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# Customer information packet

## ECP4313T

75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Enclosure                     | TEFC                                            |
| Frame                         | 365TS                                           |
| Frame Material                | Iron                                            |
| Frequency                     | 60.00 Hz                                        |
| Haz Area Class and Group      | CL I GP A,B,C,D                                 |
| Haz Area Division             | Division II                                     |
| Motor Letter Type             | Three Phase                                     |
| Output @ Frequency            | 75.000 HP @ 60 HZ                               |
| Phase                         | 3                                               |
| Synchronous Speed @ Frequency | 3600 RPM @ 60 HZ                                |
| Voltage @ Frequency           | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ              |
| Agency Approvals              | CCSAUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR |
| Ambient Temperature           | 40 °C                                           |
| Auxiliary Box                 | NO AUXILLARY BOX                                |
| Base Indicator                | Rigid                                           |
| Bearing Grease Type           | Polyrex EM (-20F +300F)                         |
| Constant Torque Speed Range   | 10-60                                           |
| Current @ Voltage             | 80.700 A @ 460.0 V<br>161.000 A @ 230.0 V       |
| Design Code                   | B                                               |
| Drip Cover                    | No Drip Cover                                   |
| Duty Rating                   | CONT                                            |
| Efficiency @ 100% Load        | 93.6 %                                          |
| Feedback Device               | NO FEEDBACK                                     |
| Haz Area Temp Code            | T3                                              |
| Heater Indicator              | No Heater                                       |
| High Voltage Full Load Amps   | 80.7 a                                          |
| Insulation Class              | F                                               |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AA         |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG0107  |
| Layout       | 617428-036 |
| Eff. date    | 08-26-2024 |
| CD Diagram   | 416820-002 |
| Poles        | 02         |
| Leads        | 3#2,6#4    |
| Proprietary  | False      |
| Created date | 10-19-2010 |

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Inverter Code</b>                 | <b>Inverter Ready</b>     |
| <b>IP Rating</b>                     | <b>NONE</b>               |
| <b>KVA Code</b>                      | <b>F</b>                  |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>    |
| <b>Max Speed</b>                     | <b>4500 rpm</b>           |
| <b>Motor Lead Quantity/Wire Size</b> | <b>3 @ 2 AWG</b>          |
| <b>Motor Standards</b>               | <b>NEMA</b>               |
| <b>Motor Type</b>                    | <b>A36068M</b>            |
| <b>Mounting Arrangement</b>          | <b>F1</b>                 |
| <b>Number of Poles</b>               | <b>2</b>                  |
| <b>Overall Length</b>                | <b>31.37 IN</b>           |
| <b>Power Factor</b>                  | <b>92</b>                 |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>               |
| <b>Pulley Face Code</b>              | <b>Standard</b>           |
| <b>Service Factor</b>                | <b>1.15</b>               |
| <b>Shaft Diameter</b>                | <b>1.875 IN</b>           |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b> |
| <b>Shaft Rotation</b>                | <b>Reversible</b>         |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>         |
| <b>Speed</b>                         | <b>3555 rpm</b>           |
| <b>Speed Code</b>                    | <b>Single Speed</b>       |
| <b>Starting Method</b>               | <b>Direct on line</b>     |
| <b>Thermal Device - Bearing</b>      | <b>None</b>               |
| <b>Thermal Device - Winding</b>      | <b>None</b>               |

