

# PRODUCT INFORMATION PACKET



Model No: C145T17FC127A

Catalog No: 122252.00

122252.00..1.5HP..1750RPM.145TC.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.C  
FACE.C145T17FC127.....BRAKEMOTOR.T-STATS.....

Brake



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## Nameplate Specifications

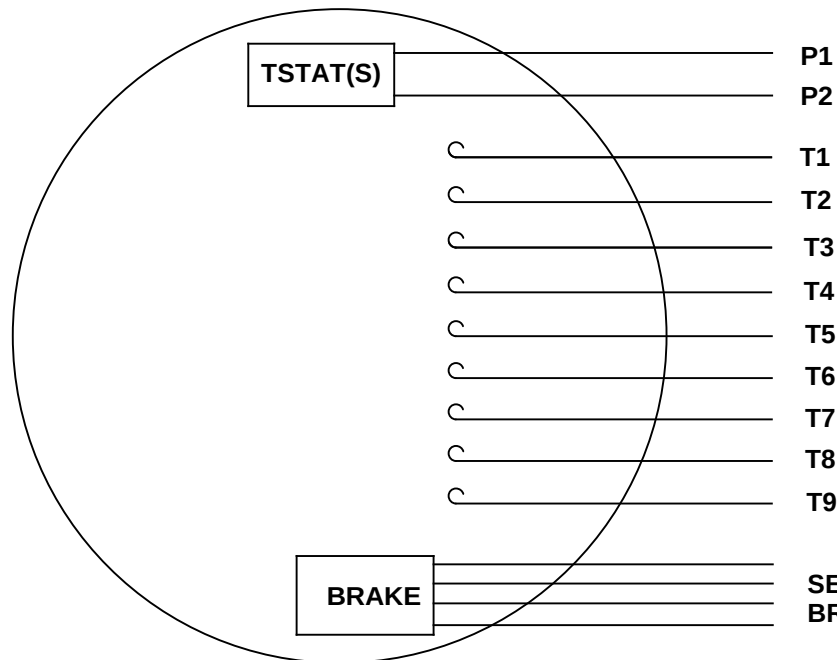
|                            |                             |                        |               |
|----------------------------|-----------------------------|------------------------|---------------|
| Output HP                  | 1.50 Hp                     | Output KW              | 1.1 kW        |
| Frequency                  | 60 Hz                       | Voltage                | 208-230/460 V |
| Current                    | 4.6-4.8/2.4 A               | Speed                  | 1750 rpm      |
| Service Factor             | 1.15                        | Phase                  | 3             |
| Efficiency                 | 86.5 %                      | Duty                   | Continuous    |
| Insulation Class           | F                           | Design Code            | C             |
| KVA Code                   | L                           | Frame                  | 145TC         |
| Enclosure                  | Totally Enclosed Fan Cooled | Overload Protector     | No            |
| Ambient Temperature        | 40 °C                       | Drive End Bearing Size | 6205          |
| Opp Drive End Bearing Size | 6203                        | UL                     | Recognized    |
| CSA                        | Y                           | CE                     | N             |
| IP Code                    | 43                          |                        |               |

## Technical Specifications

|                       |                             |                       |                 |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Across The Line |
| Poles                 | 4                           | Rotation              | Reversible      |
| Mounting              | Round                       | Motor Orientation     | HORIZONTAL      |
| Drive End Bearing     | BALL                        | Opp Drive End Bearing | BALL            |
| Frame Material        | Rolled Steel                | Shaft Type            | NEMA 56         |
| Overall Length        | 18.66 in                    | Frame Length          | 8.00 in         |
| Shaft Diameter        | 0.875 in                    | Shaft Extension       | 2 in            |
| Assembly/Box Mounting | F1 ONLY                     |                       |                 |
| Outline Drawing       | 028845-800                  | Connection Diagram    | 005010.28       |



