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# Customer information packet

## SPJMM3314T-G

15HP, 3515RPM, 3PH, 60HZ, 215JM, 3756M, OPSB, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | OPSB                                     |
| Frame                          | 215JM                                    |
| 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             | 15.000 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               | 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              | 17.000 A @ 460.0 V<br>34.000 A @ 230.0 V |
| Design Code                    | A                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 92.4 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 17.0 a                                   |
| Insulation Class               | H                                        |
| Inverter Code                  | Inverter Duty                            |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 37EE004    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGR601   |
| Layout       | 37LYEE004  |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0180     |
| Poles        | 02         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 08-14-2025 |

|                               |                       |
|-------------------------------|-----------------------|
| KVA Code                      | K                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Max Speed                     | 5400 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3756M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 20.82 IN              |
| Power Factor                  | 88                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Tapped & Key          |
| Rodent Screen                 | Included              |
| RoHS Status                   | ROHS NON-COMPLIANT    |
| Service Factor                | 1.25                  |
| Shaft Diameter                | 0.875 IN              |
| Shaft Ground Indicator        | Shaft Grounding       |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 3515 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

| NP4423A01A05L |               |        |           |      |    |               |          |       |     |       |      |  |  |
|---------------|---------------|--------|-----------|------|----|---------------|----------|-------|-----|-------|------|--|--|
| CAT #         | SPJMM3314T-G  |        |           |      |    | WGT           | 187      | LBS   |     |       |      |  |  |
| SPEC          | 37EE004R601   |        |           |      |    | ENCL          | OPSB     |       |     |       |      |  |  |
| SER #         |               |        |           |      |    | CC            | 010A     | IP    | 23  |       |      |  |  |
| HP            | 15            |        |           |      |    | MAG CUR       | 11.6/5.8 |       |     |       |      |  |  |
| VOLTS         | 230/460       |        |           |      |    | NEMA NOM. EFF |          |       |     |       | 92.4 |  |  |
| AMPS          | 34/17         |        |           |      |    |               | PF       | 88    |     |       |      |  |  |
| RATING        | 40C AMB-CONT  |        |           |      |    |               |          |       |     |       |      |  |  |
| RPM           | 3515          |        |           |      |    | MAX RPM       |          | 5400  |     |       |      |  |  |
| FRAME         | 215JM         | HZ     | 60        |      |    | CODE          | K        | CLASS |     | H     |      |  |  |
| SER.F.        | 1.25          | SF AMP | 41.8/20.9 |      |    |               | PH       | 3     | DES | A     |      |  |  |
| DE            | 6309          |        | ODE       | 6206 |    |               |          |       |     |       |      |  |  |
| LUBRICATION   | POLYREX EM    |        |           |      |    |               |          |       |     |       |      |  |  |
| ID LOGO       | INVERTER TYPE |        |           | VPWM |    | CHP           | 60       | TO    | 90  | 1.5:1 |      |  |  |
| ID LOGO       | WK2           | 0.51   | CT        | 6    | TO | 60            | 10:1     |       |     |       |      |  |  |
| ID LOGO       | SL HZ         | 1.4    | VT        | 3    | TO | 60            | 20:1     |       |     |       |      |  |  |
|               |               |        |           |      |    |               |          |       |     |       |      |  |  |
|               |               |        |           |      |    |               |          |       |     |       |      |  |  |
|               |               |        |           |      |    |               |          |       |     |       |      |  |  |
|               |               |        |           |      |    |               |          |       |     |       |      |  |  |
|               |               |        |           |      |    |               |          |       |     |       |      |  |  |
|               |               |        |           |      |    |               | QR       |       |     |       |      |  |  |
| YR            |               |        |           |      |    |               |          |       |     |       |      |  |  |

## AC Induction Motor Performance Data

Record # 112293

Preliminary Data Sheet

| Winding: 37WGR601-R008 |  |                   | Type: 3756M |                                          | Enclosure: ODP |                |
|------------------------|--|-------------------|-------------|------------------------------------------|----------------|----------------|
| Nameplate Data         |  |                   |             | 460 V, 60 Hz:<br>High Voltage Connection |                |                |
| Rated Output (HP)      |  | 15                |             | Full Load Torque                         |                | 22.09 LB-FT    |
| Volts                  |  | 230/460           |             | Start Configuration                      |                | direct on line |
| Full Load Amps         |  | 34/17             |             | Breakdown Torque                         |                | 112 LB-FT      |
| R.P.M.                 |  | 3515              |             | Pull-up Torque                           |                | 43.2 LB-FT     |
| Hz                     |  | 60 Phase          |             | Locked-rotor Torque                      |                | 62 LB-FT       |
| NEMA Design Code       |  | A KVA Code        |             | Starting Current                         |                | 161 A          |
| Service Factor (S.F.)  |  | 1.25              |             | No-load Current                          |                | 5.75 A         |
| NEMA Nom. Eff.         |  | 92.4 Power Factor |             | Line-line Res. @ 25°C                    |                | 0.406 Ω        |
| Rating - Duty          |  | 40C AMB-CONT      |             | Temp. Rise @ Rated Load                  |                | 63°C           |
| S.F. Amps              |  | 41.8/20.9         |             | Temp. Rise @ S.F. Load                   |                | 85°C           |
|                        |  |                   |             | Locked-rotor Power Factor                |                | 29.9           |
|                        |  |                   |             | Rotor inertia                            |                | 0.51 lb-ft²    |

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

| % of Rated Load | 25   | 50   | 75   | 100   | 125  | 150   | S.F. |
|-----------------|------|------|------|-------|------|-------|------|
| Power Factor    | 53   | 76   | 85   | 88    | 90   | 90    | 90   |
| Efficiency      | 89.4 | 92.8 | 93.2 | 92.7  | 91.9 | 90.8  | 91.9 |
| Speed           | 3580 | 3561 | 3539 | 3516  | 3491 | 3465  | 3491 |
| Line amperes    | 6.81 | 9.54 | 13.1 | 16.95 | 20.9 | 25.31 | 20.9 |

ABB Motors and Mechanical Inc.

WINDING # 37WGR601

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3515 RPM 460 V 3756M

TORQUES (LB-FT): PO=112 PU=43.2 LR=62 LRA=161





