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# Customer information packet

## EM4308T-G

40HP, 1190RPM, 3PH, 60HZ, 364T, A36062M, TEFC

Class - None

Division - Not Applicable

## Specifications

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| Enclosure                     | TEFC                                                            |
| Frame                         | 364T                                                            |
| Frame Material                | Iron                                                            |
| Frequency                     | 60.00 Hz                                                        |
| Haz Area Class and Group      | None                                                            |
| Haz Area Division             | Not Applicable                                                  |
| Motor Letter Type             | Three Phase                                                     |
| Output @ Frequency            | 40.000 HP @ 60 HZ                                               |
| Phase                         | 3                                                               |
| Synchronous Speed @ Frequency | 1200 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)                                         |
| Current @ Voltage             | 99.600 A @ 230.0 V<br>49.800 A @ 460.0 V<br>107.000 A @ 208.0 V |
| Design Code                   | B                                                               |
| Drip Cover                    | No Drip Cover                                                   |
| Duty Rating                   | CONT                                                            |
| Efficiency @ 100% Load        | 94.1 %                                                          |
| Feedback Device               | NO FEEDBACK                                                     |
| Heater Indicator              | No Heater                                                       |
| High Voltage Full Load Amps   | 49.8 a                                                          |
| Insulation Class              | H                                                               |
| Inverter Code                 | Inverter Ready                                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | L          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG1194  |
| Layout       | 617428-021 |
| Eff. date    | 07-08-2024 |
| CD Diagram   | 416820-002 |
| Poles        | 06         |
| Leads        | 3#4,6#6    |
| Proprietary  | False      |
| Created date | 02-25-2020 |

|                               |                       |
|-------------------------------|-----------------------|
| IP Rating                     | NONE                  |
| KVA Code                      | G                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Max Speed                     | 1800 rpm              |
| Motor Lead Quantity/Wire Size | 3 @ 4 AWG             |
| Motor Standards               | NEMA                  |
| Motor Type                    | A36062M               |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 6                     |
| Overall Length                | 33.48 IN              |
| Power Factor                  | 80                    |
| Product Family                | General Industrial    |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 2.375 IN              |
| Shaft Ground Indicator        | Shaft Grounding       |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1190 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |
| Thermal Device - Winding      | None                  |

## Nameplate

## NP3979LUA

|               |    |                           |   |               |  |        |  |              |  |        |  |      |  |      |  |      |  |               |  |       |  |    |  |       |  |             |  |
|---------------|----|---------------------------|---|---------------|--|--------|--|--------------|--|--------|--|------|--|------|--|------|--|---------------|--|-------|--|----|--|-------|--|-------------|--|
| CAT #         |    | EM4308T-G                 |   |               |  | SER    |  |              |  |        |  | CC   |  | 010A |  |      |  |               |  |       |  |    |  |       |  |             |  |
| SPEC          |    | A36-0002-1194             |   |               |  | RATING |  | 40C AMB-CONT |  |        |  |      |  |      |  |      |  |               |  |       |  |    |  |       |  |             |  |
| HZ            |    | VOLTS                     |   | AMPS          |  | RPM    |  | HP           |  | CODE   |  | SF   |  | DES  |  | PF   |  | NEMA NOM. EFF |  |       |  |    |  |       |  |             |  |
| 60            |    | 230/460                   |   | 99.6/49.8     |  | 1190   |  | 40           |  | G      |  | 1.15 |  | B    |  | 80   |  | % 94.1 %      |  |       |  |    |  |       |  |             |  |
|               |    | -                         |   |               |  |        |  |              |  |        |  |      |  |      |  | %    |  |               |  |       |  |    |  |       |  |             |  |
| PH            | 3  | CL                        | H | MAX CORR KVAR |  | 12     |  |              |  |        |  |      |  |      |  |      |  |               |  |       |  |    |  |       |  |             |  |
| BRG           | DE | 6313                      |   | ODE           |  | 6313   |  | ENCL         |  | TEFC   |  | FR   |  | 364T |  | 54   |  |               |  |       |  |    |  |       |  |             |  |
| GREASE        |    | POLYREX EM                |   |               |  |        |  |              |  | MTR WT |  | 883  |  | LBS  |  |      |  |               |  |       |  |    |  |       |  |             |  |
| USABLE AT     |    | 50HZ 30HP 190/380V 98/49A |   |               |  |        |  |              |  | SF1.0  |  |      |  |      |  |      |  |               |  |       |  |    |  |       |  |             |  |
| INVERTER DUTY |    | CT                        |   | 15-60         |  | HZ     |  | 4:1          |  | VT     |  | 3-60 |  | HZ   |  | 20:1 |  | CHP           |  | 60-90 |  | HZ |  | 1.5:1 |  | 1.0 SF VPWM |  |
| MAX RPM       |    | 1800                      |   | SFA 113/56.3  |  |        |  |              |  |        |  |      |  |      |  |      |  |               |  |       |  |    |  |       |  |             |  |
|               |    |                           |   |               |  |        |  |              |  |        |  |      |  |      |  |      |  |               |  |       |  |    |  |       |  |             |  |

