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# Customer information packet

## SPM3543

.75HP, 1175RPM, 3PH, 60HZ, 56H, 3526M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 56H                                                         |
| 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  | 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                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 2.800 A @ 230.0 V<br>3.500 A @ 208.0 V<br>1.400 A @ 460.0 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     | B          |
| Type         | AC         |
| Mech. spec.  | 35E6271    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG019   |
| Layout       | 35LYE6271  |
| Eff. date    | 06-07-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 09-08-2023 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 1.4 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | L                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Max Speed                     | 1800 rpm            |
| 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                | 12.91 IN            |
| Power Factor                  | 60                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| RoHS Status                   | ROHS COMPLIANT      |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1175 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 #         | SPM3543       |        |    |         |      | WGT           | 41   |       | LBS |    |      |  |       |
| SPEC          | 35E6271G019   |        |    |         |      | ENCL          | TEFC |       |     |    |      |  |       |
| SER #         |               |        |    |         |      | CC            | 010A |       | IP  | 54 |      |  |       |
| HP            | .75           |        |    | MAG CUR |      | 2/1           |      |       |     |    |      |  |       |
| VOLTS         | 230/460       |        |    |         |      | NEMA NOM. EFF |      |       |     |    | 82.5 |  |       |
| AMPS          | 2.8/1.4       |        |    |         |      |               | PF   | 60    |     |    |      |  |       |
| RATING        | 40C AMB-CONT  |        |    |         |      |               |      |       |     |    |      |  |       |
| RPM           | 1175          |        |    |         |      | MAX RPM       |      | 1800  |     |    |      |  |       |
| FRAME         | 56H           |        | HZ | 60      |      | CODE          | L    | CLASS |     | F  |      |  |       |
| SER.F.        | 1.15          | SF AMP |    | 3/1.5   |      |               | 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           | 0.189  | 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 # 100851

Typical performance - not guaranteed values

| Winding: 35WGG019-R017 |    |         | Type: 3526M                              |                     | Enclosure: TEFC         |                       |       |        |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|-----------------------|-------|--------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |       |        |
| Rated Output (HP)      |    | .75     | Full Load Torque                         |                     | 3.34 LB-FT              |                       |       |        |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |                       |       |        |
| Full Load Amps         |    | 2.8/1.4 | Breakdown Torque                         |                     | 11.9 LB-FT              |                       |       |        |
| R.P.M.                 |    | 1175    | Pull-up Torque                           |                     | 7.1 LB-FT               |                       |       |        |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 8.6 LB-FT             |       |        |
| NEMA Design Code       |    | B       | KVA Code                                 | L                   | Starting Current        |                       | 9.1 A |        |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.02 A                  |                       |       |        |
| NEMA Nom. Eff.         |    | 82.5    | Power Factor                             |                     | 60                      | Line-line Res. @ 25°C |       | 21.1 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 35°C  |        |
| S.F. Amps              |    | 3/1.5   | Temp. Rise @ S.F. Load                   |                     | 40°C                    |                       |       |        |
|                        |    |         | Locked-rotor Power Factor                |                     | 48.3                    |                       |       |        |
|                        |    |         | Rotor inertia                            |                     | 0.189 lb-ft²            |                       |       |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 25   | 39   | 51   | 60   | 66   | 71   | 64   |
| Efficiency      | 68.1 | 78.7 | 81.8 | 82.8 | 82.2 | 80.9 | 82.4 |
| Speed           | 1194 | 1189 | 1183 | 1176 | 1169 | 1161 | 1172 |
| Line amperes    | 1.05 | 1.14 | 1.26 | 1.42 | 1.61 | 1.84 | 1.53 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1175 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.1 LR=8.6 LRA=9.1





