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# Customer information packet

## EWDM3711T

10HP, 3490RPM, 3PH, 60HZ, 215T, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | TEFC                                     |
| Frame                          | 215T                                     |
| 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             | 10.000 HP @ 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               | CSA<br>CSA EEV<br>NEMA PREMIUM<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              | 11.600 A @ 460.0 V<br>23.200 A @ 230.0 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                              |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 11.6 a                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGS864   |
| Layout       | 37LYE572   |
| Eff. date    | 02-14-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 12-03-2019 |

|                            |                       |
|----------------------------|-----------------------|
| Insulation Class           | F                     |
| Inverter Code              | Inverter Ready        |
| KVA Code                   | G                     |
| Lifting Lugs               | Standard Lifting Lugs |
| Locked Bearing Indicator   | No Locked Bearing     |
| Motor Lead Termination     | Flying Leads          |
| Motor Standards            | NEMA                  |
| Motor Type                 | 3730M                 |
| Mounting Arrangement       | F1                    |
| Number of Poles            | 2                     |
| Overall Length             | 17.89 IN              |
| Power Factor               | 88                    |
| Product Family             | Wash Down             |
| Pulley Face Code           | Standard              |
| Rodent Screen              | None                  |
| Service Factor             | 1.15                  |
| Shaft Diameter             | 1.375 IN              |
| Shaft Ground Indicator     | No Shaft Grounding    |
| Shaft Rotation             | Reversible            |
| 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

| NP1669L      |                        |      |     |      |   |  |       |   |  |  |  |
|--------------|------------------------|------|-----|------|---|--|-------|---|--|--|--|
| CAT.NO.      | EWD3711T               |      |     |      |   |  |       |   |  |  |  |
| SPEC.        | 37-0000-0170           |      |     |      |   |  |       |   |  |  |  |
| HP           | 10                     |      |     |      |   |  |       |   |  |  |  |
| VOLTS        | 230/460                |      |     |      |   |  |       |   |  |  |  |
| AMP          | 23.2/11.6              |      |     |      |   |  |       |   |  |  |  |
| RPM          | 3490                   |      |     |      |   |  |       |   |  |  |  |
| FRAME        | 215T                   |      | HZ  | 60   |   |  | PH    | 3 |  |  |  |
| SER.F.       | 1.15                   | CODE | G   | DES  | B |  | CLASS | F |  |  |  |
| NEMA-NOM-EFF | 90.2                   | PF   | 88  |      |   |  |       |   |  |  |  |
| RATING       | 40C AMB-CONT           |      |     |      |   |  |       |   |  |  |  |
| CC           | 010A                   |      |     |      |   |  |       |   |  |  |  |
| DE           | 6307                   |      | ODE | 6206 |   |  |       |   |  |  |  |
| ENCL         | TEFC                   | SN   |     |      |   |  |       |   |  |  |  |
| BLANK        | 20:1CT, 20:1VT, 1.00SF |      |     |      |   |  |       |   |  |  |  |

**AC Induction Motor Performance Data**

Record # 68500

Typical performance - not guaranteed values

| Winding: 37WGS864-R028 |    |           | Type: 3728M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|-----------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |    | 10        | Full Load Torque                         |                     | 15 LB-FT                  |            |              |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 23.6/11.8 | Breakdown Torque                         |                     | 45.7 LB-FT                |            |              |
| R.P.M.                 |    | 3490      | Pull-up Torque                           |                     | 21.9 LB-FT                |            |              |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                           | 25.4 LB-FT |              |
| NEMA Design Code       |    | B         | KVA Code                                 | G                   | Starting Current          |            | 76.1 A       |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 4.12 A                    |            |              |
| NEMA Nom. Eff.         |    | 90.2      | Power Factor                             | 87                  | Line-line Res. @ 25°C     |            | 0.991 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 |            | 33.1         |
|                        |    |           |                                          |                     | Rotor inertia             |            | 0.255 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 53   | 74   | 84   | 87   | 89   | 89   | 88   |
| Efficiency      | 86.7 | 90.9 | 91.3 | 90.5 | 89.1 | 87.2 | 89.7 |
| Speed           | 3575 | 3547 | 3516 | 3482 | 3445 | 3401 | 3460 |
| Line amperes    | 4.94 | 6.85 | 9.1  | 11.8 | 14.7 | 18   | 13.5 |

ABB Motors and Mechanical Inc.

WINDING # 37WGS864

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3728M

TORQUES (LB-FT): PO=45.7 PU=21.9 LR=25.4 LRA=76.1





