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# Customer information packet

## EMM3711

7.5KW, 3490RPM, 3PH, 60HZ, D132S, 3728M, TEFC

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | D132S                                                          |
| 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             | 7.500 KW @ 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                                                          |
| Auxillary Box                  | No Auxillary Box                                               |
| Auxillary Box Lead Termination | None                                                           |
| Base Indicator                 | Rigid                                                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                        |
| Blower                         | None                                                           |
| Current @ Voltage              | 11.800 A @ 460.0 V<br>23.600 A @ 230.0 V<br>24.900 A @ 208.0 V |
| Design Code                    | B                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 90.2 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Frame Prefix                   | D                                                              |
| Front Face Code                | Standard                                                       |
| Front Shaft Indicator          | Tapped & Key                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | K          |
| Type         | AC         |
| Mech. spec.  | 37G816     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGS864   |
| Layout       | 37LYG816   |
| Eff. date    | 06-20-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 03-16-2012 |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 11.8 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | G                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | IEC                   |
| Motor Type                    | 3728M                 |
| Mounting Arrangement          | B3                    |
| Number of Poles               | 2                     |
| Overall Length                | 17.66 IN              |
| Power Factor                  | 87                    |
| 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                | 1.497 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 3490 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

| NP1159L      |              |      |      |     |      |      |      |  |  |
|--------------|--------------|------|------|-----|------|------|------|--|--|
| CAT.NO.      | EMM3711      |      |      |     |      |      |      |  |  |
| SPEC.        | 37G816S864G1 |      |      |     |      |      |      |  |  |
| IEC FRAME    | D132S        |      | KW   | 7.5 |      |      |      |  |  |
| VOLTS        | 230/460      |      |      |     |      |      |      |  |  |
| AMP          | 23.2/11.6    |      |      |     |      |      |      |  |  |
| RPM          | 3490         |      |      |     | ENCL |      | TEFC |  |  |
| HZ           | 60           |      | PH   | 3   |      | CL   | F    |  |  |
| SER.F.       | 1.15         |      | DES  | B   |      | CODE | G    |  |  |
| NEMA-NOM-EFF | 90.2         | I.P. | 54   |     |      |      |      |  |  |
| RATING       | 40C AMB-CONT |      |      |     |      |      |      |  |  |
| CC           | 010A         |      |      |     |      |      |      |  |  |
| DE           | 6208         | ODE  | 6206 |     |      |      |      |  |  |
| SER. #       |              |      |      |     |      |      |      |  |  |
|              |              |      |      |     |      |      |      |  |  |

## AC Induction Motor Performance Data

Record # 57407

Typical performance - not guaranteed values

| Winding: 37WGS864-R034 |    |           | Type: 3730M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|-----------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (KW)      |    | 7.5       | Full Load Torque                         |                     | 15.03 LB-FT               |            |              |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 23.2/11.6 | Breakdown Torque                         |                     | 46.1 LB-FT                |            |              |
| R.P.M.                 |    | 3490      | Pull-up Torque                           |                     | 19.3 LB-FT                |            |              |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                           | 23.7 LB-FT |              |
| NEMA Design Code       |    | B         | KVA Code                                 | G                   | Starting Current          |            | 77.3 A       |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 3.66 A                    |            |              |
| NEMA Nom. Eff.         |    | 90.2      | Power Factor                             | 88                  | Line-line Res. @ 25°C     |            | 1.05 Ω       |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 79°C         |
| S.F. Amps              |    |           |                                          |                     | Temp. Rise @ S.F. Load    |            | 98°C         |
|                        |    |           |                                          |                     | Locked-rotor Power Factor |            | 33.7         |
|                        |    |           |                                          |                     | Rotor inertia             |            | 0.273 LB-FT2 |

## Load Characteristics 460 V, 60 Hz, 7.5 KW

| % of Rated Load | 25   | 50   | 75   | 100   | 125   | 150  | S.F. |
|-----------------|------|------|------|-------|-------|------|------|
| Power Factor    | 57   | 78   | 85   | 88    | 90    | 89   | 88   |
| Efficiency      | 88.7 | 91.7 | 91.6 | 90.6  | 89.1  | 87.3 | 89.9 |
| Speed           | 3573 | 3548 | 3520 | 3489  | 3454  | 3416 | 3463 |
| Line amperes    | 4.57 | 6.51 | 8.94 | 11.66 | 14.68 | 18   | 13.6 |

ABB Motors and Mechanical Inc.

WINDING # 37WGS864

Typical performance - not guaranteed values.

7.5 KW 3 PH 60 HZ 3490 RPM 460 V 3730M

TORQUES (LB-FT): PO=46.1 PU=19.3 LR=23.7 LRA=77.3





