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# Customer information packet

## CEM3611T

3HP, 1760RPM, 3PH, 60HZ, 182TC, 3632M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 182TC                                                       |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 3.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | CSA EEV<br>CURUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR   |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 8.400 A @ 230.0 V<br>9.000 A @ 208.0 V<br>4.200 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 89.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |

## Part detail

|              |            |
|--------------|------------|
| Revision     | T          |
| Type         | AC         |
| Mech. spec.  | 36A002     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS266   |
| Layout       | 36LYA002   |
| Eff. date    | 05-21-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 06-29-2011 |

|                               |                    |
|-------------------------------|--------------------|
| Front Face Code               | Standard           |
| Front Shaft Indicator         | None               |
| Heater Indicator              | No Heater          |
| High Voltage Full Load Amps   | 4.2 a              |
| Insulation Class              | F                  |
| Inverter Code                 | Inverter Ready     |
| KVA Code                      | K                  |
| Lifting Lugs                  | No Lifting Lugs    |
| Locked Bearing Indicator      | Locked Bearing     |
| Motor Lead Exit               | Ko Box             |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG         |
| Motor Lead Termination        | Flying Leads       |
| Motor Standards               | NEMA               |
| Motor Type                    | 3632M              |
| Mounting Arrangement          | F1                 |
| Number of Poles               | 4                  |
| Overall Length                | 16.55 IN           |
| Power Factor                  | 75                 |
| Product Family                | General Purpose    |
| Pulley End Bearing Type       | Ball               |
| Pulley Face Code              | C-Face             |
| 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                         | 1760 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

## NP3441LUA

|                            |              |      |             |     |      |       |    |   |   |       |
|----------------------------|--------------|------|-------------|-----|------|-------|----|---|---|-------|
| CAT.NO.                    | CEM3611T     |      |             |     |      |       |    |   |   |       |
| SPEC                       | 36A002S266G1 |      |             |     |      |       |    |   |   |       |
| HP                         | 3            |      |             |     |      |       |    |   |   |       |
| VOLTS                      | 230/460      |      |             |     |      |       |    |   |   |       |
| AMPS                       | 8.4/4.2      |      |             |     |      |       |    |   |   |       |
| RPM                        | 1760         |      |             |     |      |       |    |   |   |       |
| FRAME                      | 182TC        |      | HZ          |     | 60   |       | PH |   | 3 |       |
| SF                         | 1.15         | CODE | K           | DES | B    | CLASS |    | F |   |       |
| NEMA NOM. EFF              | 89.5         |      | PF          | 75  |      |       |    |   |   |       |
| RATING                     | 40C AMB-CONT |      |             |     |      |       |    |   |   |       |
| CC                         | 010A         |      |             |     |      |       |    |   |   |       |
| ENCL                       | TEFC         | SER  |             |     |      |       |    |   |   |       |
| DE                         | 6206         |      | ODE         |     | 6205 |       |    |   |   |       |
| VPWM INVERTER READY        |              |      | SFA 9.1/4.5 |     |      |       |    |   |   |       |
| CT6-60H(10:1)VT3-60H(20:1  |              |      |             |     |      |       |    |   |   |       |
| 50Hz 3HP 190/380V 9.6/4.8A |              |      |             |     |      |       |    |   |   | SF1.0 |

**AC Induction Motor Performance Data**

Record # 53364

Typical performance - not guaranteed values

| Winding: 36WGS266-R006 |    |              | Type: 3632M                              |                           | Enclosure: TEFC       |              |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|--------------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |              |        |
| Rated Output (HP)      |    | 3            | Full Load Torque                         |                           | 8.8 LB-FT             |              |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line        |              |        |
| Full Load Amps         |    | 8.4/4.2      | Breakdown Torque                         |                           | 37.6 LB-FT            |              |        |
| R.P.M.                 |    | 1760         | Pull-up Torque                           |                           | 15.2 LB-FT            |              |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                       | 21.7 LB-FT   |        |
| NEMA Design Code       |    | B            | KVA Code                                 | K                         | Starting Current      |              | 32.7 A |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                       | 2.3 A        |        |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor                             | 75                        | Line-line Res. @ 25°C |              | 3.81 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 44°C         |        |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load    |                       | 52°C         |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 42.2         |        |
|                        |    |              |                                          | Rotor inertia             |                       | 0.298 LB-FT2 |        |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 68   | 75   | 80   | 82   | 77   |
| Efficiency      | 81.1 | 87.8 | 89.6 | 89.8 | 89.7 | 88.2 | 89.2 |
| Speed           | 1791 | 1783 | 1773 | 1764 | 1753 | 1741 | 1754 |
| Line amperes    | 2.47 | 2.85 | 3.43 | 4.09 | 4.89 | 5.78 | 4.63 |

