

# PRODUCT INFORMATION PACKET



Model No: 170002.00

Catalog No: 170002.00

General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1200 & 1000 RPM,  
324T Frame, DP



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## Nameplate Specifications

|                        |                        |                            |                         |
|------------------------|------------------------|----------------------------|-------------------------|
| Phase                  | 3                      | Output HP                  | 25 & 20 Hp              |
| Output KW              | 18.7 & 14.9 kW         | Voltage                    | 208-230/460 & 190/380 V |
| Speed                  | 1190 & 990 rpm         | Service Factor             | 1.15 & 1.15             |
| Frame                  | 324T                   | Enclosure                  | Drip Proof              |
| Thermal Protection     | No Protection          | Efficiency                 | 93 %                    |
| Ambient Temperature    | 40 °C                  | Frequency                  | 60 & 50 Hz              |
| Current                | 72-67/33.5 & 65/32.5 A | Power Factor               | 75                      |
| Duty                   | Continuous             | Insulation Class           | F                       |
| Design Code            | B                      | KVA Code                   | G                       |
| Drive End Bearing Size | 6312                   | Opp Drive End Bearing Size | 6212                    |
| UL                     | Recognized             | CSA                        | Y                       |
| CE                     | Y                      | IP Code                    | 23                      |
| Number of Speeds       | 1                      |                            |                         |

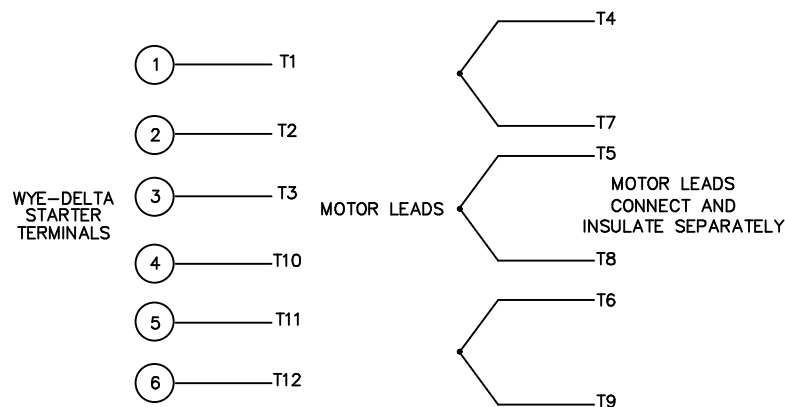
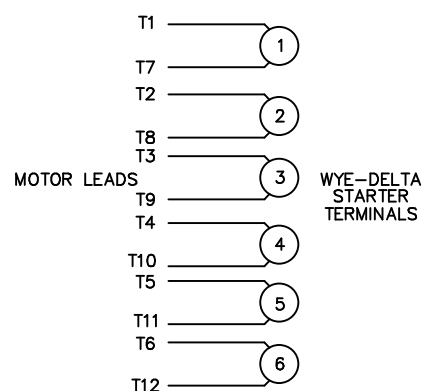
## Technical Specifications

|                       |                              |                   |                  |
|-----------------------|------------------------------|-------------------|------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method   | Line Or Inverter |
| Poles                 | 6                            | Rotation          | Reversible       |
| Resistance Main       | .232 Ohms                    | Mounting          | Rigid Base       |
| Motor Orientation     | Horizontal                   | Drive End Bearing | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material    | Cast Iron        |
| Shaft Type            | T                            | Overall Length    | 26.02 in         |
| Shaft Diameter        | 2.125 in                     | Shaft Extension   | 5.25 in          |
| Assembly/Box Mounting | F1/F2 CAPABLE                |                   |                  |
| Connection Drawing    | 004172.01                    | Outline Drawing   | 16955460         |

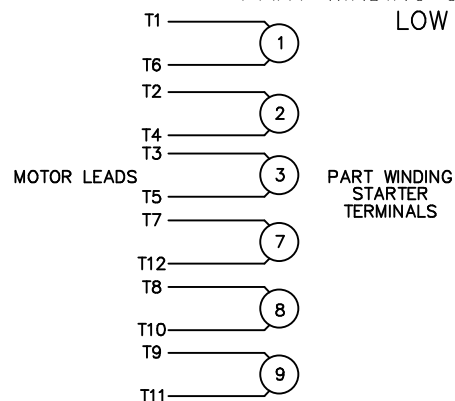
## WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

## LOW VOLTAGE CONNECTION

## HIGH VOLTAGE CONNECTION



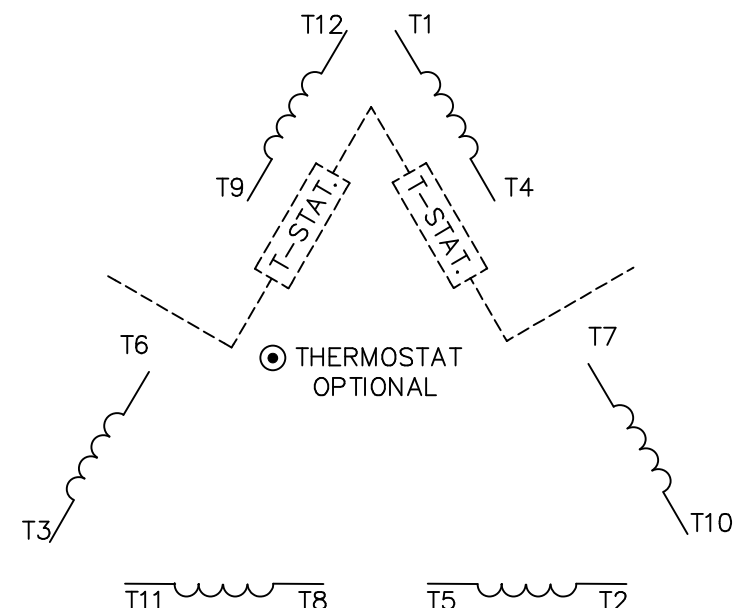
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

## LINE LEADS



## ACROSS THE LINE START &amp; RUN

|           | LINE 1          | LINE 2          | LINE 3          | JOIN & INSULATE SEPARATELY |
|-----------|-----------------|-----------------|-----------------|----------------------------|
| HIGH VOLT | T1,T12          | T2,T10          | T3,T11          | (T4,T7) (T5,T8) (T6,T9)    |
| LOW VOLT  | T1,T6<br>T7,T12 | T2,T4<br>T8,T10 | T3,T5<br>T9,T11 |                            |

TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2"



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

DRAWN WLW 09/08/77

CHK RPB 09/12/77

APPD JCW 09/12/77

SCALE 1=1

REF

FMF

PREV

| NO. | REVISION                                | BY & DATE    | CHK   | ANG    |
|-----|---|--------------|-------|--------|
| 03  | REV'D LOW VOLTAGE CONN. LEADS PER ELEC. | BJB 06/07/00 | .XX   | ±.01   |
| 02  | ADDED T-STAT. NOTES PER ELECTRICAL      | KMM 06/02/98 | .XXX  | ±.005  |
| 01  | REDRAWN TO CAD                          | DBT 06/02/97 | .XXXX | ±.0005 |

TITLE DELTA - WYE CONNECTION DIAGRAM

MAT'L.

FINISH

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RFP

DIST

CAD FILE 00417201

SIZE

A

DRAWING NO.

004172-01

REV.

03