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# Customer information packet

## VECP2333T

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

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 254TC                                                          |
| Frame Material                 | Iron                                                           |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | CL I GP A,B,C,D                                                |
| Haz Area Division              | Division II                                                    |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 15.000 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               | CCSA US<br>CSA EEV<br>NEMA PREMIUM<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              | 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                     | Drip Cover                                                     |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 92.4 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |

## Part detail

|              |            |
|--------------|------------|
| Revision     | G          |
| Type         | AC         |
| Mech. spec.  | 09H181     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGT597   |
| Layout       | 09LYH181   |
| Eff. date    | 09-16-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#12       |
| Proprietary  | False      |
| Created date | 02-02-2021 |

|                               |                             |
|-------------------------------|-----------------------------|
| Front Shaft Indicator         | None                        |
| Heater Indicator              | No Heater                   |
| High Voltage Full Load Amps   | 18.1 a                      |
| Insulation Class              | F                           |
| Inverter Code                 | Inverter Duty               |
| KVA Code                      | H                           |
| Lifting Lugs                  | Standard Lifting Lugs       |
| Locked Bearing Indicator      | Locked Bearing              |
| Max Speed                     | 2700 rpm                    |
| 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                | 27.41 IN                    |
| Power Factor                  | 84                          |
| Product Family                | Super-E Chemical Processing |
| 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

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## Nameplate

| NP3995ABAL                |  |                               |  |                  |  |                       |  |                |  |           |  |                         |  |
|---------------------------|--|-------------------------------|--|------------------|--|-----------------------|--|----------------|--|-----------|--|-------------------------|--|
| CAT #                     |  | VECP2333T                     |  |                  |  | SER                   |  |                |  | CC        |  | 010A                    |  |
| SPEC                      |  | 09H181T597                    |  |                  |  | RATING                |  | 40C AMB-CONT   |  |           |  |                         |  |
| HZ                        |  | VOLTS                         |  | AMPS             |  | RPM                   |  | HP             |  | CODE      |  | SF DES PF NEMA NOM. EFF |  |
| 60                        |  | 230/460                       |  | 36.2/18.1        |  | 1765                  |  | 15             |  | H         |  | 1.15 A 84 % 92.4 %      |  |
|                           |  |                               |  |                  |  |                       |  |                |  |           |  |                         |  |
| PH 3                      |  | CL F                          |  | MAX RPM 2700     |  | MAX CORR KVAR 3.8     |  | USABLE AT 208V |  | N/A       |  |                         |  |
| IP55                      |  | FR 254TC                      |  | ENCL TEFC        |  | DE BRG 6309           |  | ODE BRG 6309   |  |           |  |                         |  |
| GREASE                    |  | POLYREX EM                    |  |                  |  |                       |  | MTR WT 314     |  | LBS       |  |                         |  |
| USABLE AT                 |  | 50HZ 10HP 190/380V 30.4/15.2A |  |                  |  |                       |  | SF1.0          |  |           |  |                         |  |
|                           |  |                               |  |                  |  |                       |  |                |  |           |  |                         |  |
|                           |  |                               |  |                  |  |                       |  |                |  |           |  |                         |  |
|                           |  |                               |  |                  |  |                       |  |                |  |           |  |                         |  |
|                           |  |                               |  |                  |  |                       |  |                |  |           |  |                         |  |
| CL I DIV 2 GRPS A,B,C,D   |  |                               |  | CL I ZONE 2 GRPS |  |                       |  | IIA,IIB,IIC    |  |           |  | TEMP T 160 C            |  |
| 1.0 SF ON PWM INVERTER    |  |                               |  | POWER            |  | INV TEMP CL 180       |  | C              |  |           |  |                         |  |
| CHP 60-90                 |  | HZ 1.5:1                      |  | CT 1.2-60        |  | HZ 50:1               |  | VT 0-60        |  | HZ 1000:1 |  |                         |  |
| SPACE HEATER LEADS H1-H2: |  |                               |  | TIE LIKE NUMBERS |  |                       |  | TOGETHER       |  |           |  |                         |  |
| V                         |  | A                             |  | W                |  | MAX SPACE HEATER TEMP |  |                |  |           |  |                         |  |

## AC Induction Motor Performance Data

Record # 86511

Preliminary Data Sheet

| Winding: 09WGT597-R006 |    |           | Type: 0944M                              |                     | Enclosure: TEFC         |            |        |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------|--------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |        |
| Rated Output (HP)      |    | 15        | Full Load Torque                         |                     | 44.5 LB-FT              |            |        |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |            |        |
| Full Load Amps         |    | 36.2/18.1 | Breakdown Torque                         |                     | 154 LB-FT               |            |        |
| R.P.M.                 |    | 1765      | Pull-up Torque                           |                     | 67.2 LB-FT              |            |        |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 83.5 LB-FT |        |
| NEMA Design Code       |    | A         | KVA Code                                 | H                   | Starting Current        |            | 129 A  |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 7.32 A                  |            |        |
| NEMA Nom. Eff.         |    | 92.4      | Power Factor                             | 84                  | Line-line Res. @ 25°C   |            | 0.61 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 52°C   |
| S.F. Amps              |    | 41.0/20.5 | Temp. Rise @ S.F. Load                   |                     | 67°C                    |            |        |
|                        |    |           | Locked-rotor Power Factor                |                     | 38.1                    |            |        |
|                        |    |           | Rotor inertia                            |                     | 1.92 lb-ft²             |            |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 48   | 69   | 79   | 84   | 86   | 87   | 86   |
| Efficiency      | 88   | 92.1 | 92.7 | 92.5 | 91.7 | 90.7 | 91.9 |
| Speed           | 1792 | 1785 | 1777 | 1768 | 1759 | 1749 | 1761 |
| Line amperes    | 8.45 | 11   | 14.3 | 18.1 | 22.2 | 26.7 | 20.5 |

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=154 PU=67.2 LR=83.5 LRA=129