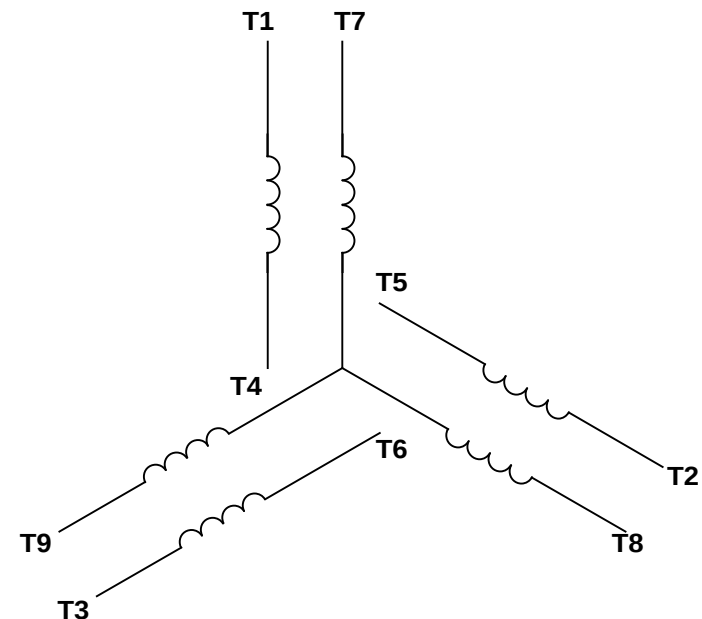
VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



P1  
P2  
T1  
T2  
T3  
T4  
T5  
T6  
T7  
T8  
T9

SEE TABLE FOR  
BRAKE CONNECTIONS

## LINE LEADS



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| BRAKE CONNECTION |                    |                    |                      |                      |                        |                       |
|------------------|--------------------|--------------------|----------------------|----------------------|------------------------|-----------------------|
| VOLTAGE          | STERNS BRAKE       |                    |                      | DINGS BRAKE          |                        |                       |
|                  | L1                 | L2                 | Join                 | L1                   | L2                     | Join                  |
| HIGH             | 1(RED)             | 2(RED)             | 3(BLACK)<br>4(BLACK) | 2(BLACK)             | 4(YELLOW)              | 1(YELLOW)<br>3(BLACK) |
| LOW              | 1(RED)<br>3(BLACK) | 2(RED)<br>4(BLACK) | -----                | 2(BLACK)<br>3(BLACK) | 1(YELLOW)<br>4(YELLOW) | -----                 |

| VOLTAGE | L1     | L2     | L3     | JOIN &<br>INSULATE               |
|---------|--------|--------|--------|----------------------------------|
| HIGH    | T1     | T2     | T3     | (T4, T7)<br>(T5, T8)<br>(T6, T9) |
| LOW     | T1, T7 | T2, T8 | T3, T9 | T4, T5, T6                       |

|                           |                       |              |                            |                                |                                                                                                                                            |                                |
|---------------------------|-----------------------|--------------|----------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                           |                       |              |                            | TOLERANCES<br>UNLESS SPECIFIED |  <b>ELECTRIC MOTORS<br/>GEARMOTORS<br/>AND DRIVES</b> | DRAWN RDW 09/14/99             |
|                           |                       |              |                            | DEC INCHES                     |                                                                                                                                            | CHK                            |
|                           |                       |              |                            | .X ±.1                         |                                                                                                                                            | APPR                           |
|                           |                       |              |                            | .XX ±.01                       |                                                                                                                                            | SCALE 1:1                      |
|                           |                       |              |                            | .XXX ±.005                     | TITLE EXTERNAL WIRING DIAGRAM<br>3 PHASE W/O PROTECTOR                                                                                     | REF 005010-15                  |
| --                        | REDRAWN IN SOLIDWORKS | VJB 02/08/11 |                            | .XXXX ±.0005                   | MAT'L DECAL - 004014 DECAL - 080088                                                                                                        | FMF                            |
| NO                        | REVISION              | BY & DATE    | CHK                        | ANG ±1/2°                      | FINISH CAMFAB INC.                                                                                                                         | PAGE OF                        |
| THIRD ANGLE<br>PROJECTION |                       |              | RFP                        | PREV                           | SIZE A                                                                                                                                     | DRAWING NO<br><b>005010-28</b> |
|                           |                       |              | NETWORK FILE NAME 00501028 |                                |                                                                                                                                            | REV<br>--                      |



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.28  
OUTLINE: 028845-800  
WINDING: T634341

