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# Customer information packet

## L1405T

2HP, 1725RPM, 1PH, 60HZ, 182T, 3628L, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | OPEN                                                           |
| Frame                          | 182T                                                           |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Cap Start, Induction Run                                       |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                               |
| Phase                          | 1                                                              |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                             |
| Agency Approvals               | CSA<br>UR                                                      |
| Ambient Temperature            | 40 °C                                                          |
| Auxillary Box                  | No Auxillary Box                                               |
| Auxillary Box Lead Termination | None                                                           |
| Base Indicator                 | Rigid                                                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                        |
| Blower                         | None                                                           |
| Current @ Voltage              | 24.000 A @ 115.0 V<br>12.600 A @ 208.0 V<br>12.000 A @ 230.0 V |
| Design Code                    | L                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 71.0 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Face Code                | Standard                                                       |
| Front Shaft Indicator          | None                                                           |
| Heater Indicator               | No Heater                                                      |

## Part detail

|              |                     |
|--------------|---------------------|
| Revision     | AJ                  |
| Type         | AC                  |
| Mech. spec.  | 36D001              |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 36WG0117            |
| Layout       | 36LYD001            |
| Eff. date    | 05-09-2024          |
| CD Diagram   | CD0001              |
| Poles        | 04                  |
| Leads        | 4#14 A PH,2#16 B PH |
| Proprietary  | False               |
| Created date | 01-01-0001          |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 12.0 a              |
| Insulation Class              | F                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 4 @ 14 AWG, A PH    |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3628L               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 15.00 IN            |
| Power Factor                  | 68                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 1.125 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1725 rpm            |
| Speed Code                    | Single Speed        |
| Starting Method               | Direct on line      |
| Thermal Device - Bearing      | None                |
| Thermal Device - Winding      | None                |
| Vibration Sensor Indicator    | No Vibration Sensor |
| Winding Thermal 1             | None                |
| Winding Thermal 2             | None                |

## Nameplate

| NP1256L      |              |      |     |      |   |       |   |  |  |
|--------------|--------------|------|-----|------|---|-------|---|--|--|
| CAT.NO.      | L1405T       |      |     |      |   |       |   |  |  |
| SPEC.        | 36D01-117    |      |     |      |   |       |   |  |  |
| HP           | 2            |      |     |      |   |       |   |  |  |
| VOLTS        | 115/230      |      |     |      |   |       |   |  |  |
| AMP          | 24/12        |      |     |      |   |       |   |  |  |
| RPM          | 1725         |      |     |      |   |       |   |  |  |
| FRAME        | 182T         |      | HZ  | 60   |   | PH    | 1 |  |  |
| SER.F.       | 1.15         | CODE | J   | DES  | L | CLASS | F |  |  |
| NEMA-NOM-EFF | 71           | PF   | 68  |      |   |       |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |   |  |  |
| CC           |              |      |     |      |   |       |   |  |  |
| DE           | 6206         |      | ODE | 6205 |   |       |   |  |  |
| ENCL         | OPEN         | SN   |     |      |   |       |   |  |  |
|              |              |      |     |      |   |       |   |  |  |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 36-3403       | C FACE KIT   | A8         |
| 36EP1405A09SP | D-FLANGE KIT |            |

## AC Induction Motor Performance Data

Record # 61432

Typical performance - not guaranteed values

| Winding: 36WG0117-R003 |    |              | Type: 3628L  |                                          | Enclosure: OPEN       |                |                              |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|------------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>High Voltage Connection |                       |                |                              |
| Rated Output (HP)      |    | 2            |              | Full Load Torque                         |                       | 6 LB-FT        |                              |
| Volts                  |    | 115/230      |              | Start Configuration                      |                       | direct on line |                              |
| Full Load Amps         |    | 24/12        |              | Breakdown Torque                         |                       | 16 LB-FT       |                              |
| R.P.M.                 |    | 1725         |              | Pull-up Torque                           |                       | 10.5 LB-FT     |                              |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                      |                       | 18.3 LB-FT     |                              |
| NEMA Design Code       |    | L            | KVA Code     | J                                        | Starting Current      |                | 55 A                         |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 8.5 A          |                              |
| NEMA Nom. Eff.         |    | 71           | Power Factor | 68                                       | Line-line Res. @ 25°C |                | 0.223 Ω A Ph<br>0.977 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 64°C           |                              |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                   |                       | 82°C           |                              |