## Nameplate

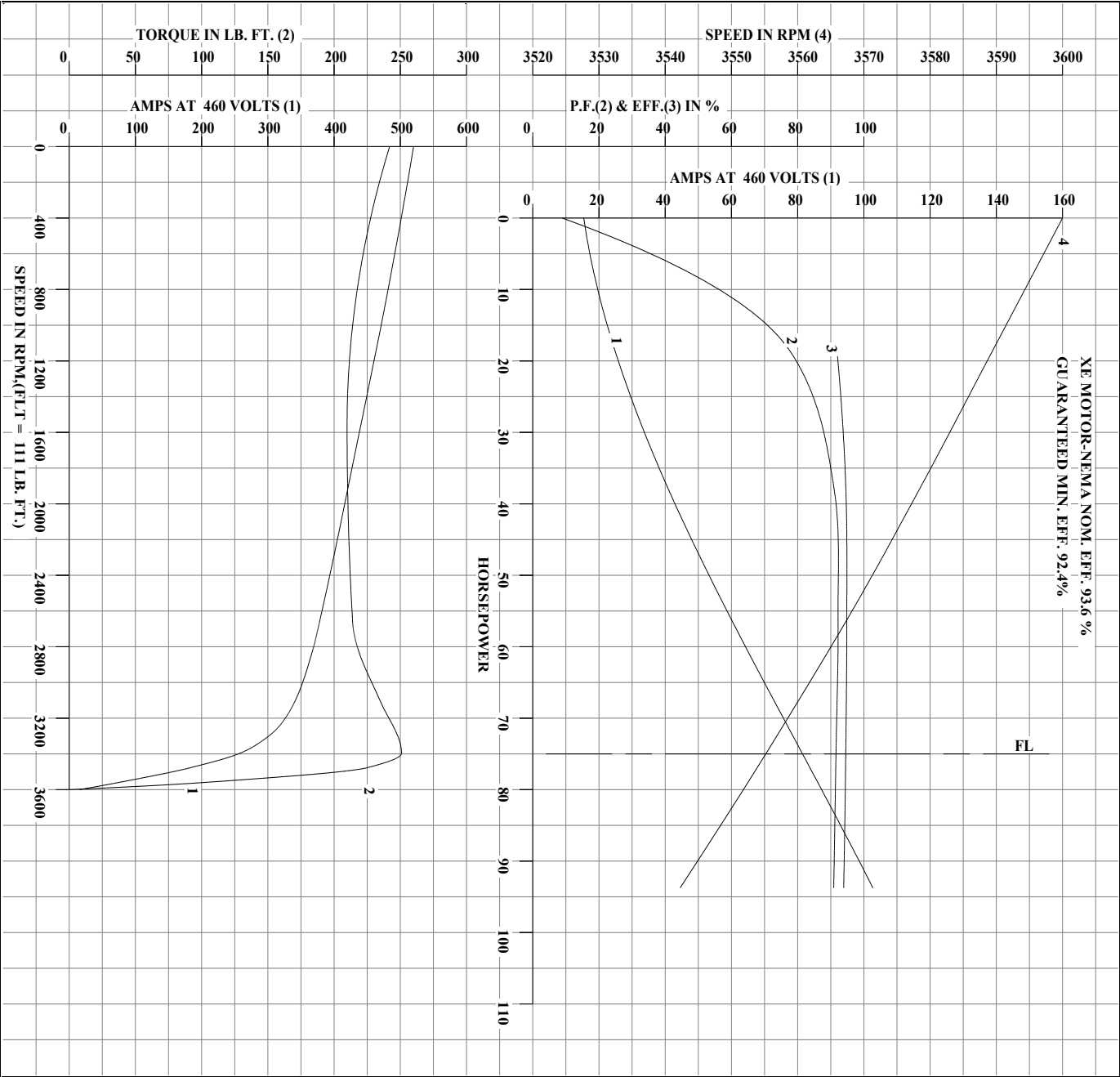
| NP4033LUA               |            |      |       |           |                  |                            |              |      |        |             |      |     |               |      |        |  |
|-------------------------|------------|------|-------|-----------|------------------|----------------------------|--------------|------|--------|-------------|------|-----|---------------|------|--------|--|
| CAT #                   | ECP4313T   |      |       |           |                  | SER                        |              |      |        | CC          | 010A |     |               |      |        |  |
| SPEC                    | P36G402    |      |       |           |                  | RATING                     | 40C AMB-CONT |      |        |             |      |     |               |      |        |  |
| HZ                      | VOLTS      |      |       | AMPS      |                  | RPM                        | HP           | CODE | -      | SF          | DES  | PF  | NEMA NOM. EFF |      |        |  |
| 60                      | 230/460    |      |       | 161/80.7  |                  | 3555                       | 75           | F    |        | 1.15        | B    | 92  | %             | 93.6 | %      |  |
|                         |            |      |       |           |                  |                            |              |      |        |             |      |     | %             |      | %      |  |
| PH                      | 3          | CL   | F     | MAX RPM   | 4500             | MAX CORR KVAR              |              | 5    |        |             |      |     |               |      |        |  |
| BRG                     | DE         | 6313 |       | ODE       | 6313             | ENCL                       | TEFC         | FR   | 365TS  |             | IP   | 55  |               |      |        |  |
| GREASE                  | POLYREX EM |      |       |           |                  |                            |              |      | MTR WT |             | 915  | LBS |               |      |        |  |
| CL I DIV 2 GRPS A,B,C,D |            |      |       |           | CL I ZONE 2 GRPS |                            |              |      |        | IIA,IIB,IIC |      |     | TEMP T        | 200  | C      |  |
| INV READY               |            | CT   | 15-60 |           | HZ               | 4:1                        | VT           | 3-60 | HZ     | 20:1        |      | CHP | 60-75         | HZ   | 1.25:1 |  |
| INV TEMP CL             |            | 200  | C     | USABLE AT |                  | 50HZ 60HP 190/380V 156/78A |              |      |        |             |      |     | SF1.0         |      |        |  |
|                         |            |      |       |           |                  |                            |              |      |        |             |      |     |               |      |        |  |

