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# Customer information packet

## EJMM3212T-G

5HP, 3450RPM, 3PH, 60HZ, 182JM, 3622M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | OPSB                                                          |
| Frame                          | 182JM                                                         |
| 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             | 5.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                             |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| Agency Approvals               | CSA<br>CSA EEV<br>UR                                          |
| 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              | 12.800 A @ 208.0 V<br>6.000 A @ 460.0 V<br>12.000 A @ 230.0 V |
| Design Code                    | A                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 86.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Front Face Code                | Standard                                                      |
| Front Shaft Indicator          | None                                                          |

## Part detail

|              |            |
|--------------|------------|
| Revision     | X          |
| Type         | AC         |
| Mech. spec.  | 36T140     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS040   |
| Layout       | 36LYT140   |
| Eff. date    | 11-06-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 11-21-2011 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 6.0 a               |
| Insulation Class              | H                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3622M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 15.12 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            |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | Shaft 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

| NP3553LUA                 |                             |      |     |      |   |       |       |  |  |
|---------------------------|-----------------------------|------|-----|------|---|-------|-------|--|--|
| CAT.NO.                   | EJMM3212T-G                 |      |     |      |   |       |       |  |  |
| SPEC.                     | 36T140S040G1                |      |     |      |   |       |       |  |  |
| HP                        | 5                           |      |     |      |   |       |       |  |  |
| VOLTS                     | 230/460                     |      |     |      |   |       |       |  |  |
| AMPS                      | 12/6                        |      |     |      |   |       |       |  |  |
| RPM                       | 3450                        |      |     |      |   |       |       |  |  |
| FRAME                     | 182JM                       |      | HZ  | 60   |   | PH    | 3     |  |  |
| SF                        | 1.15                        | CODE | K   | DES  | A | CLASS | H     |  |  |
| NEMA NOM. EFF             | 86.5                        | PF   | 91  |      |   |       |       |  |  |
| RATING                    | 40C AMB-CONT                |      |     |      |   |       |       |  |  |
| CC                        | 010A                        |      |     |      |   |       |       |  |  |
| ENCL                      | OPSB                        | SN   |     |      |   |       |       |  |  |
| DE                        | 6207                        |      | ODE | 6205 |   |       |       |  |  |
| VPWM INVERTER READY       |                             |      |     |      |   |       |       |  |  |
| CT30-60(2:1) VT3-60(20:1) |                             |      |     |      |   |       |       |  |  |
| USABLE AT                 | 50Hz 5HP 190/380V 14.6/7.3A |      |     |      |   |       | SF1.0 |  |  |

**AC Induction Motor Performance Data**

Record # 53355

Typical performance - not guaranteed values

| Winding: 36WGS040-R015 |    |         | Type: 3622M                              |                     | Enclosure: OPSB         |                       |         |        |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|-----------------------|---------|--------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |         |        |
| Rated Output (HP)      |    | 5       | Full Load Torque                         |                     | 7.66 LB-FT              |                       |         |        |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |                       |         |        |
| Full Load Amps         |    | 12/6    | Breakdown Torque                         |                     | 29.99 LB-FT             |                       |         |        |
| R.P.M.                 |    | 3450    | Pull-up Torque                           |                     | 17.89 LB-FT             |                       |         |        |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 22.24 LB-FT           |         |        |
| NEMA Design Code       |    | A       | KVA Code                                 | K                   | Starting Current        |                       | 49.63 A |        |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.99 A                  |                       |         |        |
| NEMA Nom. Eff.         |    | 86.5    | Power Factor                             |                     | 91                      | Line-line Res. @ 25°C |         | 3.07 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 34°C    |        |
| S.F. Amps              |    |         | Temp. Rise @ S.F. Load                   |                     | 42°C                    |                       |         |        |
|                        |    |         | Locked-rotor Power Factor                |                     | 49.2                    |                       |         |        |
|                        |    |         | Rotor inertia                            |                     | 0.0988 LB-FT2           |                       |         |        |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 61   | 79   | 87   | 90   | 92   | 93   | 92   |
| Efficiency      | 81.4 | 86.5 | 87.6 | 86.6 | 85.3 | 83.5 | 86.1 |
| Speed           | 3566 | 3535 | 3503 | 3465 | 3423 | 3379 | 3445 |
| Line amperes    | 2.5  | 3.49 | 4.68 | 6.06 | 7.56 | 9.15 | 6.91 |

ABB Motors and Mechanical Inc.

WINDING # 36WGS040

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

TORQUES (LB-FT) : PO=29.99 PU=17.89 LR=22.24 LRA=49.63