## Load Characteristics 230 V, 60 Hz, 2 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 34   | 49   | 61   | 70   | 76   | 80   | 74   |
| Efficiency      | 54.4 | 68.6 | 74   | 76.1 | 76.3 | 75.4 | 76.2 |
| Speed           | 1786 | 1774 | 1761 | 1746 | 1730 | 1711 | 1736 |
| Line amperes    | 8.85 | 9.6  | 10.7 | 12.2 | 14   | 16.2 | 13.3 |

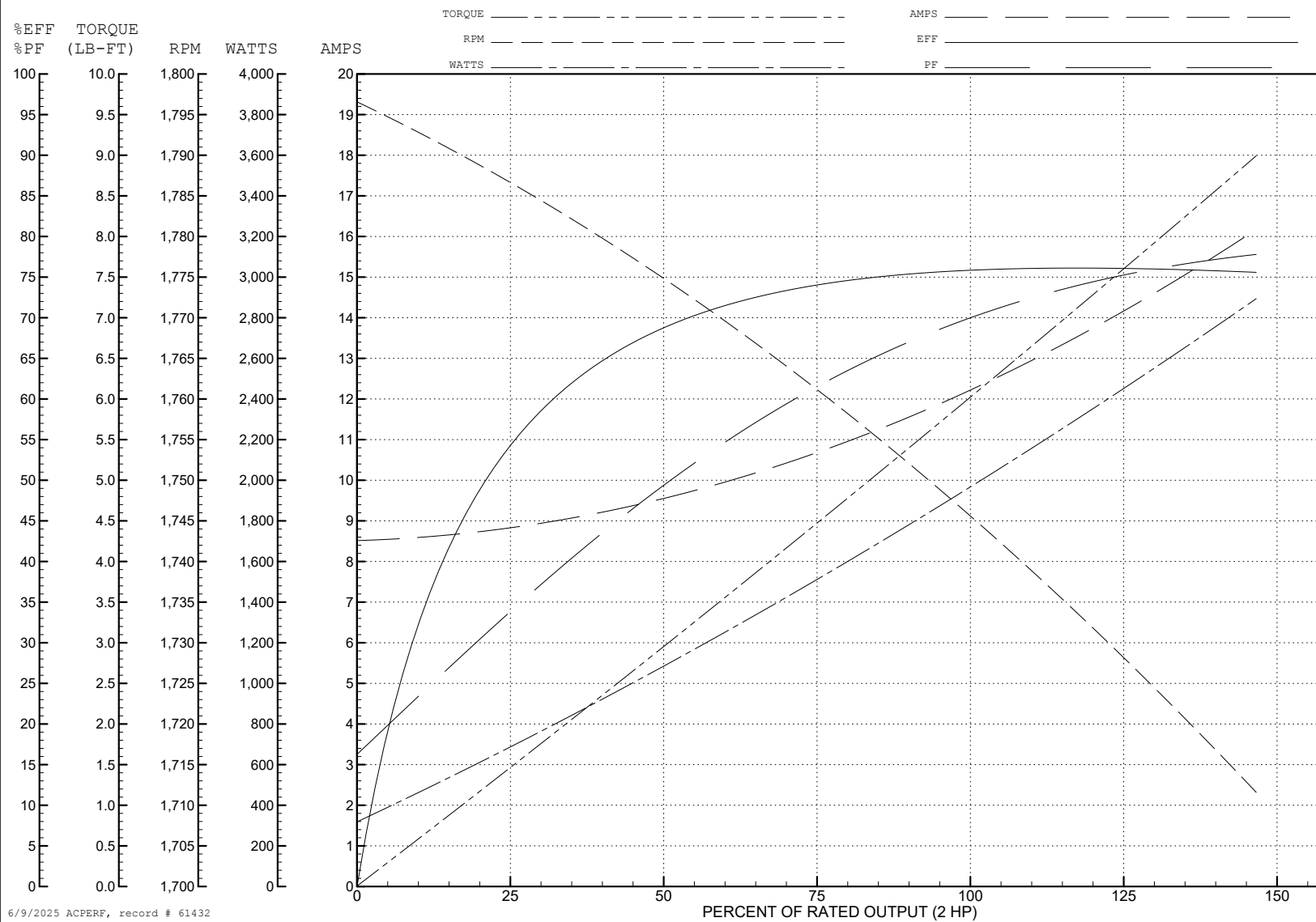
ABB Motors and Mechanical Inc.