## AC induction motor performance data

Record #93159 - Typical performance - not guaranteed values

|           |           |
|-----------|-----------|
| Winding   | A36WG1194 |
| Type      | A3662M    |
| Enclosure | TEFC      |

## Nameplate data

|                |             |
|----------------|-------------|
| Rated Output   | 40          |
| Volts          | 230 / 460   |
| Full Load Amps | 99.6 / 49.8 |
| R.P.M.         | 1190        |
| Hz             | 60          |
| Phase          | 3           |
| KVA Code       | G           |
| S.F.           | 1.15        |
| NEMA Nom. Eff. | 94.1        |
| Power Factor   | 80          |
| Duty           | CONT        |
| S.F. Amps      |             |

## 460 V, 60 Hz:

## High Voltage Connection

|                           |                  |
|---------------------------|------------------|
| Full Load Torque          | 176.8 LB-FT      |
| Start Configuration       | direct on line   |
| Breakdown Torque          | 514 LB-FT        |
| Pull-up Torque            | 266 LB-FT        |
| Locked-rotor Torque       | 335 LB-FT        |
| Starting Current          | 312 A            |
| No-load Current           | 18.7             |
| Line-line Res. @ 25°C     | 0.14922 $\Omega$ |
| Temp. Rise @ Rated Load   | 43°C             |
| Temp. Rise @ S.F. Load    | 51°C             |
| Locked-rotor Power Factor | 25.4             |
| Rotor inertia             | 0                |

