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# Customer information packet

## SPM4412TS-4

125HP, 3575RPM, 3PH, 60HZ, 445TS, A44078M, TEF

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

## Specifications

|                               |                                       |
|-------------------------------|---------------------------------------|
| Enclosure                     | TEFC                                  |
| Frame                         | 445TS                                 |
| Frame Material                | Iron                                  |
| Frequency                     | 60.00 Hz                              |
| Haz Area Class and Group      | CLI GP A,B,C,D; CLII GP F,G           |
| Haz Area Division             | Division II                           |
| Motor Letter Type             | Three Phase                           |
| Output @ Frequency            | 125.000 HP @ 60 HZ                    |
| Phase                         | 3                                     |
| Synchronous Speed @ Frequency | 3600 RPM @ 60 HZ                      |
| Voltage @ Frequency           | 460.0 V @ 60 HZ                       |
| Agency Approvals              | CCSAUSEEV<br>CURUSEEV<br>NEMA PREMIUM |
| Ambient Temperature           | 40 °C                                 |
| Auxiliary Box                 | NO AUXILLARY BOX                      |
| Base Indicator                | Rigid                                 |
| Bearing Grease Type           | Polyrex EM (-20F +300F)               |
| Current @ Voltage             | 137.000 A @ 460.0 V                   |
| Design Code                   | B                                     |
| Drip Cover                    | No Drip Cover                         |
| Duty Rating                   | CONT                                  |
| Efficiency @ 100% Load        | 95.4 %                                |
| Feedback Device               | NO FEEDBACK                           |
| Heater Indicator              | No Heater                             |
| High Voltage Full Load Amps   | 137.0 a                               |
| Insulation Class              | F                                     |
| Inverter Code                 | Inverter Duty                         |
| KVA Code                      | F                                     |
| Lifting Lugs                  | Standard Lifting Lugs                 |
| Max Speed                     | 4500 rpm                              |
| Motor Lead Quantity/Wire Size | 6 @ 1 AWG                             |

## Part detail

|              |                    |
|--------------|--------------------|
| Revision     | A                  |
| Type         | AC                 |
| Mech. spec.  |                    |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | A44WG3104          |
| Layout       | 617439-173         |
| Eff. date    | 12-05-2025         |
| CD Diagram   | 416820-036         |
| Poles        | 02                 |
| Leads        | 3#1 (02 per group) |
| Proprietary  | False              |
| Created date | 11-22-2024         |

