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# Customer information packet

## EM3610T-G

3HP, 3450RPM, 3PH, 60HZ, 182T, 3532M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| 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  | 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              | 7.200 A @ 230.0 V<br>7.900 A @ 208.0 V<br>3.600 A @ 460.0 V |
| Design Code                    | B                                                           |
| 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     | N          |
| Type         | AC         |
| Mech. spec.  | 35E2214    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGQ060   |
| Layout       | 35LYE2214  |
| Eff. date    | 04-29-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 10-03-2013 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 3.6 a               |
| Insulation Class              | H                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | L                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3532M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 15.29 IN            |
| Power Factor                  | 92                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| RoHS Status                   | ROHS COMPLIANT      |
| 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                         | 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 |

## Nameplate

| NP3441LUA                 |                            |      |     |      |   |       |       |  |  |
|---------------------------|----------------------------|------|-----|------|---|-------|-------|--|--|
| CAT.NO.                   | EM3610T-G                  |      |     |      |   |       |       |  |  |
| SPEC                      | 35E2214Q060G1              |      |     |      |   |       |       |  |  |
| HP                        | 3                          |      |     |      |   |       |       |  |  |
| VOLTS                     | 230/460                    |      |     |      |   |       |       |  |  |
| AMPS                      | 7.2/3.6                    |      |     |      |   |       |       |  |  |
| RPM                       | 3450                       |      |     |      |   |       |       |  |  |
| FRAME                     | 182T                       |      | HZ  | 60   |   | PH    | 3     |  |  |
| SF                        | 1.15                       | CODE | L   | DES  | B | CLASS | H     |  |  |
| NEMA NOM. EFF             | 86.5                       | PF   | 92  |      |   |       |       |  |  |
| RATING                    | 40C AMB-CONT               |      |     |      |   |       |       |  |  |
| CC                        | 010A                       |      |     |      |   |       |       |  |  |
| ENCL                      | TEFC                       | SER  |     |      |   |       |       |  |  |
| DE                        | 6206                       |      | ODE | 6205 |   |       |       |  |  |
| VPWM INVERTER READY       |                            |      |     |      |   |       |       |  |  |
| CT6-60H(10:1)VT3-60H(20:1 | 50Hz 3HP 190/380V 8.8/4.4A |      |     |      |   |       | SF1.0 |  |  |

**AC Induction Motor Performance Data**

Record # 53134

Typical performance - not guaranteed values

| Winding: 35WGQ060-R024 |  |         |  | Type: 3532M                              |  | Enclosure: TEFC           |  |
|------------------------|--|---------|--|------------------------------------------|--|---------------------------|--|
| Nameplate Data         |  |         |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                           |  |
| Rated Output (HP)      |  | 3       |  | Full Load Torque                         |  | 4.5 LB-FT                 |  |
| Volts                  |  | 230/460 |  | Start Configuration                      |  | direct on line            |  |
| Full Load Amps         |  | 7.2/3.6 |  | Breakdown Torque                         |  | 18 LB-FT                  |  |
| R.P.M.                 |  | 3450    |  | Pull-up Torque                           |  | 11 LB-FT                  |  |
| Hz                     |  | 60      |  | Phase                                    |  | 3                         |  |
| NEMA Design Code       |  | B       |  | KVA Code                                 |  | L                         |  |
| Service Factor (S.F.)  |  | 1.15    |  | No-load Current                          |  | 33 A                      |  |
| NEMA Nom. Eff.         |  | 86.5    |  | Power Factor                             |  | 92                        |  |
| Rating - Duty          |  | 40C     |  | AMB-CONT                                 |  | Temp. Rise @ Rated Load   |  |
| S.F. Amps              |  |         |  |                                          |  | Temp. Rise @ S.F. Load    |  |
|                        |  |         |  |                                          |  | Locked-rotor Power Factor |  |
|                        |  |         |  |                                          |  | Rotor inertia             |  |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 57   | 77   | 85   | 88   | 89   | 90   | 89   |
| Efficiency      | 84.1 | 87.9 | 88.4 | 87.2 | 85.7 | 83.5 | 86.3 |
| Speed           | 3562 | 3531 | 3498 | 3462 | 3421 | 3375 | 3437 |
| Line amperes    | 1.5  | 2.1  | 2.8  | 3.6  | 4.5  | 5.4  | 4.14 |

ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=18 PU=11 LR=16 LRA=33





