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# Customer information packet

## VFSWDNM3611T-E

3HP, 1750RPM, 3PH, 60HZ, 182TC, 3646M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 182TC                                                       |
| Frame Material                 | Stainless 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            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | CSA<br>NEMA PREMIUM<br>UR                                   |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 8.000 A @ 230.0 V<br>8.600 A @ 208.0 V<br>4.000 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                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | Q          |
| Type         | AC         |
| Mech. spec.  | 36R540     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGR704   |
| Layout       | 36LYR540   |
| Eff. date    | 11-25-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 07-14-2017 |

|                               |                        |
|-------------------------------|------------------------|
| Heater Indicator              | No Heater              |
| High Voltage Full Load Amps   | 4.0 a                  |
| Insulation Class              | H                      |
| Inverter Code                 | Inverter Ready         |
| KVA Code                      | K                      |
| Lifting Lugs                  | Standard 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                    | 3646M                  |
| Mounting Arrangement          | F1                     |
| Number of Poles               | 4                      |
| Overall Length                | 17.05 IN               |
| Power Factor                  | 79                     |
| Product Family                | WD All SS Encapsulated |
| Pulley End Bearing Type       | Sealed Bearing         |
| Pulley Face Code              | C-Face                 |
| Pulley Shaft Indicator        | Standard               |
| Rodent Screen                 | None                   |
| RoHS Status                   | ROHS COMPLIANT         |
| 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       | Shaft Slinger          |
| Speed                         | 1750 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 |



**AC Induction Motor Performance Data**

Record # 52326

Typical performance - not guaranteed values

| Winding: 36WGR704-R001 |    |         | Type: 3646M                              |                     | Enclosure: TENV         |            |          |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|------------|----------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |          |
| Rated Output (HP)      |    | 3       | Full Load Torque                         |                     | 9.03 LB-FT              |            |          |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |            |          |
| Full Load Amps         |    | 8/4     | Breakdown Torque                         |                     | 33.1 LB-FT              |            |          |
| R.P.M.                 |    | 1750    | Pull-up Torque                           |                     | 19.1 LB-FT              |            |          |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 22.4 LB-FT |          |
| NEMA Design Code       |    | B       | KVA Code                                 | K                   | Starting Current        |            | 30.9 A   |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.96 A                  |            |          |
| NEMA Nom. Eff.         |    | 89.5    | Power Factor                             | 76                  | Line-line Res. @ 25°C   |            | 3.4828 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 101°C    |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load  |            | 125°C    |

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

| % of Rated Load | 25     | 50     | 75   | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|------|--------|--------|--------|------|
| Power Factor    | 40     | 61     | 72   | 79     | 82     | 84     | 81   |
| Efficiency      | 85.2   | 89.7   | 90.2 | 89.7   | 88.5   | 86.9   | 89   |
| Speed           | 1788.3 | 1777.8 | 1766 | 1753.9 | 1740.2 | 1724.1 | 1746 |
| Line amperes    | 2.17   | 2.62   | 3.3  | 4      | 4.85   | 5.82   | 4.51 |

ABB Motors and Mechanical Inc.

WINDING # 36WGR704

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

TORQUES (LB-FT): PO=33.1 PU=19.1 LR=22.4 LRA=30.9







