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# Customer information packet

## VSPM3156T

1HP, 1170RPM, 3PH, 60HZ, 145TC, 3532M, OPSB, 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            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | CURUSEEV<br>NEMA_PREMIUM<br>WEEE                            |
| 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              | 3.320 A @ 230.0 V<br>3.500 A @ 208.0 V<br>1.660 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 84.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35E6388    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG824   |
| Layout       | 35LYE6388  |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-05-2024 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 1.7 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Duty       |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Max Speed                     | 1800 rpm            |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3532M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 6                   |
| Overall Length                | 13.00 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                |
| RoHS Status                   | ROHS COMPLIANT      |
| 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

| NP4423A01A01L |               |         |           |      |    |               |       |     |     |       |  |  |  |  |
|---------------|---------------|---------|-----------|------|----|---------------|-------|-----|-----|-------|--|--|--|--|
| CAT #         | VSPM3156T     |         |           |      |    | WGT           | 47    | LBS |     |       |  |  |  |  |
| SPEC          | 35E6388G824   |         |           |      |    | ENCL          | OPSB  |     |     |       |  |  |  |  |
| SER #         |               |         |           |      |    | CC            | 010A  | IP  | 23  |       |  |  |  |  |
| HP            | 1             | MAG CUR |           |      |    | 2.06/1.03     |       |     |     |       |  |  |  |  |
| VOLTS         | 230/460       |         |           |      |    | NEMA NOM. EFF |       |     |     | 84    |  |  |  |  |
| AMPS          | 3.32/1.66     |         |           |      |    | PF            | 67    |     |     |       |  |  |  |  |
| RATING        | 40C AMB-CONT  |         |           |      |    |               |       |     |     |       |  |  |  |  |
| RPM           | 1170          |         |           |      |    | MAX RPM       | 1800  |     |     |       |  |  |  |  |
| FRAME         | 145TC         | HZ      | 60        | CODE |    | J             | CLASS | F   |     |       |  |  |  |  |
| SER.F.        | 1.15          | SF AMP  | 3.68/1.84 |      |    |               | PH    | 3   | DES | B     |  |  |  |  |
| DE            | 6205          |         | ODE       | 6203 |    |               |       |     |     |       |  |  |  |  |
| LUBRICATION   | POLYREX EM    |         |           |      |    |               |       |     |     |       |  |  |  |  |
| ID LOGO       | INVERTER TYPE |         |           | VPWM |    | CHP           | 60    | TO  | 90  | 1.5:1 |  |  |  |  |
| ID LOGO       | WK2           | 0.232   | CT        | 6    | TO | 60            | 10:1  |     |     |       |  |  |  |  |
| ID LOGO       | SL HZ         | 1.57    | VT        | 3    | TO | 60            | 20:1  |     |     |       |  |  |  |  |
|               |               |         |           |      |    |               |       |     |     |       |  |  |  |  |
|               |               |         |           |      |    |               |       |     |     |       |  |  |  |  |
|               |               |         |           |      |    |               |       |     |     |       |  |  |  |  |
|               |               |         |           |      |    |               |       |     |     |       |  |  |  |  |
|               |               |         |           |      |    |               |       |     |     |       |  |  |  |  |
|               |               |         |           |      |    | QR            |       |     |     |       |  |  |  |  |
| YR            |               |         |           |      |    |               |       |     |     |       |  |  |  |  |

## AC Induction Motor Performance Data

Record # 100797

Typical performance - not guaranteed values

| Winding: 35WGG824-R002 |    |              | Type: 3532M                              |                           | Enclosure: ODP        |              |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|--------------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |              |        |
| Rated Output (HP)      |    | 1            | Full Load Torque                         |                           | 4.47 LB-FT            |              |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line        |              |        |
| Full Load Amps         |    | 2.06/1.03    | Breakdown Torque                         |                           | 12.7 LB-FT            |              |        |
| R.P.M.                 |    | 1170         | Pull-up Torque                           |                           | 7.4 LB-FT             |              |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                       | 9 LB-FT      |        |
| NEMA Design Code       |    | B            | KVA Code                                 | J                         | Starting Current      |              | 9.5 A  |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                       | 1.03 A       |        |
| NEMA Nom. Eff.         |    | 84           | Power Factor                             | 67                        | Line-line Res. @ 25°C |              | 18.3 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 34°C         |        |
| S.F. Amps              |    | 3.68/1.84    |                                          | Temp. Rise @ S.F. Load    |                       | 50°C         |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 45.8         |        |
|                        |    |              |                                          | Rotor inertia             |                       | 0.232 lb-ft² |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 29   | 46   | 59   | 67   | 72   | 75   | 70   |
| Efficiency      | 74.5 | 82.7 | 84.4 | 84.2 | 82.9 | 80.7 | 83.4 |
| Speed           | 1193 | 1186 | 1179 | 1171 | 1162 | 1151 | 1166 |
| Line amperes    | 1.08 | 1.21 | 1.41 | 1.66 | 1.96 | 2.32 | 1.84 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG824

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1170 RPM 460 V 3532M

TORQUES (LB-FT): PO=12.7 PU=7.4 LR=9 LRA=9.5