|                                                                                                                                    |             |                                                                                            |                       |                                            |                |                                        |
|------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------|----------------|----------------------------------------|
| S/O                                                                                                                                | FRAME       | HP                                                                                         | TYPE                  | PHASE/<br>HERTZ                            | RPM            | VOLTS                                  |
|                                                                                                                                    | 365TS       | 75                                                                                         | P                     | 3/60                                       | 3555           | 230/460                                |
|                                                                                                                                    |             |                                                                                            |                       |                                            |                |                                        |
| AMPS                                                                                                                               | DUTY        | AMB °C/<br>INSUL                                                                           | S.F.                  | NEMA<br>DESIGN                             | CODE<br>LETTER | ENCLOSURE                              |
| 16/80.7                                                                                                                            | CONT        | 40/F                                                                                       | 1.15                  | B                                          | F              | TEFC                                   |
|                                                                                                                                    |             |                                                                                            |                       |                                            |                |                                        |
| E/S                                                                                                                                | ROTOR       | TEST<br>S.O.                                                                               | TEST<br>DATE          | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES) |                |                                        |
| 892019                                                                                                                             | 418141005TE | ---                                                                                        | ---                   | .0186/.0744                                |                |                                        |
| PERFORMANCE                                                                                                                        |             |                                                                                            |                       |                                            |                |                                        |
| LOAD                                                                                                                               | HP          | AMPERES                                                                                    | RPM                   | % POWER FACTOR                             | % EFFICIENCY   |                                        |
| NO LOAD                                                                                                                            | 0           | 15.5                                                                                       | 3600                  | 8.92                                       | 0              |                                        |
| 1/4                                                                                                                                | 18.8        | 24.5                                                                                       | 3589                  | 77.9                                       | 91.9           |                                        |
| 2/4                                                                                                                                | 37.5        | 40.9                                                                                       | 3579                  | 90.9                                       | 94.5           |                                        |
| 3/4                                                                                                                                | 56.2        | 60.2                                                                                       | 3567                  | 92.2                                       | 94.8           |                                        |
| 4/4                                                                                                                                | 75.0        | 81.1                                                                                       | 3555                  | 91.6                                       | 94.5           |                                        |
| 5/4                                                                                                                                | 93.8        | 103                                                                                        | 3542                  | 90.9                                       | 93.9           |                                        |
|                                                                                                                                    |             |                                                                                            |                       |                                            |                |                                        |
| SPEED TORQUE                                                                                                                       |             |                                                                                            |                       |                                            |                |                                        |
|                                                                                                                                    |             | RPM                                                                                        | TORQUE<br>% FULL LOAD | TORQUE<br>LB.-FT.                          | AMPERES        |                                        |
| LOCKED ROTOR                                                                                                                       |             | 0                                                                                          | 218                   | 242                                        | 520            |                                        |
| PULL UP                                                                                                                            |             | 1565                                                                                       | 189                   | 210                                        | 440            |                                        |
| BREAKDOWN                                                                                                                          |             | 3395                                                                                       | 227                   | 251                                        | 259            |                                        |
| FULL LOAD                                                                                                                          |             | 3555                                                                                       | 100                   | 111                                        | 81.1           |                                        |
| AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE. |             |                                                                                            |                       |                                            |                |                                        |
| TYPICAL DATA<br>NEMA NOM. EFF. 93.6 %<br>GUARANTEED MIN. EFF. 92.4 %                                                               |             |                                                                                            |                       |                                            |                |                                        |
| <b>BALDOR</b><br>A MEMBER OF THE ABB GROUP                                                                                         |             | DRAWN BY: L.J.HARRISON<br>CHECKED BY: G.R.WEBB<br>APPROVED BY: W.L.SMITH<br>DATE: 10/16/02 |                       | AC MOTOR<br>PERFORMANCE<br>DATA            |                | A36WG0107-R001<br>DATE ISSUED 12/14/10 |