CAT #: 122252.00

FR 3

### TYPICAL MOTOR PERFORMANCE DATA

| HP           | KW    | SYNC RPM        | FL RPM       | FRAME           | ENCLOSURE   | TYPE          | KVA CODE    | DESIGN          |                |             |    |           |  |
|--------------|-------|-----------------|--------------|-----------------|-------------|---------------|-------------|-----------------|----------------|-------------|----|-----------|--|
| 1.5          | 1.1   | 1800            | 1750         | 145 C           | TEFC        | TFR           | L           | B               |                |             |    |           |  |
|              |       |                 |              |                 |             |               |             |                 |                |             |    |           |  |
| PH           | HZ    | VOLTS           | AMPS         | START TYPE      | DUTY        | INSL          | S.F.        | AMB             | ELEV.          |             |    |           |  |
| 3            | 60    | 208-230/460     | 4.4-4.3/2.15 | ACROSS THE LINE | CONT        | F             | 1.15        | 40              | 3300           |             |    |           |  |
|              |       |                 |              |                 |             |               |             |                 |                |             |    |           |  |
| F.L.EFF      |       | 86.5            | 3/4 LD EFF   | 87.2            | 1/2 LD EFF  | 84.0          | GTD EFF     | ELECT. TYPE     |                |             |    |           |  |
| F.L.PF       |       | 67.7            | 3/4 LD PF    | 63.0            | 1/2 LD PF   | 55.0          | 0.0         | SQ CAGE IND RUN |                |             |    |           |  |
|              |       |                 |              |                 |             |               |             |                 |                |             |    |           |  |
| F.L. TORQUE  |       | LR AMPS @ 460 V |              |                 | L.R. TORQUE |               | B.D. TORQUE |                 | F.L. RISE (°C) |             |    |           |  |
| 4.5          | LB-FT | 18.5            |              | 17.2            | LB-FT       | 382%          |             | 20.4            | LB-FT          | 453%        | 45 |           |  |
|              |       |                 |              |                 |             |               |             |                 |                |             |    |           |  |
| PRESSURE @ 3 |       | POWER           |              | ROTOR WK²       |             | MAX. LOAD WK² |             | SAFE STALL TIME |                | STARTS/HOUR |    | MOTOR WGT |  |
| 65           | dBA   | 74              | dBA          | 0.14            | LB-FT²      | 0.1           | LB-FT²      | 10              | SEC.           | 3           | 0  | LB.       |  |

### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE   | MOTOR ORIENTATION | SEVERE DUTY  | HAZARDOUS LOCATION | DRIIP COVER              | SCREENS        | PAINT             |
|-----------------|------------------|--------------|-------------------|--------------|--------------------|--------------------------|----------------|-------------------|
| C-FACE          | BRAKE            | ROUND        | HORIZONTAL        | NO           | NONE               | NO                       | NONE           | IN - LEESON WATTS |
| BEARINGS        | GREASE           | SHAFT TYPE   | SPECIAL DE        | SPECIAL ODE  | SHAFT              | MATERIAL                 | FRAME MATERIAL |                   |
| DE CODE         |                  |              |                   |              |                    |                          |                |                   |
| BALL 6205       | POLYREX EM       | STANDARD 56  | NONE              | NONE         |                    | 1144 STRESSPROOF (C-223) | ROLLED STEEL   |                   |
| 6203            |                  |              |                   |              |                    |                          |                |                   |
| THERMOSTATS     | PROTECTORS       | WDG RTD's    | BRG RTD's         | THERMISTORS  | CONTROL            | SPACE HEATERS            |                |                   |
| TSTATS (N/C)    | NOT              | NONE         | NONE              | NONE         | FALSE              | NA                       |                |                   |
| R1 (ohms/ph)    | R2 (ohms/ph)     | X1 (ohms/ph) | X2 (ohms/ph)      | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT                    |                |                   |
| 0               | 0                | 0            | 0                 | 0            | 0.080              | ODE                      |                |                   |

|     |                           |  |
|-----|---------------------------|--|
| * N | INVERTER TORQUE: NONE     |  |
| O   | INV. HP SPEED RANGE: NONE |  |
| T   |                           |  |
| E   | ENCODER: NONE             |  |
| S   | NONE                      |  |
| *   | BRAKE: STEARNS            |  |
|     | 56,000 NEMA 2             |  |
|     | FT-LB: 10                 |  |
|     | VOLTAGE: 230/460-190/380  |  |
|     | UL: Y-(LEESON UL REC)     |  |

