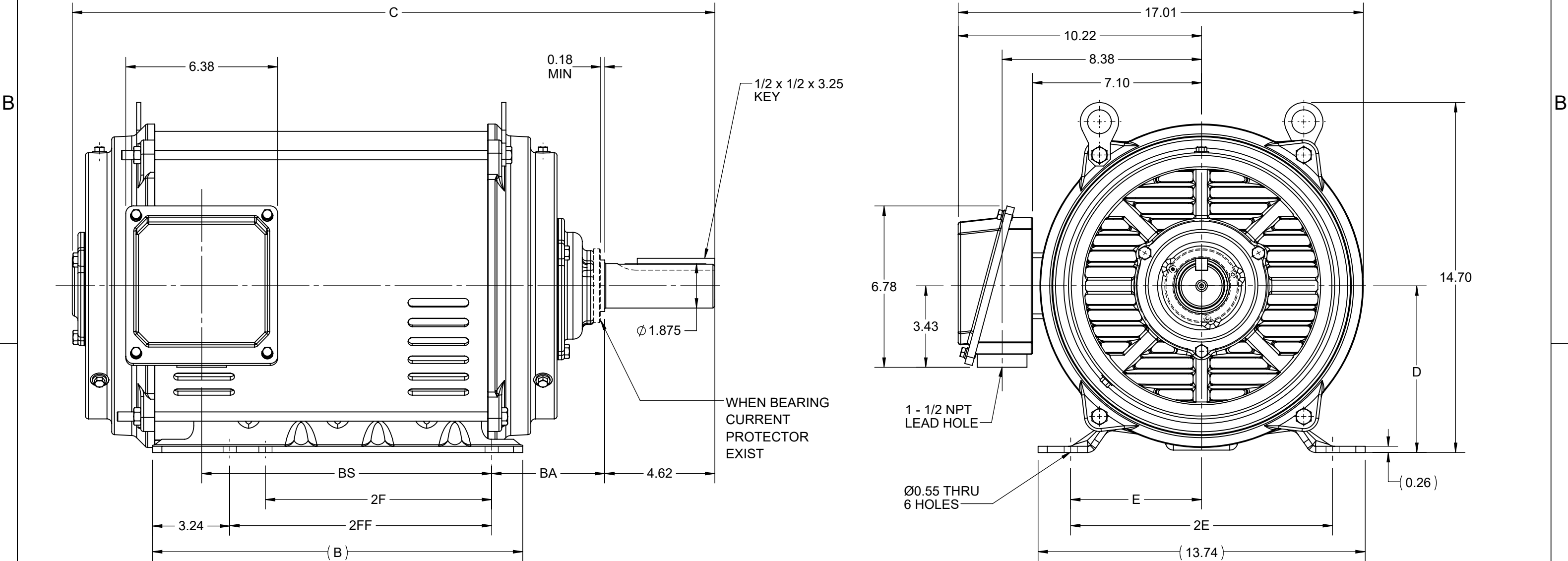
### Technical Specifications

|                       |                             |                       |                     |
|-----------------------|-----------------------------|-----------------------|---------------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Wye Start Delta Run |
| Poles                 | 4                           | Rotation              | Reversible          |
| Resistance Main       | .32 O                       | Mounting              | Rigid Base          |
| Motor Orientation     | Horizontal                  | Drive End Bearing     | Ball                |
| Opp Drive End Bearing | Ball                        | Frame Material        | Rolled Steel        |
| Shaft Type            | T                           | Assembly/Box Mounting | F1/F2 Capable       |

### Drawings

|                    |        |                 |              |
|--------------------|--------|-----------------|--------------|
| Connection Drawing | EE7340 | Outline Drawing | SS620687-200 |
|--------------------|--------|-----------------|--------------|

| 4        |       |       |      | 3    |       |      |       | 2    |       |          | 1     |
|----------|-------|-------|------|------|-------|------|-------|------|-------|----------|-------|
| DASH NO. | B     | C     | D    | E    | 2E    | 2F   | 2FF   | BA   | BS    | MOUNTING | FRAME |
| 100      | 15.55 | 25.60 | 7.00 | 5.50 | 11.00 | 9.50 | 11.00 | 4.75 | 10.80 | F1 OR F2 | 284T  |
| 200      |       | 26.98 |      |      |       |      |       |      | 12.18 |          | 286T  |



