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# Customer information packet

## EM3215T-G

2HP, 1165RPM, 3PH, 60HZ, 184T, 3636M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | OPSB                                                        |
| Frame                          | 184T                                                        |
| 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             | 2.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1200 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                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 6.800 A @ 208.0 V<br>6.800 A @ 230.0 V<br>3.400 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 87.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | Q          |
| Type         | AC         |
| Mech. spec.  | 36M526     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS947   |
| Layout       | 36LYM526   |
| Eff. date    | 05-01-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 07-03-2012 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 3.4 a               |
| Insulation Class              | H                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | L                   |
| 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                    | 3636M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 6                   |
| Overall Length                | 16.50 IN            |
| Power Factor                  | 63                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 1.125 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | Shaft Grounding     |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1165 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

| NP1259L      |              |      |     |      |   |    |    |   |  |  |  |
|--------------|--------------|------|-----|------|---|----|----|---|--|--|--|
| CAT.NO.      | EM3215T-G    |      |     |      |   |    |    |   |  |  |  |
| SPEC.        | 36M526S947G1 |      |     |      |   |    |    |   |  |  |  |
| HP           | 2            |      |     |      |   |    |    |   |  |  |  |
| VOLTS        | 230/460      |      |     |      |   |    |    |   |  |  |  |
| AMP          | 6.8/3.4      |      |     |      |   |    |    |   |  |  |  |
| RPM          | 1165         |      |     |      |   |    |    |   |  |  |  |
| FRAME        | 184T         |      | HZ  | 60   |   |    | PH | 3 |  |  |  |
| SER.F.       | 1.15         | CODE | L   | DES  | B | CL | H  |   |  |  |  |
| NEMA-NOM-EFF | 87.5         | PF   | 63  |      |   |    |    |   |  |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |    |   |  |  |  |
| CC           | 010A         |      |     |      |   |    |    |   |  |  |  |
| DE           | 6206         |      | ODE | 6205 |   |    |    |   |  |  |  |
| ENCL         | OPSB         | SN   |     |      |   |    |    |   |  |  |  |
|              |              |      |     |      |   |    |    |   |  |  |  |

**AC Induction Motor Performance Data**

Record # 39004

Typical performance - not guaranteed values

| Winding: 36WGS947-R002 |          |         | Type: 3636M                              |  | Enclosure: OPSB         |                       |          |
|------------------------|----------|---------|------------------------------------------|--|-------------------------|-----------------------|----------|
| Nameplate Data         |          |         | 460 V, 60 Hz:<br>High Voltage Connection |  |                         |                       |          |
| Rated Output (HP)      |          | 2       | Full Load Torque                         |  | 9.01 LB-FT              |                       |          |
| Volts                  |          | 230/460 | Start Configuration                      |  | direct on line          |                       |          |
| Full Load Amps         |          | 6.8/3.4 | Breakdown Torque                         |  | 35.3 LB-FT              |                       |          |
| R.P.M.                 |          | 1165    | Pull-up Torque                           |  | 19.7 LB-FT              |                       |          |
| Hz                     | 60 Phase | 3       | Locked-rotor Torque                      |  | 25.1 LB-FT              |                       |          |
| NEMA Design Code       |          | B       | KVA Code                                 |  | L                       | Starting Current      | 23.9 A   |
| Service Factor (S.F.)  |          | 1.15    | No-load Current                          |  | 2.26 A                  |                       |          |
| NEMA Nom. Eff.         |          | 87.5    | Power Factor                             |  | 63                      | Line-line Res. @ 25°C | 4.9075 Ω |
| Rating - Duty          |          | 40C     | AMB-CONT                                 |  | Temp. Rise @ Rated Load |                       | 24°C     |
| S.F. Amps              |          |         |                                          |  | Temp. Rise @ S.F. Load  |                       | 28°C     |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|------|--------|--------|--------|--------|------|
| Power Factor    | 27     | 43   | 55     | 62     | 68     | 72     | 66   |
| Efficiency      | 77.9   | 85.5 | 87.6   | 88     | 87.6   | 86.8   | 87.8 |
| Speed           | 1193.3 | 1187 | 1180.2 | 1173.2 | 1165.2 | 1155.9 | 1168 |
| Line amperes    | 2.37   | 2.62 | 2.99   | 3.43   | 3.96   | 4.54   | 3.75 |

ABB Motors and Mechanical Inc.

WINDING # 36WGS947

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1165 RPM 460 V 3636M

TORQUES (LB-FT): PO=35.3 PU=19.7 LR=25.1 LRA=23.9





