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# Customer information packet

## VEM3156T

1HP, 1170RPM, 3PH, 60HZ, 145TC, 3526M, ODP, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Enclosure                      | ODP                                           |
| Frame                          | 145TC                                         |
| 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             | 1.000 HP @ 60 HZ                              |
| Phase                          | 3                                             |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                              |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ            |
| Agency Approvals               | NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CSA EEV |
| 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              | 1.500 A @ 460.0 V<br>3.000 A @ 230.0 V        |
| Design Code                    | B                                             |
| Drip Cover                     | No Drip Cover                                 |
| Duty Rating                    | CONT                                          |
| Efficiency @ 100% Load         | 82.5 %                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                     |
| Feedback Device                | NO FEEDBACK                                   |
| Front Shaft Indicator          | None                                          |
| Heater Indicator               | No Heater                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  | 35Z413     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG019   |
| Layout       | 35LYZ413   |
| Eff. date    | 09-19-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18 Y     |
| Proprietary  | False      |
| Created date | 09-09-2022 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 1.5 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3526M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 6                   |
| Overall Length                | 13.25 IN            |
| Power Factor                  | 67                  |
| 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                | 0.875 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1170 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

| NP1259LUA      |              |      |      |      |   |  |       |   |  |
|----------------|--------------|------|------|------|---|--|-------|---|--|
| CAT.NO.        | VEM3156T     |      |      |      |   |  |       |   |  |
| SPEC.          | 35Z413G019G1 |      |      |      |   |  |       |   |  |
| HP             | 1            |      |      |      |   |  |       |   |  |
| VOLTS          | 230/460      |      |      |      |   |  |       |   |  |
| AMPS           | 3/1.5        |      |      |      |   |  |       |   |  |
| R.P.M.         | 1170         |      |      |      |   |  |       |   |  |
| FRAME          | 145TC        |      | HZ   | 60   |   |  | PH    | 3 |  |
| SER.F.         | 1.15         | CODE | J    | DES  | B |  | CLASS | F |  |
| NEMA NOM. EFF. | 82.5         |      | P.F. | 67   |   |  |       |   |  |
| RATING         | 40C AMB-CONT |      |      |      |   |  |       |   |  |
| CC             | 010A         |      |      |      |   |  |       |   |  |
| DE             | 6205         |      | ODE  | 6203 |   |  |       |   |  |
| ENCL           | ODP          | SN   |      |      |   |  |       |   |  |
| USABLE AT      | N/A          |      |      |      |   |  |       |   |  |

**AC Induction Motor Performance Data**

Record # 82288

Typical performance - not guaranteed values

| Winding: 35WGG019-R003 |    |              | Type: 3526M                              |                           | Enclosure: OPEN  |                       |        |          |
|------------------------|----|--------------|------------------------------------------|---------------------------|------------------|-----------------------|--------|----------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                  |                       |        |          |
| Rated Output (HP)      |    | 1            | Full Load Torque                         |                           | 4.479 LB-FT      |                       |        |          |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line   |                       |        |          |
| Full Load Amps         |    | 3.0/1.5      | Breakdown Torque                         |                           | 11.9 LB-FT       |                       |        |          |
| R.P.M.                 |    | 1155         | Pull-up Torque                           |                           | 7.06 LB-FT       |                       |        |          |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                  | 8.62 LB-FT            |        |          |
| NEMA Design Code       |    | B            | KVA Code                                 | J                         | Starting Current |                       | 9.06 A |          |
| Service Factor (S.F.)  |    | 1.15         | No-load Current                          |                           | 1.02 A           |                       |        |          |
| NEMA Nom. Eff.         |    | 0            | Power Factor                             |                           | 0                | Line-line Res. @ 25°C |        | 20.372 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                  | 46°C                  |        |          |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load    |                  | 56°C                  |        |          |
|                        |    |              |                                          | Locked-rotor Power Factor |                  | 48                    |        |          |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150  | S.F. |
|-----------------|--------|--------|--------|--------|------|------|------|
| Power Factor    | 29     | 47     | 1      | 1      | 1    | 1    | 1    |
| Efficiency      | 73.5   | 81.9   | 83.5   | 83.1   | 81.6 | 79.1 | 82.2 |
| Speed           | 1192.5 | 1185.4 | 1177.6 | 1168.7 | 1159 | 1147 | 1163 |
| Line amperes    | 1.07   | 1.21   | 1.41   | 1.67   | 1.98 | 2.35 | 1.86 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06