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|               |       |                |          |             |        |                      |              |
|---------------|-------|----------------|----------|-------------|--------|----------------------|--------------|
| REL.S.O.      | 365TS | RPM            | 3555     | S.F.        | 1.15   | ROTOR                | 418141005TE  |
| FRAME         | 365TS | VOLTS          | 230/460  | NEMA DESIGN | B      | TEST S.O.            | TYPICAL DATA |
| HP            | 75    | AMPS           | 161/80.7 | CODE LETTER | F      | TEST DATE            | ---          |
| TYPE          | P     | DUTY CONT      |          | ENCLOSURE   | TEFC   | STATOR RES. @ 25°C   | .0186/.0744  |
| PHASE / HERTZ | 3/60  | AMB °C / INSUL | 40/F     | E/S         | 892019 | OHMS (BETWEEN LINES) |              |



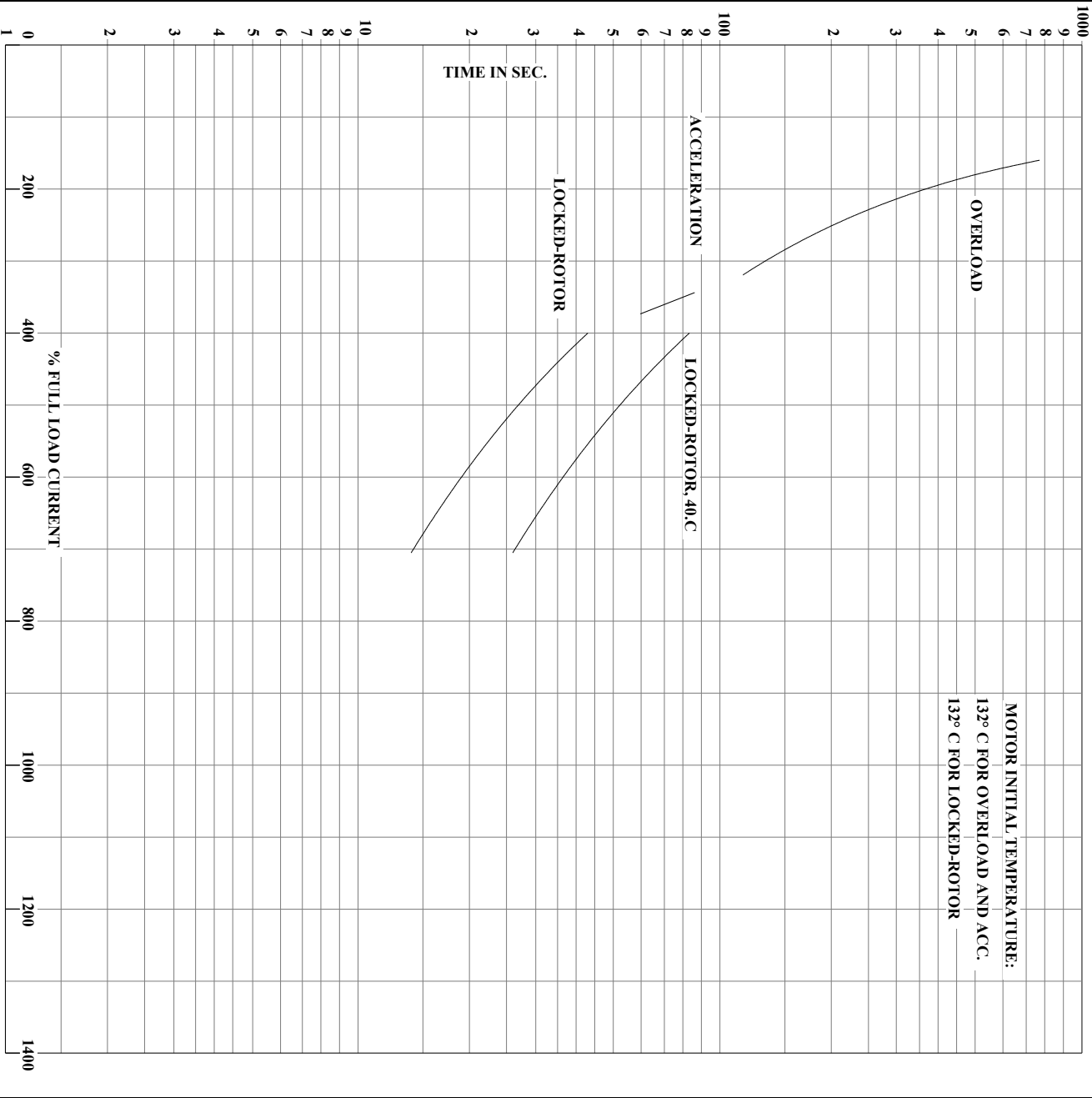
AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

