

# PRODUCT INFORMATION PACKET



Model No: 170215.00  
Catalog No: 170215.00  
Obsolete replaced by 254TTFC6080 - 7.5 HP 1200 575 TEFC 254T PREM EFF  
General Purpose Motors



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### Nameplate Specifications

|                        |            |                            |                             |
|------------------------|------------|----------------------------|-----------------------------|
| Output HP              | 7.50 Hp    | Output KW                  | 5.6 kW                      |
| Frequency              | 60 Hz      | Voltage                    | 575 V                       |
| Current                | 8.9 A      | Speed                      | 1185 rpm                    |
| Service Factor         | 1.15       | Phase                      | 3                           |
| Efficiency             | 91.7 %     | Power Factor               | 70                          |
| Duty                   | Continuous | Insulation Class           | F                           |
| Design Code            | B          | KVA Code                   | H                           |
| Frame                  | 254T       | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No         | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6309       | Opp Drive End Bearing Size | 6308                        |
| UL                     | Recognized | CSA                        | Y                           |
| CE                     | Y          | IP Code                    | 43                          |
| Number of Speeds       | 1          |                            |                             |

### Technical Specifications

|                   |                             |                       |                     |
|-------------------|-----------------------------|-----------------------|---------------------|
| Electrical Type   | Squirrel Cage Induction Run | Starting Method       | Wye Start Delta Run |
| Poles             | 6                           | Rotation              | Reversible          |
| Mounting          | Rigid Base                  | Motor Orientation     | Horizontal          |
| Drive End Bearing | Ball                        | Opp Drive End Bearing | Ball                |
| Frame Material    | Cast Iron                   | Shaft Type            | T                   |
| Overall Length    | 23.19 in                    | Shaft Diameter        | 1.625 in            |
| Shaft Extension   | 4 in                        | Assembly/Box Mounting | F1/F2 CAPABLE       |
| Outline Drawing   | 16953860-254T               | Connection Drawing    | 005190.01           |

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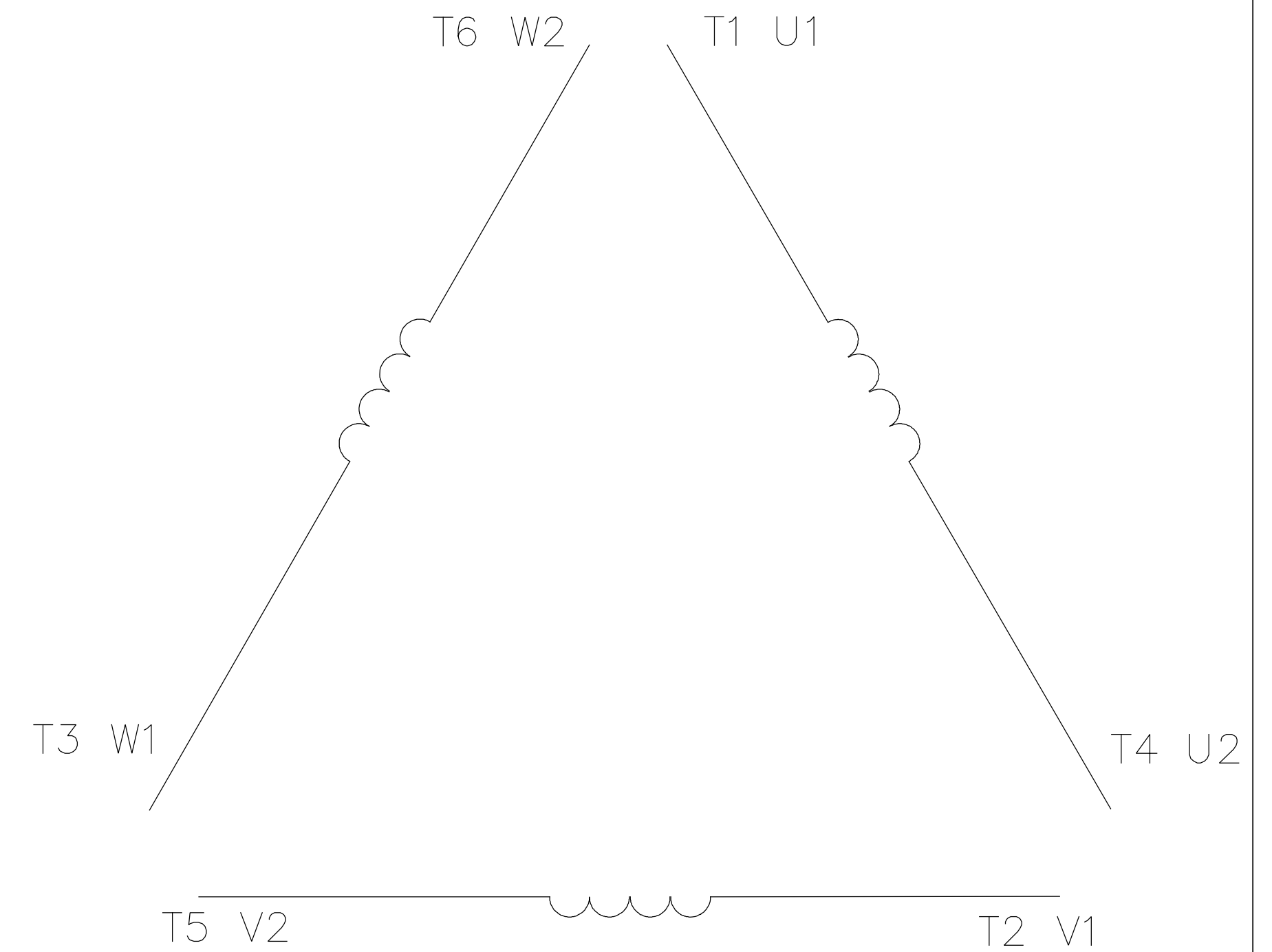