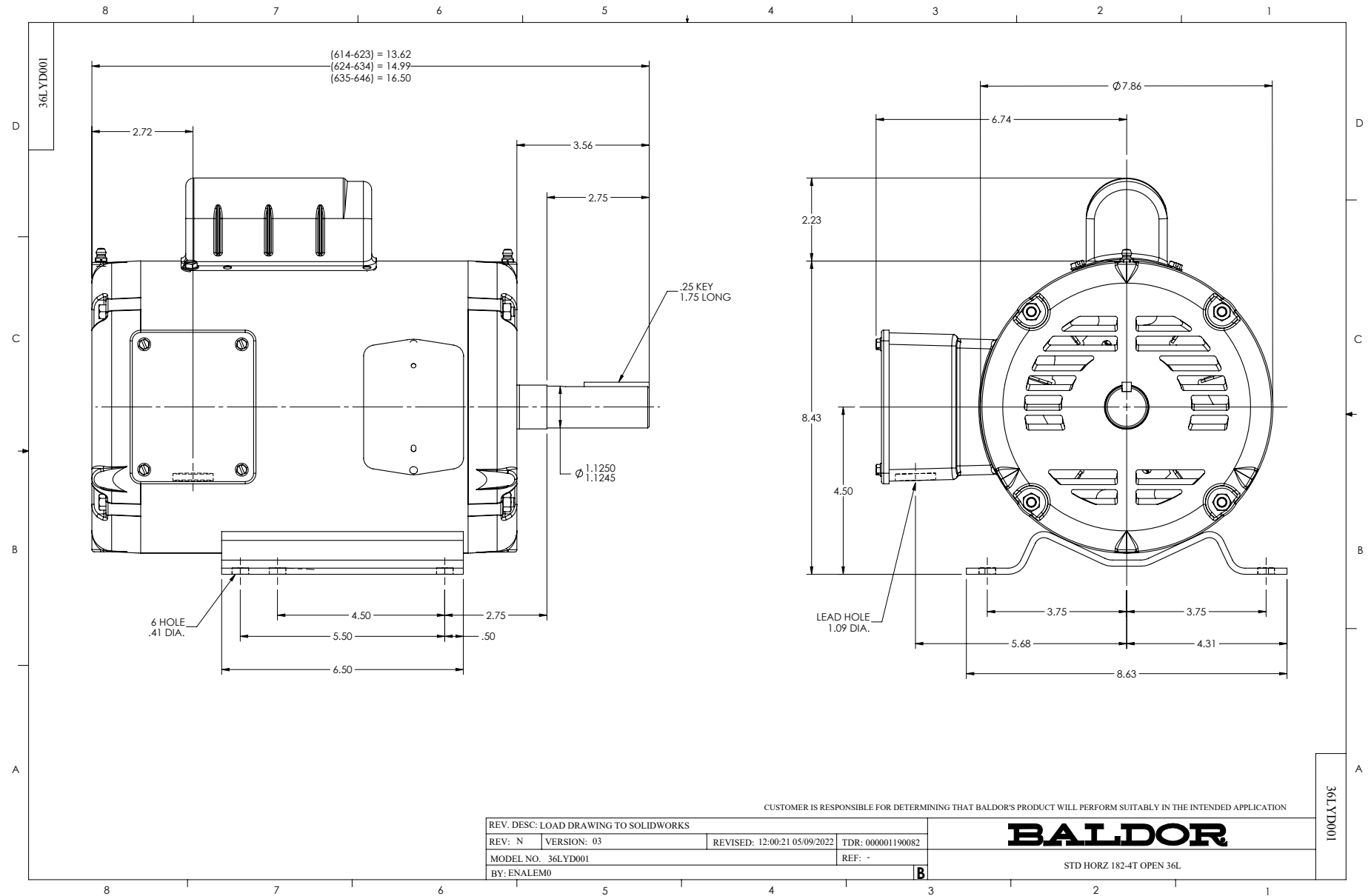
WINDING # 36WG0117

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1725 RPM 230 V 3628L

TORQUES (LB-FT): PO=16 PU=10.5 LR=18.3 LRA=55







CD0001