|                                            |                        |             |                     |
|--------------------------------------------|------------------------|-------------|---------------------|
| <b>BALDOR</b><br>A MEMBER OF THE ABB GROUP | DRAWN BY: L.J.HARRISON | AC MOTOR    | A36WG0107-R001      |
|                                            | CHECKED BY: G.R.WEBB   | PERFORMANCE |                     |
|                                            | APPROVED BY: W.L.SMITH | DATA        |                     |
|                                            | DATE: 10/16/02         |             | ISSUE DATE 12/14/10 |

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|                    |                     |                |                                |
|--------------------|---------------------|----------------|--------------------------------|
| REL.S.O.           | RPM 3555            | S.F. 1.15      | ROTOR 418141005TE              |
| FRAME 365TS        | VOLTS 230/460       | NEMA DESIGN B  | TEST S.O. TYPICAL DATA         |
| HP 75              | AMPS 161/80.7       | CODE LETTER F  | TEST DATE ---                  |
| TYPE P             | DUTY CONT           | ENCLOSURE TEFC | STATOR RES. @ 25°C .0186/.0744 |
| PHASE / HERTZ 3/60 | AMB °C / INSUL 40/F | E/S 892019     | OHMS (BETWEEN LINES)           |



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

**BALDOR**  
A MEMBER OF THE ABB GROUP

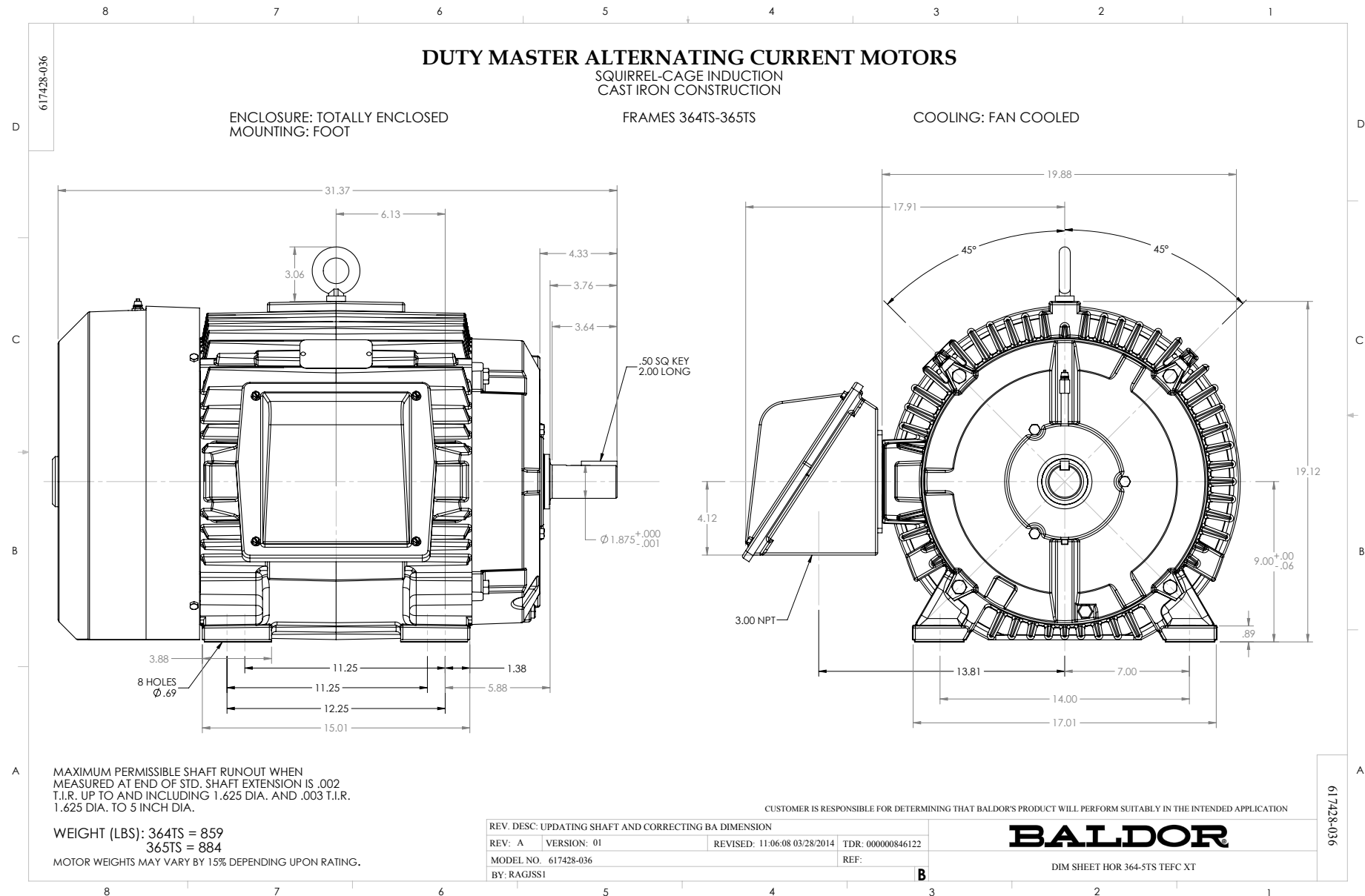
DRAWN BY: J.L.HARRISON  
CHECKED BY: G.R.WEBB  
APPROVED BY: W.L.SMITH  
DATE: 10/16/02

AC MOTOR  
PERFORMANCE  
DATA

A36WG0107-R001  
ISSUE DATE 12/14/10

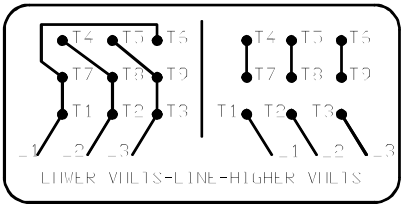
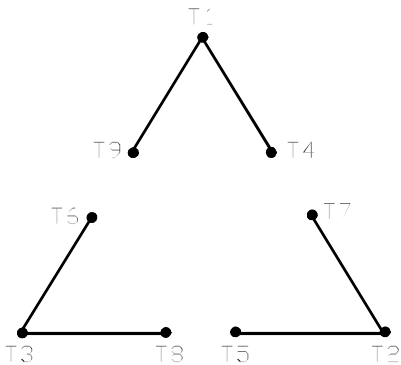
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A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

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BALDOR - RELIANCE®

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