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# Customer information packet

## EFM3211T-G

3HP, 1765RPM, 3PH, 60HZ, 182T, 3630M, OPSB, F2

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | OPSB                                                        |
| Frame                          | 182T                                                        |
| 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             | 3.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | NEMA PREMIUM<br>UR<br>CSA EEV                               |
| 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              | 4.200 A @ 460.0 V<br>8.400 A @ 230.0 V<br>8.500 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 89.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 36Q125     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS658   |
| Layout       | 36LYQ125   |
| Eff. date    | 06-11-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 03-30-2023 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 4.2 a               |
| Insulation Class              | H                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3630M               |
| Mounting Arrangement          | F2                  |
| Number of Poles               | 4                   |
| Overall Length                | 15.00 IN            |
| Power Factor                  | 74                  |
| 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 Ground Indicator        | Shaft Grounding     |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1765 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

| NP3553L                   |              |      |     |      |   |       |   |  |  |
|---------------------------|--------------|------|-----|------|---|-------|---|--|--|
| CAT.NO.                   | EFM3211T-G   |      |     |      |   |       |   |  |  |
| SPEC                      | 36Q125S658G1 |      |     |      |   |       |   |  |  |
| HP                        | 3            |      |     |      |   |       |   |  |  |
| VOLTS                     | 230/460      |      |     |      |   |       |   |  |  |
| AMPS                      | 8.4/4.2      |      |     |      |   |       |   |  |  |
| RPM                       | 1765         |      |     |      |   |       |   |  |  |
| FRAME                     | 182T         |      | HZ  | 60   |   | PH    | 3 |  |  |
| SF                        | 1.15         | CODE | K   | DES  | B | CLASS | H |  |  |
| NEMA NOM. EFF             | 89.5         | PF   | 74  |      |   |       |   |  |  |
| RATING                    | 40C AMB-CONT |      |     |      |   |       |   |  |  |
| CC                        | 010A         |      |     |      |   |       |   |  |  |
| ENCL                      | OPSB         | SER  |     |      |   |       |   |  |  |
| DE                        | 6206         |      | ODE | 6205 |   |       |   |  |  |
| VPWM INVERTER READY       |              |      |     |      |   |       |   |  |  |
| CT30-60(2:1) VT3-60(20:1) |              |      |     |      |   |       |   |  |  |

**AC Induction Motor Performance Data**

Record # 35737

Typical performance - not guaranteed values

| Winding: 36WGS658-R003 |    |              | Type: 3630M                              |                           | Enclosure: OPSB       |              |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|--------------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |              |        |
| Rated Output (HP)      |    | 3            | Full Load Torque                         |                           | 8.87 LB-FT            |              |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line        |              |        |
| Full Load Amps         |    | 8.4/4.2      | Breakdown Torque                         |                           | 37.4 LB-FT            |              |        |
| R.P.M.                 |    | 1765         | Pull-up Torque                           |                           | 17.3 LB-FT            |              |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                       | 21.2 LB-FT   |        |
| NEMA Design Code       |    | B            | KVA Code                                 | K                         | Starting Current      |              | 32.3 A |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                       | 2.43 A       |        |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor                             | 74                        | Line-line Res. @ 25°C |              | 3.78 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 24°C         |        |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load    |                       | 29°C         |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 43           |        |
|                        |    |              |                                          | Rotor inertia             |                       | 0.279 LB-FT2 |        |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 33   | 53   | 66   | 73   | 79   | 81   | 77   |
| Efficiency      | 80.1 | 87.6 | 89.6 | 89.9 | 89.7 | 88.5 | 89.8 |
| Speed           | 1791 | 1783 | 1775 | 1766 | 1756 | 1745 | 1760 |
| Line amperes    | 2.6  | 2.99 | 3.54 | 4.25 | 4.97 | 5.83 | 4.68 |

ABB Motors and Mechanical Inc.

WINDING # 36WGS658

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M

TORQUES (LB-FT): PO=37.4 PU=17.3 LR=21.2 LRA=32.3





