



---

# Customer information packet

## VSPM3541

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3424M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TEFC                                   |
| Frame                          | 56C                                    |
| 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             | .750 HP @ 60 HZ                        |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | CURUS<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              | 2.000 A @ 230.0 V<br>1.000 A @ 460.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 80.0 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 1.0 a                                  |
| Insulation Class               | F                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 34N585     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WGW715   |
| Layout       | 34LYN585   |
| Eff. date    | 03-04-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 03-07-2024 |

|                               |                     |
|-------------------------------|---------------------|
| Inverter Code                 | Not Inverter        |
| KVA Code                      | L                   |
| 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                    | 3424M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 11.97 IN            |
| Power Factor                  | 81                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.25                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 3450 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 # 100843

Typical performance - not guaranteed values

| Winding: 34WGW715-R015 |    |              | Type: 3424M  |                                          | Enclosure: TEFC |                       |      |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|-----------------------|------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                       |      |
| Rated Output (HP)      |    | .75          |              | Full Load Torque                         |                 | 1.1 LB-FT             |      |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line        |      |
| Full Load Amps         |    | 2/1          |              | Breakdown Torque                         |                 | 5.4 LB-FT             |      |
| R.P.M.                 |    | 3450         |              | Pull-up Torque                           |                 | 4 LB-FT               |      |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 5.2 LB-FT             |      |
| NEMA Design Code       |    | B            | KVA Code     | L                                        |                 | Starting Current      | 9 A  |
| Service Factor (S.F.)  |    | 1.25         |              | No-load Current                          |                 | 0.53 A                |      |
| NEMA Nom. Eff.         |    | 80           | Power Factor | 81                                       |                 | Line-line Res. @ 25°C | 15 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 50°C                  |      |
| S.F. Amps              |    | 2.4/1.2      |              | Temp. Rise @ S.F. Load                   |                 | 60°C                  |      |
|                        |    |              |              | Locked-rotor Power Factor                |                 | 62.1                  |      |
|                        |    |              |              | Rotor inertia                            |                 | 0.0223 lb-ft²         |      |

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 47   | 66   | 76   | 81   | 84   | 85   | 84   |
| Efficiency      | 62.6 | 75   | 79.6 | 81.3 | 81.7 | 81.3 | 81.7 |
| Speed           | 3559 | 3526 | 3491 | 3455 | 3415 | 3373 | 3415 |
| Line amperes    | 0.59 | 0.7  | 0.85 | 1.03 | 1.22 | 1.44 | 1.22 |

ABB Motors and Mechanical Inc.

WINDING # 34WG715

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

TORQUES (LB-FT) : PO=5.4 PU=4 LR=5.2 LRA=9





