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# Customer information packet

## JSM3107

.5HP, 3450RPM, 3PH, 60HZ, 56YZ, 3413M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | OPEN                                                        |
| Frame                          | 56YZ                                                        |
| 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             | .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               | UR<br>CSA                                                   |
| 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              | 1.200 A @ 460.0 V<br>2.400 A @ 230.0 V<br>3.100 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | Drip Cover                                                  |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 70.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Drip Cover Mounting                                         |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | U          |
| Type         | AC         |
| Mech. spec.  | 34L408     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG2718   |
| Layout       | 34LYL408   |
| Eff. date    | 10-28-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 08-05-2009 |

|                               |                             |
|-------------------------------|-----------------------------|
| High Voltage Full Load Amps   | 1.2 a                       |
| Insulation Class              | B                           |
| Inverter Code                 | Not Inverter                |
| KVA Code                      | N                           |
| Lifting Lugs                  | No Lifting Lugs             |
| Locked Bearing Indicator      | Locked Bearing              |
| Motor Lead Exit               | Terminal Panel Or Lead Hole |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG                  |
| Motor Lead Termination        | Flying Leads                |
| Motor Standards               | NEMA                        |
| Motor Type                    | 3413M                       |
| Mounting Arrangement          | F1                          |
| Number of Poles               | 2                           |
| Overall Length                | 11.40 IN                    |
| Power Factor                  | 65                          |
| Product Family                | General Purpose             |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | Pool Pump                   |
| Pulley Shaft Indicator        | Ext Thread & Tapped Hole    |
| Rodent Screen                 | None                        |
| RoHS Status                   | ROHS COMPLIANT              |
| Service Factor                | 1.60                        |
| Shaft Diameter                | 0.625 IN                    |
| Shaft Extension Location      | Pulley End                  |
| 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

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## Nameplate

| NP1256L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | JSM3107      |      |     |      |   |       |    |   |  |
| SPEC.        | 34L408-2718  |      |     |      |   |       |    |   |  |
| HP           | .5           |      |     |      |   |       |    |   |  |
| VOLTS        | 230/460      |      |     |      |   |       |    |   |  |
| AMP          | 2.4/1.2      |      |     |      |   |       |    |   |  |
| RPM          | 3450         |      |     |      |   |       |    |   |  |
| FRAME        | 56YZ         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.60         | CODE | N   | DES  | B | CLASS |    | B |  |
| NEMA-NOM-EFF | 70           | PF   | 65  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6203         |      | ODE | 6203 |   |       |    |   |  |
| ENCL         | OPEN         | SN   |     |      |   |       |    |   |  |
|              | SFA 2.8/1.4  |      |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 6655

Typical performance - not guaranteed values

| Winding: 34WG2718-R001 |    |              | Type: 3413M  |                                          | Enclosure: OPEN |                |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |    | .5           |              | Full Load Torque                         |                 | 0.75 LB-FT     |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line |
| Full Load Amps         |    | 2.4/1.2      |              | Breakdown Torque                         |                 | 5.3 LB-FT      |
| R.P.M.                 |    | 3450         |              | Pull-up Torque                           |                 | 3.38 LB-FT     |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 3.8 LB-FT      |
| NEMA Design Code       |    | B            | KVA Code     | Starting Current                         |                 | 8.75 A         |
| Service Factor (S.F.)  |    | 1.6          |              | No-load Current                          |                 | 0.88 A         |
| NEMA Nom. Eff.         |    | 70           | Power Factor | Line-line Res. @ 25°C                    |                 | 6 Ω            |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 31°C           |
| S.F. Amps              |    | 2.8/1.4      |              | Temp. Rise @ S.F. Load                   |                 | 44°C           |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 33   | 44   | 55   | 65   | 69   | 75   | 76   |
| Efficiency      | 46.9 | 60.4 | 67.2 | 71.3 | 72.1 | 72.7 | 73.2 |
| Speed           | 3574 | 3553 | 3533 | 3507 | 3486 | 3456 | 3447 |
| Line amperes    | 0.88 | 0.92 | 0.96 | 1.05 | 1.15 | 1.3  | 1.36 |

ABB Motors and Mechanical Inc.

WINDING # 34WG2718

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3413M

TORQUES (LB-FT): PO=5.3 PU=3.38 LR=3.8 LRA=8.75







