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# Customer information packet

## VEM3611

3HP, 1760RPM, 3PH, 60HZ, 184C, 3632M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 184C                                                        |
| 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               | NEMA PREMIUM<br>CURUSEEV                                    |
| Ambient Temperature            | 40 °C                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 4.200 A @ 460.0 V<br>8.400 A @ 230.0 V<br>9.000 A @ 208.0 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                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | P          |
| Type         | AC         |
| Mech. spec.  | 36A013     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS266   |
| Layout       | 36LYA013   |
| Eff. date    | 05-21-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 02-27-2015 |

|                               |                     |
|-------------------------------|---------------------|
| 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                | 15.67 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                |
| RoHS Status                   | ROHS COMPLIANT      |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.875 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 |
|-------------------|------|

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## Nameplate

| NP1259L      |              |      |     |      |   |    |    |   |  |
|--------------|--------------|------|-----|------|---|----|----|---|--|
| CAT.NO.      | VEM3611      |      |     |      |   |    |    |   |  |
| SPEC.        | 36A013S266G3 |      |     |      |   |    |    |   |  |
| HP           | 3            |      |     |      |   |    |    |   |  |
| VOLTS        | 230/460      |      |     |      |   |    |    |   |  |
| AMP          | 8.4/4.2      |      |     |      |   |    |    |   |  |
| RPM          | 1760         |      |     |      |   |    |    |   |  |
| FRAME        | 184C         |      | HZ  | 60   |   |    | PH | 3 |  |
| SER.F.       | 1.15         | CODE | K   | DES  | B | CL | F  |   |  |
| NEMA-NOM-EFF | 89.5         | PF   | 75  |      |   |    |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |    |   |  |
| CC           | 010A         |      |     |      |   |    |    |   |  |
| DE           | 6206         |      | ODE | 6205 |   |    |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |    |    |   |  |
|              | SFA 9.1/4.5  |      |     |      |   |    |    |   |  |

## 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 |

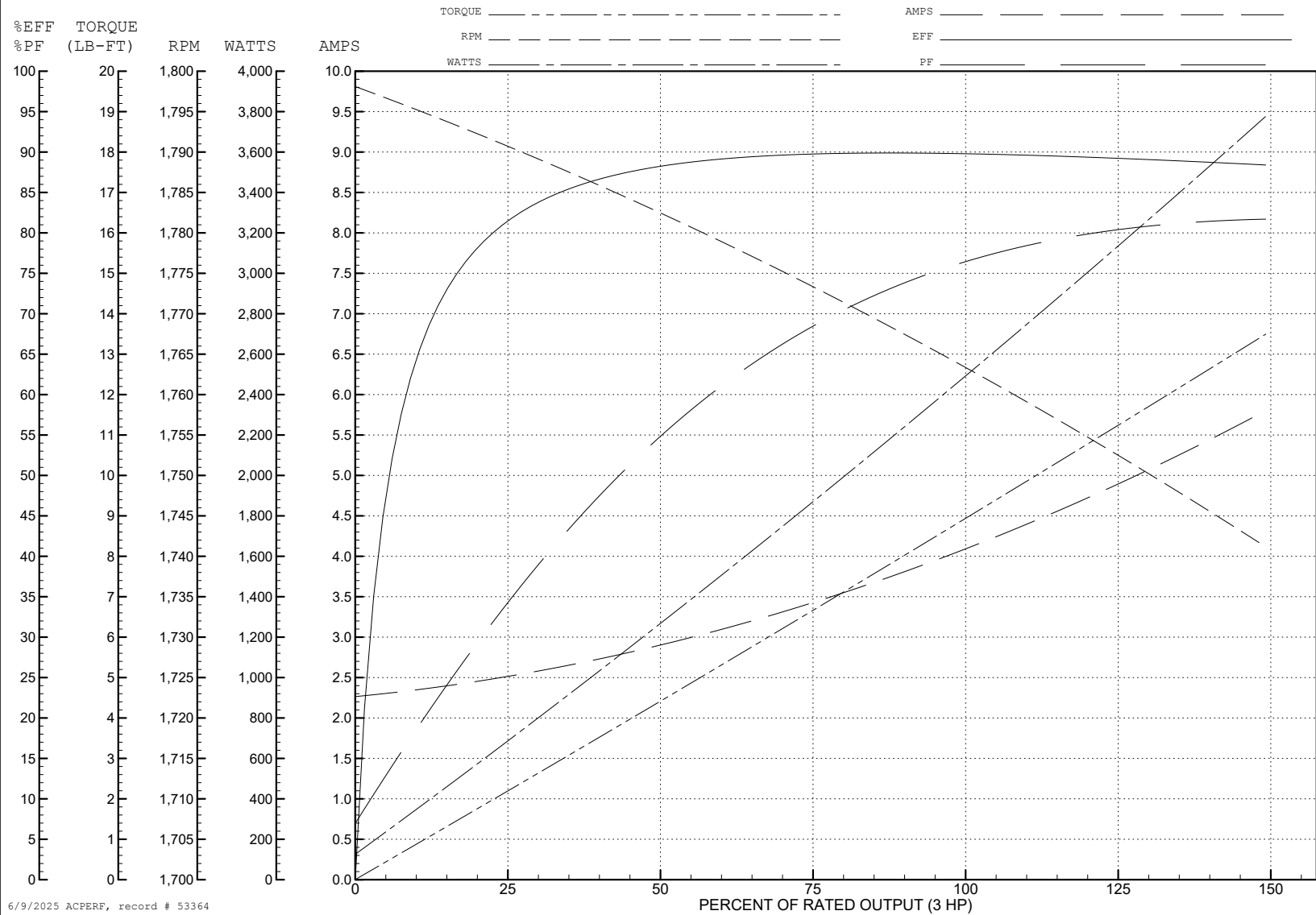
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WINDING # 36WGS266

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

