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# Customer information packet

## EJMM4104T

30HP, 1770RPM, 3PH, 60HZ, 286JM, 1056M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 286JM                                                          |
| Frame Material                 | Iron                                                           |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 30.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                              |
| Synchronous Speed @ Frequency  | 1800 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              | 72.000 A @ 230.0 V<br>76.000 A @ 208.0 V<br>36.000 A @ 460.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 93.6 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Face Code                | Standard                                                       |
| Front Shaft Indicator          | None                                                           |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AB         |
| Type         | AC         |
| Mech. spec.  | 10E380     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 10WGY758   |
| Layout       | 10LYE380   |
| Eff. date    | 09-10-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#10       |
| Proprietary  | False      |
| Created date | 04-29-2010 |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 36.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | G                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 10 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 1056M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 28.64 IN              |
| Power Factor                  | 83                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Pump Coupling Shaft   |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.250 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1770 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | NONE (OLD)            |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |

|                   |      |
|-------------------|------|
| Winding Thermal 2 | None |
|-------------------|------|

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## Nameplate

| NP3443LUA |                           |                         |                |                           |       |         |        |        |            |      |      |
|-----------|---------------------------|-------------------------|----------------|---------------------------|-------|---------|--------|--------|------------|------|------|
| CAT.NO.   | EJMM4104T                 |                         |                | CUST. P/N                 |       |         |        |        |            | ENCL | TEFC |
| SPEC.     | 10E380Y758G1              | CC                      | 010A           | FRAME                     | 286JM | SER.NO. |        |        |            |      |      |
| HP        | 30                        |                         | CLASS          | F                         | HZ    | 60      |        |        |            |      |      |
| R.P.M.    | 1770                      |                         | PH.            | 3                         | DES.  | A       |        |        |            |      |      |
| VOLTS     | 230/460                   |                         |                | CODE                      | G     | ODE BRG | 6309   | DE BRG | 6312       |      |      |
| AMPS      | 72/36                     |                         |                |                           |       |         |        |        |            |      |      |
| RATING    | 40C AMB-CONT              |                         | NEMA NOM. EFF. |                           |       | 93.6    | GREASE |        | POLYREX EM |      |      |
| P.F.      | 83                        | SER.F.                  | 1.15           | CT6-60H(10:1)VT3-60H(20:1 |       |         |        |        |            |      |      |
| USABLE AT | 50HZ 30HP 190/380V 88/44A |                         |                | SF1.0                     |       |         |        |        |            |      |      |
| VOLTS     | AMPS                      | MAX. SPACE HEATER TEMP. |                |                           |       |         |        |        |            |      |      |

**AC Induction Motor Performance Data**

Record # 30986

Typical performance - not guaranteed values

| Winding: 10WGY758-R001 |    |         | Type: 1056M                              |                     | Enclosure: TEFC           |           |             |
|------------------------|----|---------|------------------------------------------|---------------------|---------------------------|-----------|-------------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |           |             |
| Rated Output (HP)      |    | 30      | Full Load Torque                         |                     | 89.1 LB-FT                |           |             |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line            |           |             |
| Full Load Amps         |    | 72/36   | Breakdown Torque                         |                     | 270 LB-FT                 |           |             |
| R.P.M.                 |    | 1770    | Pull-up Torque                           |                     | 128 LB-FT                 |           |             |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                           | 145 LB-FT |             |
| NEMA Design Code       |    | B       | KVA Code                                 | G                   | Starting Current          |           | 235 A       |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 15.9 A                    |           |             |
| NEMA Nom. Eff.         |    | 93.6    | Power Factor                             | 83                  | Line-line Res. @ 25°C     |           | 0.226 Ω     |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |           | 57°C        |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load    |           | 70°C        |
|                        |    |         |                                          |                     | Locked-rotor Power Factor |           | 32          |
|                        |    |         |                                          |                     | Rotor inertia             |           | 4.45 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 30 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 44   | 66   | 75   | 83   | 83   | 83   | 83   |
| Efficiency      | 90.6 | 93.7 | 94.3 | 94   | 93.2 | 93   | 93.6 |
| Speed           | 1794 | 1787 | 1781 | 1774 | 1766 | 1757 | 1769 |
| Line amperes    | 17.9 | 23   | 30.1 | 36.2 | 45.3 | 54.5 | 41.7 |

ABB Motors and Mechanical Inc.

WINDING # 10WGY758

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

TORQUES (LB-FT): PO=270 PU=128 LR=145 LRA=235