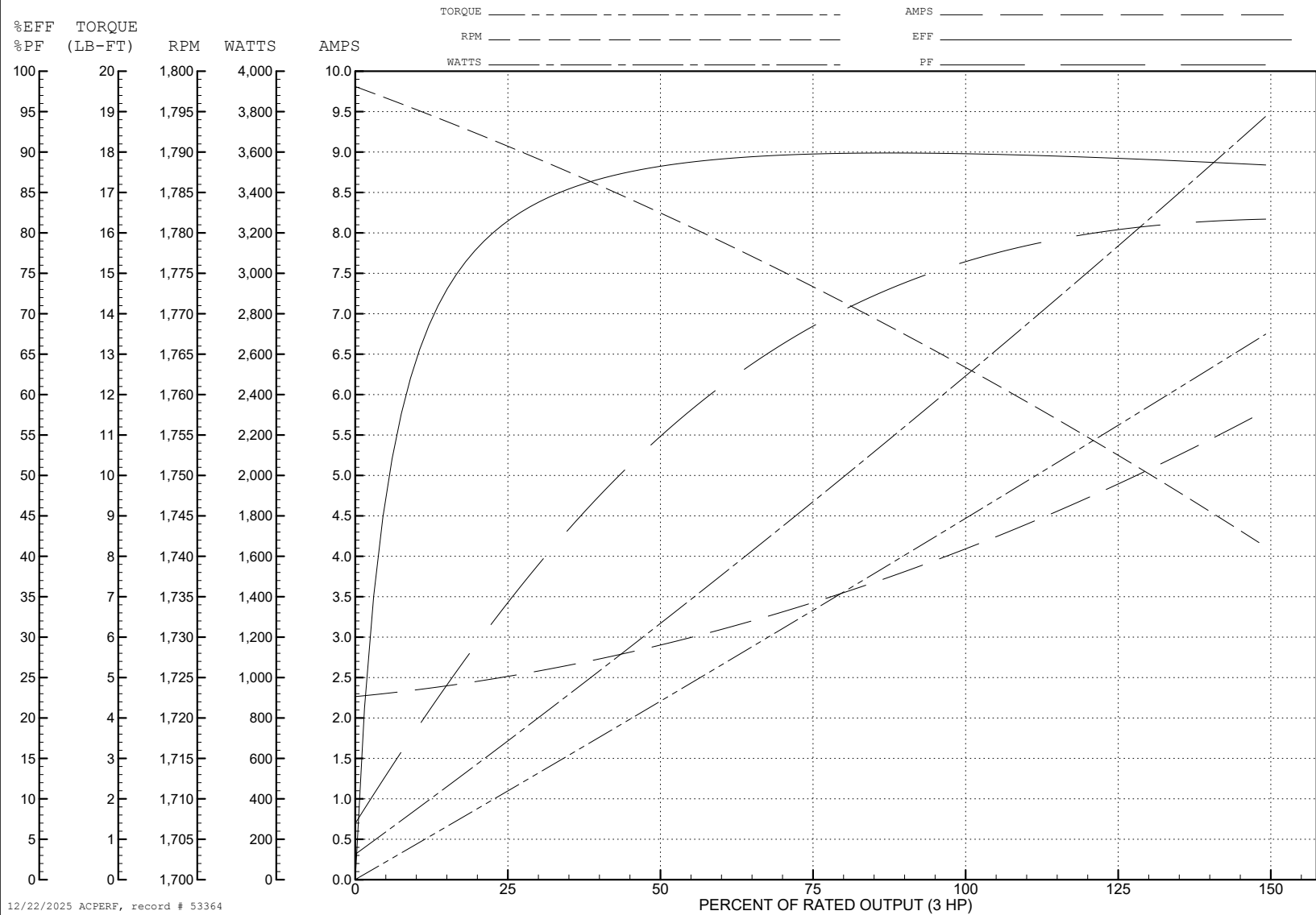
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WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 460 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7



**AC Induction Motor Performance Data**

Record # 57957

Typical performance - not guaranteed values

| Winding: 36WGS266-R006 |    |              | Type: 3632M                             |                           | Enclosure: TEFC       |              |         |
|------------------------|----|--------------|-----------------------------------------|---------------------------|-----------------------|--------------|---------|
| Nameplate Data         |    |              | 230 V, 60 Hz:<br>Low Voltage Connection |                           |                       |              |         |
| Rated Output (HP)      |    | 3            | Full Load Torque                        |                           | 8.8 LB-FT             |              |         |
| Volts                  |    | 230/460      | Start Configuration                     |                           | direct on line        |              |         |
| Full Load Amps         |    | 8.4/4.2      | Breakdown Torque                        |                           | 37.6 LB-FT            |              |         |
| R.P.M.                 |    | 1760         | Pull-up Torque                          |                           | 15.2 LB-FT            |              |         |
| Hz                     | 60 | Phase        | 3                                       | Locked-rotor Torque       |                       | 21.7 LB-FT   |         |
| NEMA Design Code       |    | B            | KVA Code                                | K                         | Starting Current      |              | 65.4 A  |
| Service Factor (S.F.)  |    | 1.15         |                                         | No-load Current           |                       | 4.6 A        |         |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor                            | 75                        | Line-line Res. @ 25°C |              | 0.953 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                         | Temp. Rise @ Rated Load   |                       | 44°C         |         |
| S.F. Amps              |    |              |                                         | Temp. Rise @ S.F. Load    |                       | 52°C         |         |
|                        |    |              |                                         | Locked-rotor Power Factor |                       | 42.2         |         |
|                        |    |              |                                         | Rotor inertia             |                       | 0.298 LB-FT2 |         |

**Load Characteristics 230 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 68   | 75   | 80   | 82   | 78   |
| Efficiency      | 81.1 | 87.8 | 89.6 | 89.8 | 89.7 | 88.2 | 89.7 |
| Speed           | 1791 | 1783 | 1773 | 1764 | 1753 | 1741 | 1757 |
| Line amperes    | 4.94 | 5.7  | 6.86 | 8.18 | 9.78 | 11.6 | 9.14 |

ABB Motors and Mechanical Inc.

WINDING # 36WGS266

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 230 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=65.4