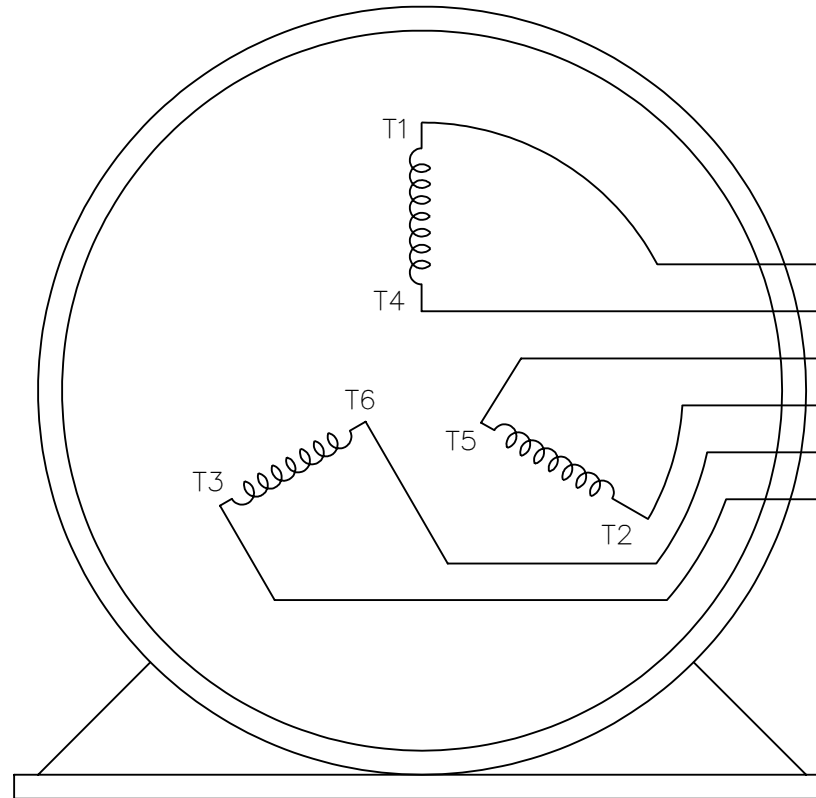
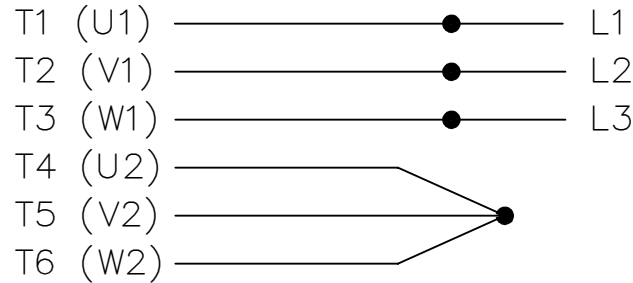
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| DRAWING REVISION<br>F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REVISION BY<br>SB  | REV DATE/© DATE<br>07/22/2025 |
| REQUEST NUMBER<br>CR-0023556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APPROVED BY<br>SBD | DATE<br>07/22/2025            |
| REQUEST NUMBER DESCRIPTION<br>DRAWING TITLE BLOCK UPDATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                               |
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PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

|                                                                                       |  |                                                                      |                            |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|----------------------------|
| DRAWN BY<br>XZ                                                                        |  | <div>marathon™</div>                                                 |                            |
| DATE<br>17/04/2017                                                                    |  |                                                                      |                            |
| APPROVED BY                                                                           |  | DESCRIPTION<br><div>OUTLINE</div> <div>284/286T FR NEMA ODP RS</div> |                            |
| DATE                                                                                  |  |                                                                      |                            |
| REFERENCE                                                                             |  | MATERIAL                                                             | PROCESS/FINISH             |
| THIRD ANGLE<br>PROJECTION                                                             |  | SIZE<br>B                                                            | DRAWING NUMBER<br>SS620687 |
|  |  |                                                                      | SHEET<br>1 OF 1            |

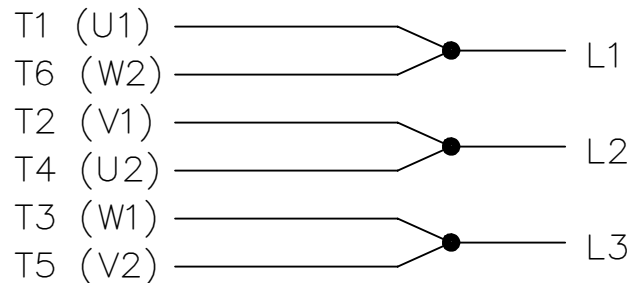
# THREE PHASE WYE START DELTA RUN

START



T1 (U1)  
T4 (U2)  
T5 (V2)  
T2 (V1)  
T6 (W2)  
T3 (W1)

RUN



VIEW OF TERMINAL END

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                               |                                                                                      |                           |                                                                                       |                |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|--------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------|----------------|--------------------------|
| DRAWING REVISION<br>G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REVISION BY<br>SB  | REV DATE/© DATE<br>08/04/2025 | PRIMARY DIMENSIONS ARE INCH<br>mm DIMENSIONS IN [BRACKETS]<br>ARE FOR REFERENCE ONLY | DRAWN BY<br>LZ            | <div>marathon™</div>                                                                  |                |                          |
| REQUEST NUMBER<br>CR-0023654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APPROVED BY<br>SBD | DATE<br>08/04/2025            |                                                                                      | DATE<br>01-06-1994        |                                                                                       |                |                          |
| REQUEST NUMBER DESCRIPTION<br>DRAWING TITLE BLOCK UPDATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                               |                                                                                      | APPROVED BY<br>GK         | DESCRIPTION<br>CONNECTION DIAGRAM<br>3 Ø - WYE START DELTA RUN                        |                |                          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                               |                                                                                      | REFERENCE                 | MATERIAL                                                                              | PROCESS/FINISH |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                               |                                                                                      | THIRD ANGLE<br>PROJECTION |  | SIZE<br>A      | DRAWING NUMBER<br>EE7340 |