|                 |     |
|-----------------|-----|
| DATE: 1/17/2018 | HZ: |
|-----------------|-----|



Data@ 460 V

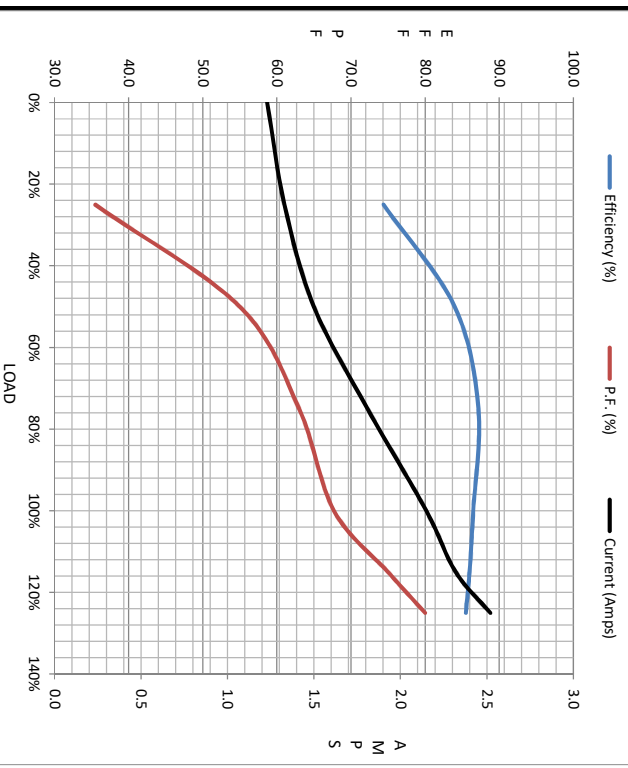
| Motor Load Data |      |      |      |      |      |       |      |      |  |
|-----------------|------|------|------|------|------|-------|------|------|--|
| Load            | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
| Current (amps)  | 1.23 | 1.33 | 1.50 | 1.81 | 2.15 | 2.32  | 2.52 | 18.5 |  |
| Torque (ft-lb)  | 0.00 | 1.10 | 2.25 | 3.4  | 4.5  | 5.2   | 5.6  | 17.2 |  |
| RPM             | 1800 | 1772 | 1750 | 1750 | 1750 | 1,738 | 1732 | 0    |  |
| Efficiency (%)  |      | 74.4 | 84.0 | 87.2 | 86.5 | 86.0  | 85.5 |      |  |
| P.F. (%)        | 9.9  | 35.5 | 55.0 | 63.0 | 67.7 | 75.0  | 80.0 | 48.0 |  |

### Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle | Information Block |      |
|----------------|------|---------|------|-------|------|-------------------|------|
| Speed (RPM)    | 0    | 900     | 1600 | 1750  | 1800 |                   |      |
| Current (amps) | 18.5 | 16.1    | 12.1 | 2.15  | 1.23 | HP                | 1.5  |
| Torque (ft-lb) | 17.2 | 16.0    | 20.4 | 4.5   | 0.00 | Sync. RPM         | 1800 |

## Information Block

| RPM                        |    | 1.5         |        |        |  |
|----------------------------|----|-------------|--------|--------|--|
| Sync. RPM                  |    | 1800        |        |        |  |
| Frame                      |    | 140         |        |        |  |
| Enclosure                  |    | TEFC        |        |        |  |
| Construction               |    | TFR         |        |        |  |
| Voltage                    |    | 208-230/460 |        | V      |  |
| Frequency                  |    | 60          |        | Hz     |  |
| Design                     |    | B           |        |        |  |
| LR Code letter             |    | L           |        |        |  |
| Service Factor             |    | 1.15        |        |        |  |
| Temp Rise @ FL             |    | 45          |        | ° C    |  |
| Duty                       |    | CONT        |        |        |  |
| Ambient                    |    | 40          |        | ° C    |  |
| Elevation                  |    | 1,000       |        | feet   |  |
| Rotor/Shaft wk²            |    | 0.14        |        | Lb-Ft² |  |
| Ref Wdg                    |    | TS94341 FR  |        |        |  |
| Sound Pressure @ 1M        |    | 65          |        | dBA    |  |
| VFD Rating                 |    | NONE        |        |        |  |
| Outline Dwg                |    | 028845-800  |        |        |  |
| Conn. Diag                 |    | 005010.28   |        |        |  |
| Additional Specifications: |    |             |        |        |  |
| 0                          |    |             |        |        |  |
| 0                          |    |             |        |        |  |
| EQUIV CKT (OHMS / PHASE)   |    |             |        |        |  |
| R1                         | R2 | X1          | X2     | Xm     |  |
| 0.0000                     |    | 0.0000      | 0.0000 | 0.0000 |  |



## Speed -Torque Curve

