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# Customer information packet

## EGDM3774T

10HP, 1760RPM, 3PH, 60HZ, 215TZ, 0748M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 215TZ                                                          |
| 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             | 10.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                              |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ          |
| Agency Approvals               | CSA EEV<br>CSA<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              | 12.500 A @ 460.0 V<br>25.000 A @ 230.0 V<br>26.300 A @ 208.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 92.4 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Face Code                | Standard                                                       |

## Part detail

|              |                 |
|--------------|-----------------|
| Revision     | E               |
| Type         | AC              |
| Mech. spec.  | 07N230          |
| Base         |                 |
| Status       | PRD/A           |
| Elec. spec.  | 07WGX776        |
| Layout       | 07LYN230        |
| Eff. date    | 11-27-2024      |
| CD Diagram   | CD0005          |
| Poles        | 04              |
| Leads        | 9#14 72" LONG Y |
| Proprietary  | False           |
| Created date | 01-08-2016      |

|                               |                       |
|-------------------------------|-----------------------|
| Front Shaft Indicator         | None                  |
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 12.5 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| 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               | NEMA                  |
| Motor Type                    | 0748M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 19.45 IN              |
| Power Factor                  | 82                    |
| 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                | 1.375 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1760 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

| NP3126L      |              |      |     |      |   |    |   |    |   |  |  |
|--------------|--------------|------|-----|------|---|----|---|----|---|--|--|
| CAT.NO.      | EGDM3774T    |      |     |      |   |    |   |    |   |  |  |
| SPEC.        | 07N230X776G1 |      |     |      |   |    |   |    |   |  |  |
| HP           | 10           |      |     |      |   |    |   |    |   |  |  |
| VOLTS        | 208-230/460  |      |     |      |   |    |   |    |   |  |  |
| AMP          | 26.3-25/12.5 |      |     |      |   |    |   |    |   |  |  |
| RPM          | 1760         |      |     |      |   |    |   |    |   |  |  |
| FRAME        | 215TZ        |      | HZ  | 60   |   |    |   | PH | 3 |  |  |
| SER.F.       | 1.15         | CODE | H   | DES  | A | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 92.4         | PF   | 82  |      |   |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |   |    |   |  |  |
| CC           | 010A         |      |     |      |   |    |   |    |   |  |  |
| DE           | 6307         |      | ODE | 6206 |   |    |   |    |   |  |  |
| ENCL         | TEFC         | SN   |     |      |   |    |   |    |   |  |  |
|              |              |      |     |      |   |    |   |    |   |  |  |

## AC Induction Motor Performance Data

Record # 27907

Typical performance - not guaranteed values

| Winding: 07WGX776-R006 |    |              | Type: 0748M                              |                     | Enclosure: TEFC           |            |             |
|------------------------|----|--------------|------------------------------------------|---------------------|---------------------------|------------|-------------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |             |
| Rated Output (HP)      |    | 10           | Full Load Torque                         |                     | 29.8 LB-FT                |            |             |
| Volts                  |    | 208-230/460  | Start Configuration                      |                     | direct on line            |            |             |
| Full Load Amps         |    | 26.3-25/12.5 | Breakdown Torque                         |                     | 87 LB-FT                  |            |             |
| R.P.M.                 |    | 1760         | Pull-up Torque                           |                     | 51.9 LB-FT                |            |             |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque |                           | 57.5 LB-FT |             |
| NEMA Design Code       |    | A            | KVA Code                                 | H                   | Starting Current          |            | 88.5 A      |
| Service Factor (S.F.)  |    | 1.15         | No-load Current                          |                     | 5.12 A                    |            |             |
| NEMA Nom. Eff.         |    | 92.4         | Power Factor                             | 82                  | Line-line Res. @ 25°C     |            | 0.973 Ω     |
| Rating - Duty          |    | 40C          | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 60°C        |
| S.F. Amps              |    |              |                                          |                     | Temp. Rise @ S.F. Load    |            | 76°C        |
|                        |    |              |                                          |                     | Locked-rotor Power Factor |            | 35          |
|                        |    |              |                                          |                     | Rotor inertia             |            | 1.18 LB-FT2 |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 44   | 67   | 78   | 82   | 84   | 85   | 83   |
| Efficiency      | 90   | 92.9 | 93.1 | 92.5 | 91.4 | 90.1 | 91.8 |
| Speed           | 1790 | 1781 | 1771 | 1762 | 1750 | 1739 | 1755 |
| Line amperes    | 5.84 | 7.52 | 9.75 | 12.3 | 15.2 | 18.3 | 14   |

ABB Motors and Mechanical Inc.

WINDING # 07WGX776

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

TORQUES (LB-FT): PO=87 PU=51.9 LR=57.5 LRA=88.5