| FRAME | "C"   | "B"   | "BV" |
|-------|-------|-------|------|
| 254T  | 23.19 | 10.25 | 8.19 |
| 256T  | 24.92 | 12.00 | 9.06 |

|   |                                  |            |                                       |        |        |                             |  |             |
|---|----------------------------------|------------|---------------------------------------|--------|--------|-----------------------------|--|-------------|
|   |                                  |            | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |        | LEESON ELECTRIC CORPORATION |  |             |
|   |                                  |            | DEC.                                  | INCHES | METRIC |                             |  |             |
|   |                                  |            | .X                                    | ±.1    | ±2.5   | DRAWN DRZ 05/22/01          | TITLE OUTLINE - 250 FRAME<br>TEFC - RIGID, NEW CON-BOX |             |
|   |                                  |            | .XX                                   | ±.03   | ±.76   | APPR.                       |  |             |
| 01  | REDRAWN TO CURRENT CAD STANDARDS | CJK 8/3/01 | .XXX                                  | ±.005  | ±.127  | R.F.P.                      | MAT'L CAST IRON  |             |
| NO.   | REVISION                         | BY & DATE  | CHK'D.                                | .XXXX  | ±.0005 | ±.0127                      | SCALE  | 5=16        |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE. THIS PRINT |                                  |            | FRACTIONS                             | ±1/64  | REF.   | FINISH                      | REV.   | DRAWING NO. |
|   |                                  |            | ANGLES                                | ±1/2°  | FMF    |                             | 01   | 169538-60   |



A diagram of a multi-ported device. On the left, there are six ports labeled 'C'. On the right, there are six pairs of ports labeled 'T1 U1', 'T2 V1', 'T3 W1', 'T4 U2', 'T5 V2', and 'T6 W2'. A curved line separates the 'C' ports from the 'T' and 'U/V/W' ports.



|                | L1                 | L2                 | L3                 | JOIN                     |
|----------------|--------------------|--------------------|--------------------|--------------------------|
| START<br>(WYE) | T1<br>U1           | T2<br>V1           | T3<br>U2           | (T4,T5,T6)<br>(U2,V2,W2) |
| RUN<br>(DELTA) | (T1,T6)<br>(U1,W2) | (T2,T4)<br>(V1,U2) | (T3,T5)<br>(W1,V2) |                          |

|   |                                    |     |           |                                       |         |                                    |   |           |                          |
|---|------------------------------------|-----|-----------|---------------------------------------|---------|------------------------------------|---|-----------|--------------------------|
|   |                                    |     |           | TOLERANCES UNLESS OTHERWISE SPECIFIED |         | <b>LEESON</b> ELECTRIC CORPORATION |   |           |                          |
|   |                                    |     |           |                                       |         |                                    |   |           |                          |
| 04  | ADDED MAT'L (CWLE) PER ECO-0168542 | DS  | 6/10/2019 | DECIMALS                              |         |                                    |   |           |                          |
| 03  | ADDED IEC DESIGNATIONS             | MOL | 4/27/2012 | .00                                   | ± .01   | DRAWN PG 05/07/82                  | EXT. WIRING DIAGRAM<br>STAR START – DELTA RUN                           |           |                          |
| 02  | REMOVED OBSOLETE STATUS            | KJH | 6/28/99   | .000                                  | ± .005  | CH'K'D. TEM                        |   |           |                          |
| 01  | REDRAWN ON CAD                     | DBT | 05/30/97  | .0000                                 | ± .0005 | APPR. 05/07/82                     | MAT'L. Y-CONNECTED START (CWLE)<br>DELTA CONNECTED RUN – SINGLE VOLTAGE |           |                          |
| NO.   | REVISION                           | BY  | DATE      | FRACTIONS                             | ± 1/64  | SCALE 1=1                          |   |           |                          |
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|   |                                    |     |           | INCH/MM                               |         | FMF ELECTRO POWER                  |   |           |                          |