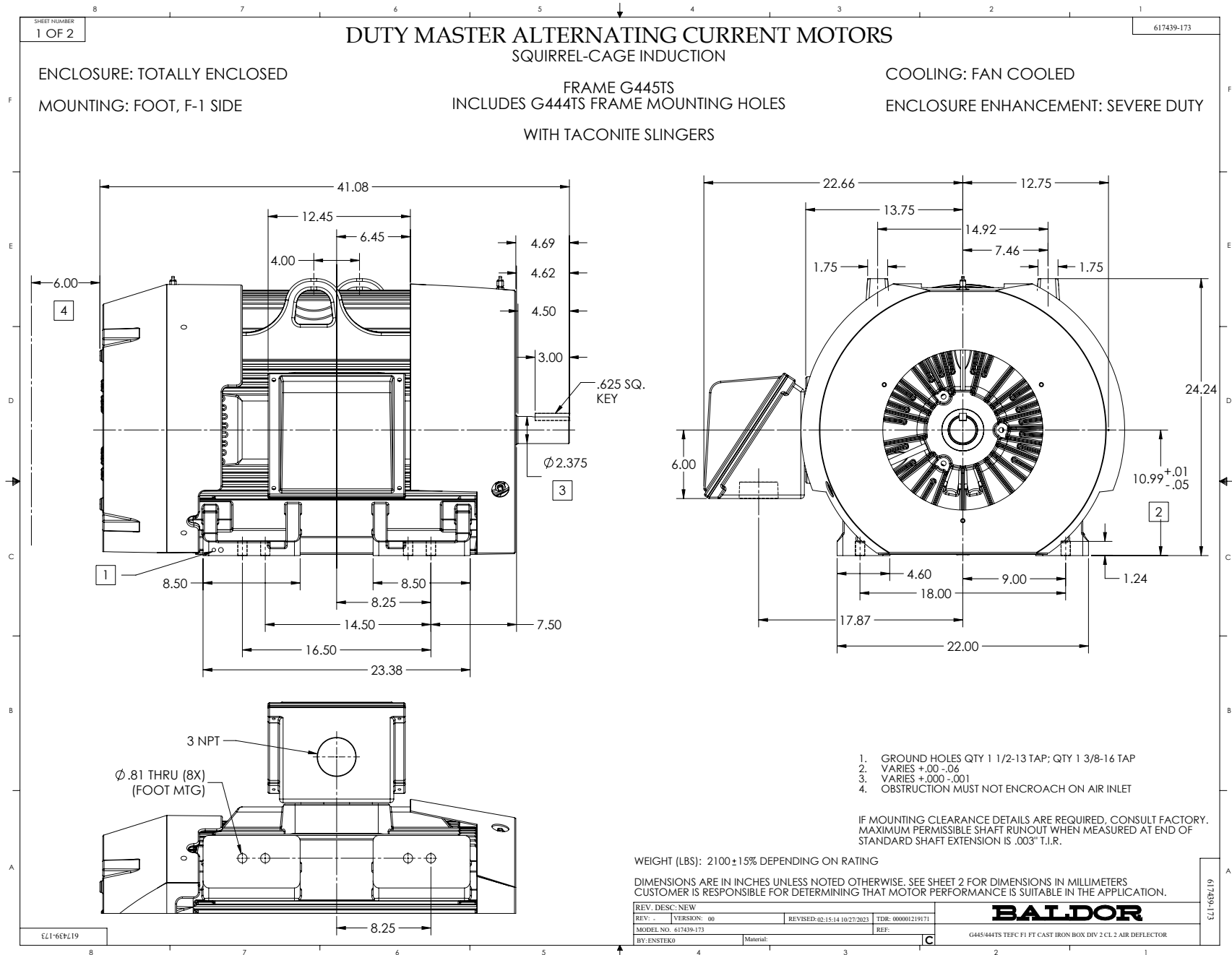
| Motor Standards          | NEMA               |
|--------------------------|--------------------|
| Motor Type               | A44078M            |
| Mounting Arrangement     | F1                 |
| Number of Poles          | 2                  |
| Overall Length           | 41.08 IN           |
| Power Factor             | 89                 |
| Product Family           | Fan - Centrifugal  |
| Pulley End Bearing Type  | Ball               |
| Pulley Face Code         | Standard           |
| Service Factor           | 1.15               |
| Shaft Diameter           | 2.375 IN           |
| Shaft Ground Indicator   | No Shaft Grounding |
| Shaft Rotation           | Reversible         |
| Shaft Slinger Indicator  | Shaft Slinger      |
| Speed                    | 3575 rpm           |
| Speed Code               | Single Speed       |
| Starting Method          | Direct on line     |
| Thermal Device - Bearing | None               |
| Thermal Device - Winding | None               |