## Load Characteristics 460 V, 60 Hz, 40 HP

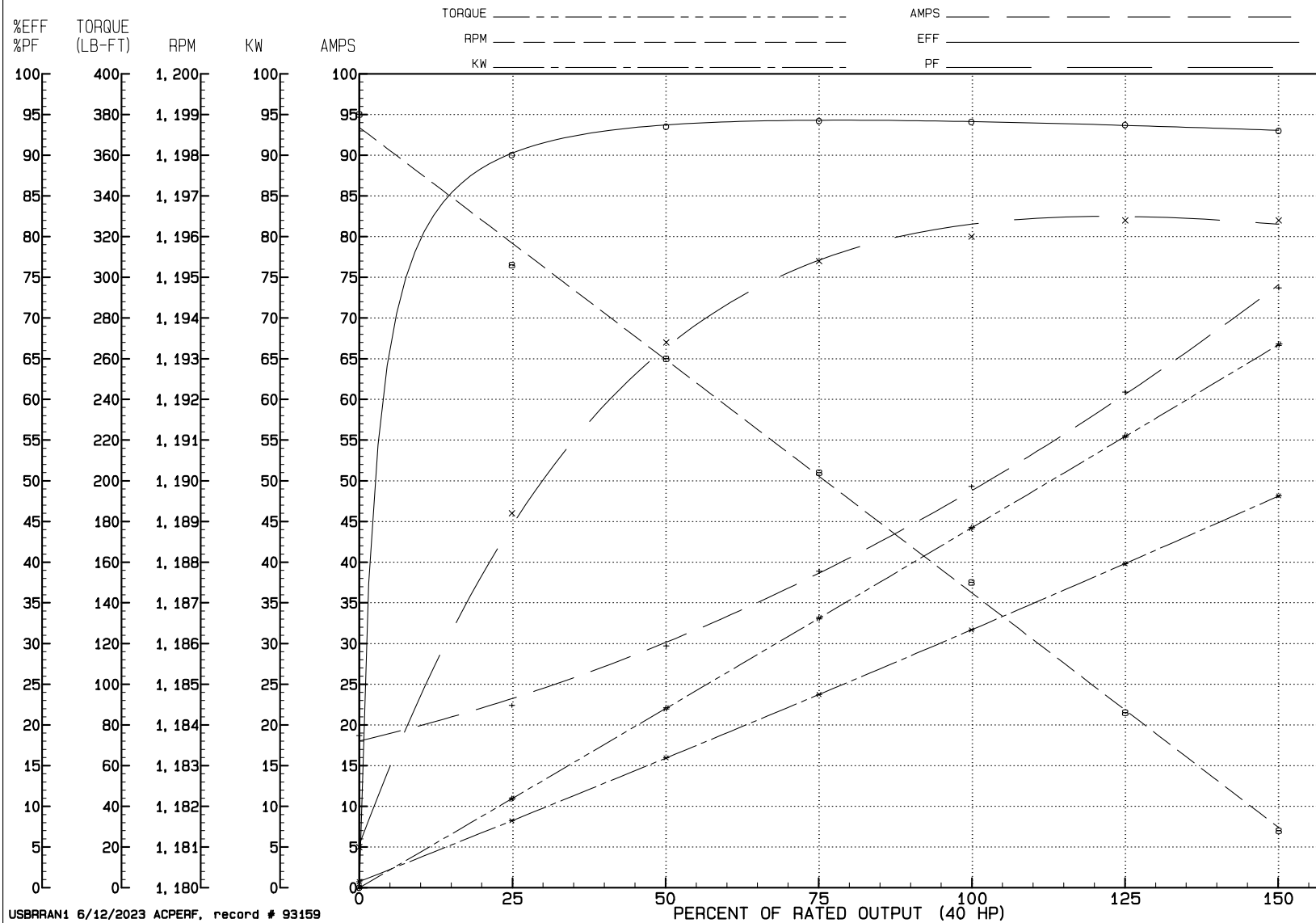
|                 |      |        |      |        |        |        |        |      |
|-----------------|------|--------|------|--------|--------|--------|--------|------|
| % of Rated Load | NL   | 25     | 50   | 75     | 100    | 125    | 150    | SF   |
| Power Factor    | 5    | 46     | 67   | 77     | 80     | 82     | 82     | 81   |
| Efficiency      | 0    | 90     | 93.5 | 94.2   | 94.1   | 93.7   | 93     | 93.9 |
| Speed           | 1199 | 1195.3 | 1193 | 1190.2 | 1187.5 | 1184.3 | 1181.4 | 1186 |
| Line amperes    | 18.7 | 22.4   | 29.7 | 38.9   | 49.3   | 60.9   | 73.7   | 56.3 |

