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# Customer information packet

## SPM31116

1HP, 1760RPM, 3PH, 60HZ, 56H, 3520M, ODP, F1, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | ODP                                                         |
| 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             | 1.000 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               | CURUSEEV<br>NEMA PREMIUM<br>WEEE                            |
| Ambient Temperature            | 40 °C                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 3.200 A @ 208.0 V<br>3.260 A @ 230.0 V<br>1.630 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 35E6250    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG004   |
| Layout       | 35LYE6250  |
| Eff. date    | 06-07-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 09-08-2023 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 1.6 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | N                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Max Speed                     | 2700 rpm            |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3520M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 11.75 IN            |
| Power Factor                  | 67                  |
| 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                         | 1760 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 #         | SPM31116      |        |    |           |      | WGT           | 37      |    | LBS   |     |      |  |       |
| SPEC          | 35E6250G004   |        |    |           |      | ENCL          | ODP     |    |       |     |      |  |       |
| SER #         |               |        |    |           |      | CC            | 010A    |    | IP    | 23  |      |  |       |
| HP            | 1             |        |    | MAG CUR   |      |               | 2.4/1.2 |    |       |     |      |  |       |
| VOLTS         | 230/460       |        |    |           |      | NEMA NOM. EFF |         |    |       |     | 85.5 |  |       |
| AMPS          | 3.26/1.63     |        |    |           |      |               | PF      | 67 |       |     |      |  |       |
| RATING        | 40C AMB-CONT  |        |    |           |      |               |         |    |       |     |      |  |       |
| RPM           | 1760          |        |    |           |      | MAX RPM       |         |    | 2700  |     |      |  |       |
| FRAME         | 56H           |        | HZ | 60        |      | CODE          | N       |    | CLASS | F   |      |  |       |
| SER.F.        | 1.15          | SF AMP |    | 3.52/1.76 |      |               |         | 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           | 0.144  | CT | 6         | TO   | 60            | 10:1    |    |       |     |      |  |       |
| ID LOGO       | SL HZ         | 1.3    | VT | 3         | TO   | 60            | 20:1    |    |       |     |      |  |       |
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## AC Induction Motor Performance Data

Record # 86927

Typical performance - not guaranteed values

| Winding: 35WGG004-R007 |    |           | Type: 3520M                              |                     | Enclosure: OPEN         |            |         |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------|---------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |         |
| Rated Output (HP)      |    | 1         | Full Load Torque                         |                     | 2.97 LB-FT              |            |         |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |            |         |
| Full Load Amps         |    | 3.26/1.63 | Breakdown Torque                         |                     | 13.68 LB-FT             |            |         |
| R.P.M.                 |    | 1760      | Pull-up Torque                           |                     | 7.85 LB-FT              |            |         |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 9.01 LB-FT |         |
| NEMA Design Code       |    | B         | KVA Code                                 | N                   | Starting Current        |            | 14.13 A |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 1.08 A                  |            |         |
| NEMA Nom. Eff.         |    | 85.5      | Power Factor                             | 67                  | Line-line Res. @ 25°C   |            | 16.9 Ω  |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 24°C    |
| S.F. Amps              |    | 3.52/1.76 | Temp. Rise @ S.F. Load                   |                     | 27°C                    |            |         |
|                        |    |           | Locked-rotor Power Factor                |                     | 61.5                    |            |         |
|                        |    |           | Rotor inertia                            |                     | 0.144 lb-ft²            |            |         |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 30   | 47   | 60   | 69   | 76   | 79   | 73   |
| Efficiency      | 72.1 | 81.7 | 84.7 | 85.7 | 85.5 | 84.7 | 85.6 |
| Speed           | 1791 | 1784 | 1776 | 1768 | 1759 | 1750 | 1763 |
| Line amperes    | 1.11 | 1.22 | 1.38 | 1.59 | 1.82 | 2.09 | 1.73 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13