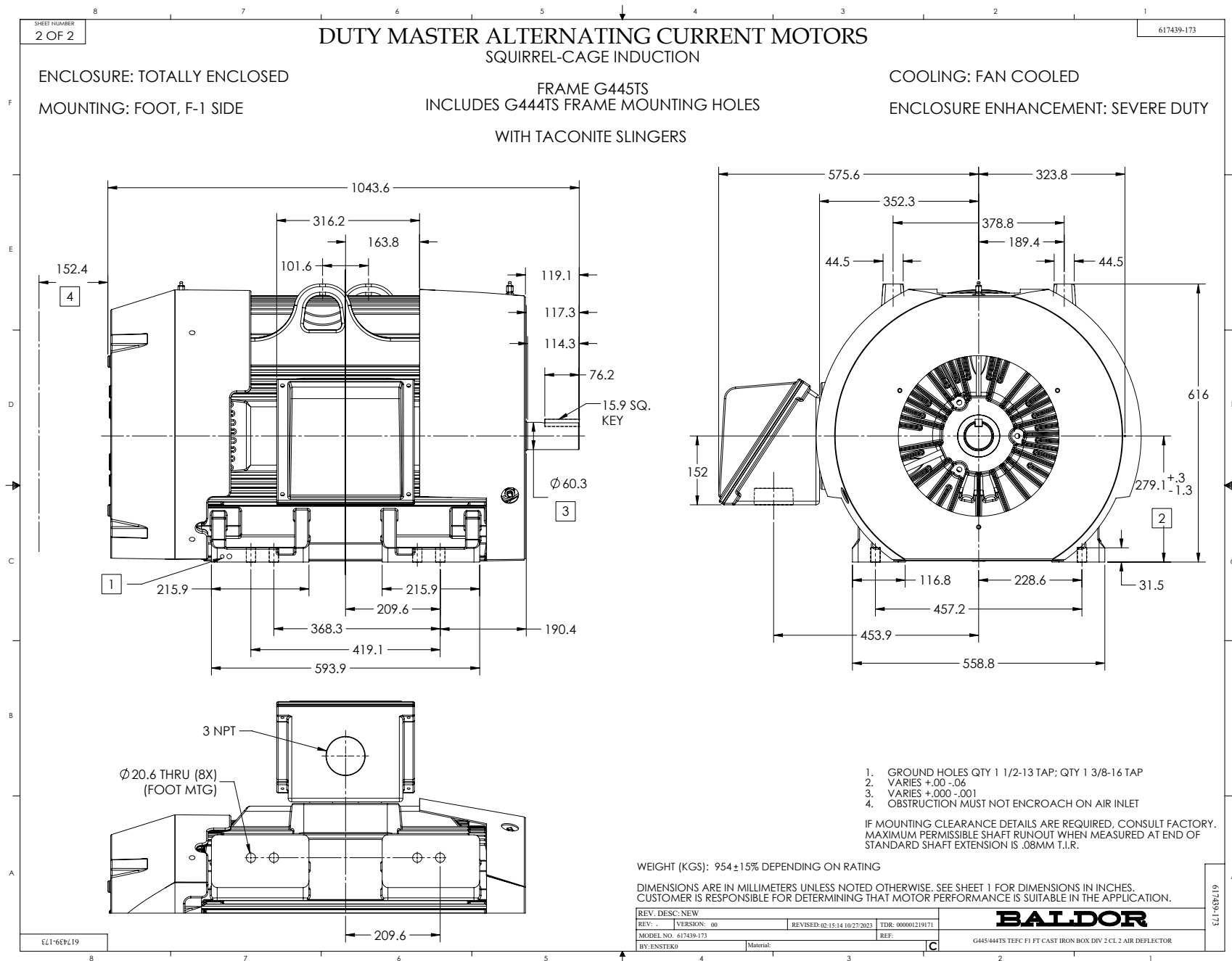
**Nameplate**

|                  |  |
|------------------|--|
| NP2496L          |  |
| MOBIL POLYREX EM |  |
|                  |  |

## NP4562L

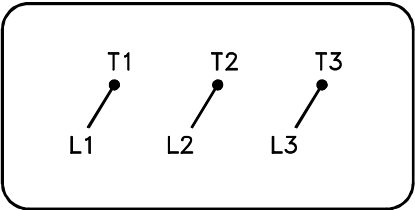
|                  |             |               |          |                         |       |       |                        |             |                      |
|------------------|-------------|---------------|----------|-------------------------|-------|-------|------------------------|-------------|----------------------|
| CAT NO           | SPM4412TS-4 |               | SPEC NO. | A44-5011-3104           |       |       | I.P.                   | 55          |                      |
| HP               | 125         | AMPS          | 137      | VOLTS                   | 460   |       | DESIGN                 | B           |                      |
| FRAME SIZE       | 445TS       | RPM           | 3575     | MAX RPM                 | 4500  | HZ    | 60                     | AMB         | 40 C                 |
| D.E. BRG.        | 65BC03J30X  |               | PH.3     | 3                       | DUTY  | CONT  |                        | INSUL.CLASS | F                    |
| O.D.E. BRG.      | 65BC03J30X  |               | TYPE P   | P                       | ENCL  | TEFC  | SF                     | 1.15        | CODE F               |
| POWER FACTOR     | 89          | MAX CORR KVAR | 17       | NEMA NOM EFFICIENCY     |       |       |                        | 95.4        | MOTOR WEIGHT LBS     |
| CL.I,DIV 2,GRP:  | A,B,C,D     | T.CODE        | T3A      | CL.1,ZONE 2,GRP:        |       |       | IIA,IIB,IIC            | T= 180      | C INVERTER T.CODE T3 |
| CL.II,DIV 2,GRP: | F,G         | T.CODE        | T3C      | CL II ZONE 22 GRPS IIIB |       |       | T= 160                 | C           | INVERTER T.CODE T3C  |
| ID LOGO          | INV TYPE:   | VPWM          | CT 30    | TO 60                   | VT 3  | TO 60 | CHP 60                 | TO 70       |                      |
| ID LOGO          | 1.0 SF VPWM | WK2           | 21.7     | LBFT2                   | SL HZ | 0.42  | MAG CUR                | 32.6        |                      |
| SER.NO.          |             |               |          | MEETS INTENT OF IEEE-45 |       |       | FOR WEATHER PROTECTION |             |                      |





416820-036

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 3 LEAD                      CONNECTED



(N.P. 1575-BA)

416820-036

|                                      |             |                                |                                                                               |
|--------------------------------------|-------------|--------------------------------|-------------------------------------------------------------------------------|
| REV. DESC: LOADED TO BUS, C/R 335225 |             |                                | <div>BALDOR</div> <div>CONN DIAG - STANDARD 3 LEAD</div> <div>SH 1 of 1</div> |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |                                                                               |
| FILE: \MGA\00000\682                 |             | REVISED: 11: 54: 06 04/30/2010 |                                                                               |
| MTL: -                               |             | BY: RAGRA                      |                                                                               |