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# Customer information packet

## VEM2333T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 254TC                                                          |
| Frame Material                 | Iron                                                           |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 15.000 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>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR                  |
| 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              | 38.000 A @ 208.0 V<br>36.200 A @ 230.0 V<br>18.100 A @ 460.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 92.4 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Shaft Indicator          | None                                                           |

## Part detail

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  | 09C103     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGT597   |
| Layout       | 09LYC103   |
| Eff. date    | 05-14-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#12       |
| Proprietary  | False      |
| Created date | 02-02-2021 |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 18.1 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Quantity/Wire Size | 9 @ 12 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0944M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 23.86 IN              |
| Power Factor                  | 84                    |
| 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                | 1.625 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1765 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.                       | VEM2333T     |      |             |     |      |       |    |   |   |       |
| SPEC                          | 09C103T597G3 |      |             |     |      |       |    |   |   |       |
| HP                            | 15           |      |             |     |      |       |    |   |   |       |
| VOLTS                         | 230/460      |      |             |     |      |       |    |   |   |       |
| AMPS                          | 36.2/18.1    |      |             |     |      |       |    |   |   |       |
| RPM                           | 1765         |      |             |     |      |       |    |   |   |       |
| FRAME                         | 254TC        |      | HZ          |     | 60   |       | PH |   | 3 |       |
| SF                            | 1.15         | CODE | H           | DES | A    | CLASS |    | F |   |       |
| NEMA NOM. EFF                 | 92.4         |      | PF          | 84  |      |       |    |   |   |       |
| RATING                        | 40C AMB-CONT |      |             |     |      |       |    |   |   |       |
| CC                            | 010A         |      |             |     |      |       |    |   |   |       |
| ENCL                          | TEFC         | SER  |             |     |      |       |    |   |   |       |
| DE                            | 6309         |      | ODE         |     | 6208 |       |    |   |   |       |
| VPWM INVERTER READY           |              |      | SFA 41/20.4 |     |      |       |    |   |   |       |
| CT6-60H(10:1)VT3-60H(20:1     |              |      |             |     |      |       |    |   |   |       |
| 50HZ 15HP 190/380V 42.2/21.1A |              |      |             |     |      |       |    |   |   | SF1.0 |

**AC Induction Motor Performance Data**

Record # 93306

Typical performance - not guaranteed values

| Winding: 09WGT597-R001 |    |              |              | Type: 0944M                              |                       | Enclosure: TEFC |           |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|-----------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                 |           |
| Rated Output (HP)      |    | 15           |              | Full Load Torque                         |                       | 44.59 LB-FT     |           |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line  |           |
| Full Load Amps         |    | 36.2/18.1    |              | Breakdown Torque                         |                       | 151 LB-FT       |           |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                           |                       | 76.5 LB-FT      |           |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 84.9 LB-FT      |           |
| NEMA Design Code       |    | A            | KVA Code     | H                                        | Starting Current      |                 | 131 A     |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 7.72 A          |           |
| NEMA Nom. Eff.         |    | 92.4         | Power Factor | 84                                       | Line-line Res. @ 25°C |                 | 0.61892 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 50°C            |           |
| S.F. Amps              |    | 41/20.4      |              | Temp. Rise @ S.F. Load                   |                       | 61°C            |           |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 33.3            |           |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| % of Rated Load | 25     | 50     | 75   | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|------|--------|--------|--------|------|
| Power Factor    | 46     | 68     | 78   | 83     | 85     | 86     | 84   |
| Efficiency      | 87.5   | 91.8   | 92.6 | 92.4   | 91.8   | 90.8   | 92   |
| Speed           | 1791.8 | 1784.7 | 1777 | 1768.8 | 1759.2 | 1749.3 | 1763 |
| Line amperes    | 8.82   | 11.3   | 14.6 | 18.3   | 22.4   | 26.9   | 20.8 |

ABB Motors and Mechanical Inc.

WINDING # 09WGT597

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=151 PU=76.5 LR=84.9 LRA=131





