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# Customer information packet

## SPJMM3219T-G

7.5HP, 3500RPM, 3PH, 60HZ, 184JM, 3646M, OPSB

Class - None

Division - Not Applicable

## Specifications

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | OPSB                                    |
| Frame                          | 184JM                                   |
| 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             | 7.500 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              | 16.800 A @ 230.0 V<br>8.400 A @ 460.0 V |
| Design Code                    | B                                       |
| Drip Cover                     | No Drip Cover                           |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 90.2 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Front Shaft Indicator          | None                                    |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 8.4 a                                   |
| Insulation Class               | H                                       |
| Inverter Code                  | Inverter Duty                           |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 36EE003    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGX419   |
| Layout       | 36LYEE003  |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 08-11-2025 |

|                               |                     |
|-------------------------------|---------------------|
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Max Speed                     | 5400 rpm            |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3646M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 18.00 IN            |
| Power Factor                  | 91                  |
| 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 COMPLIANT      |
| Service Factor                | 1.25                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Ground Indicator        | Shaft Grounding     |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 3500 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 # 112309

Preliminary Data Sheet

| Winding: 36WGX419-R010 |                   | Type: 3646M                              | Enclosure: OPSB          |
|------------------------|-------------------|------------------------------------------|--------------------------|
| Nameplate Data         |                   | 460 V, 60 Hz:<br>High Voltage Connection |                          |
| Rated Output (HP)      | 7.5               | Full Load Torque                         | 11.2 LB-FT               |
| Volts                  | 230/460           | Start Configuration                      | direct on line           |
| Full Load Amps         | 16.8/8.4          | Breakdown Torque                         | 55 LB-FT                 |
| R.P.M.                 | 3500              | Pull-up Torque                           | 40 LB-FT                 |
| Hz                     | 60 Phase          | Locked-rotor Torque                      | 48 LB-FT                 |
| NEMA Design Code       | B KVA Code        | Starting Current                         | 87 A                     |
| Service Factor (S.F.)  | 1.25              | No-load Current                          | 2.2 A                    |
| NEMA Nom. Eff.         | 90.2 Power Factor | Line-line Res. @ 25°C                    | 1.45 Ω                   |
| Rating - Duty          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  | 34°C                     |
| S.F. Amps              | 20.6/10.3         | Temp. Rise @ S.F. Load                   | 48°C                     |
|                        |                   | Locked-rotor Power Factor                | 44.8                     |
|                        |                   | Rotor inertia                            | 0.205 lb-ft <sup>2</sup> |

## Load Characteristics 460 V, 60 Hz, 7.5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 65   | 84   | 90   | 91   | 93   | 93   | 93   |
| Efficiency      | 87.9 | 91.3 | 91.6 | 90.9 | 89.9 | 88.6 | 89.9 |
| Speed           | 3570 | 3542 | 3511 | 3478 | 3446 | 3412 | 3446 |
| Line amperes    | 3.1  | 4.6  | 6.4  | 8.4  | 10.3 | 12.4 | 10.3 |

ABB Motors and Mechanical Inc.

WINDING # 36WGX419

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3500 RPM 460 V 3646M

TORQUES (LB-FT) : PO=55 PU=40 LR=48 LRA=87