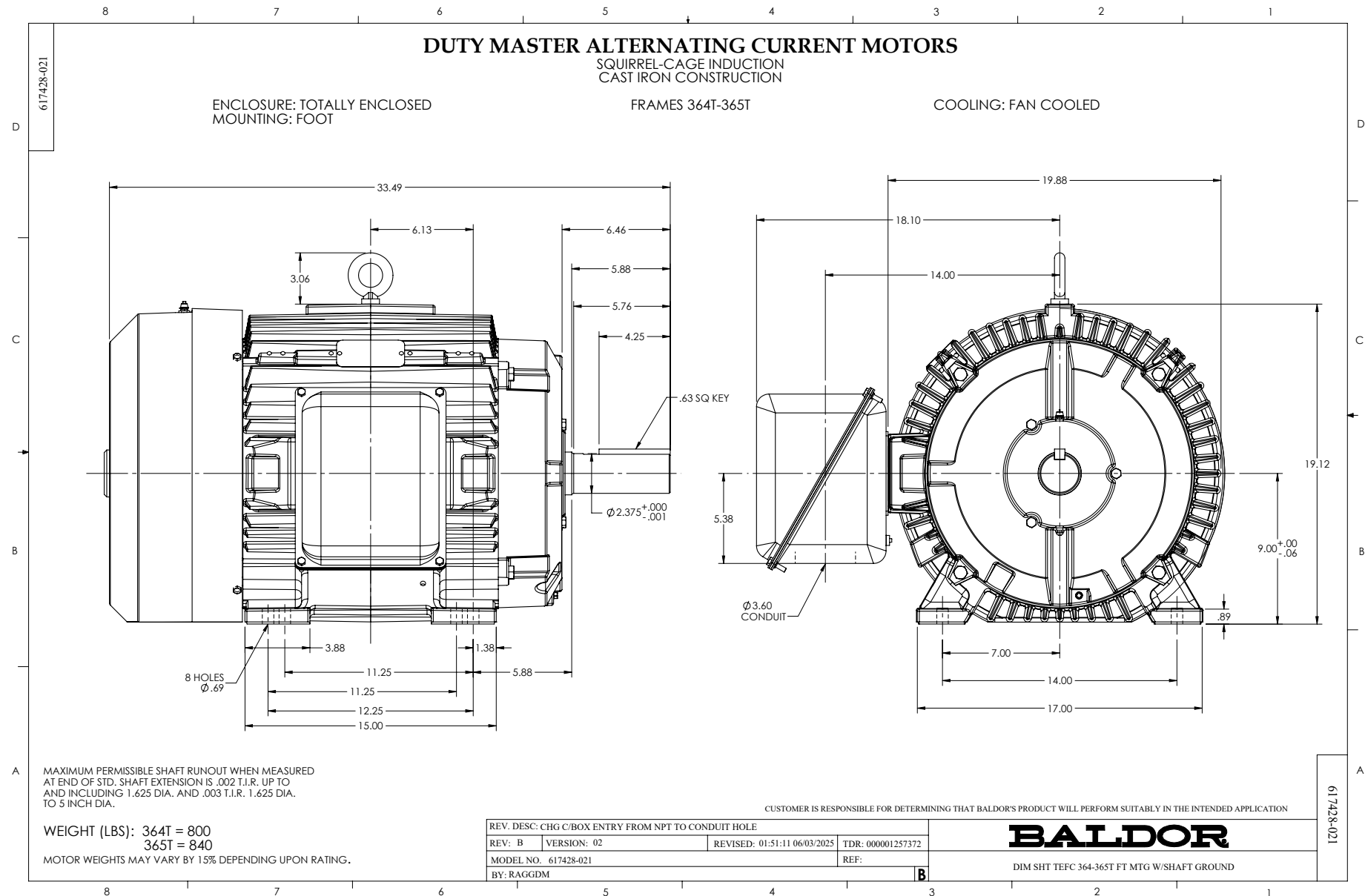
## REVIEW

WINDING # A36WG1194

40 HP 3 PH 60 HZ 1190 RPM 460 V A3662M

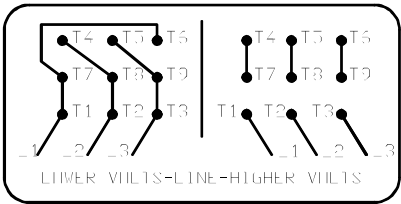
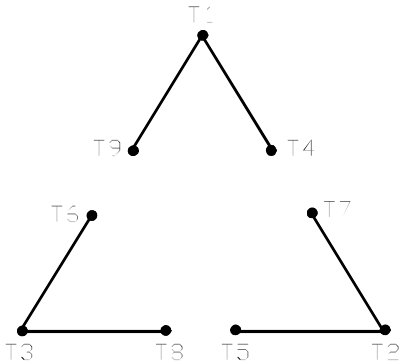
TORQUES (LB-FT): P0=514.00 PU=266.00 LR=335.00 LRA=312.00





416820-002

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



(N.P. 1575-B)

|                                           |                              |                   |
|-------------------------------------------|------------------------------|-------------------|
| REV. DESC: FONT CHANGE FOR PDF SEARCHABLE |                              |                   |
| REV. LTR: A                               | VERSION: 01                  | TDR: 000001009382 |
| FILE: \MGA\00000\661                      | REVISED: 02:46:19 02/13/2020 | BY: MGHMTT        |
| MTL: -                                    |                              |                   |

BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED  
SH 1 of 1

416820-002