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# Customer information packet

## EBM3218T-DI

5HP, 1750RPM, 3PH, 60HZ, 184T, 3640M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | OPEN                                                          |
| Frame                          | 184T                                                          |
| 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             | 5.000 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              | 13.600 A @ 208.0 V<br>6.400 A @ 460.0 V<br>12.800 A @ 230.0 V |
| Design Code                    | B                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 89.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Front Face Code                | Brake Mounting                                                |
| Front Shaft Indicator          | None                                                          |

## Part detail

|              |            |
|--------------|------------|
| Revision     | J          |
| Type         | AC         |
| Mech. spec.  | 36Q901     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGY404   |
| Layout       | 36LYQ901   |
| Eff. date    | 05-01-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 09-28-2016 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 6.4 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3640M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 21.84 IN            |
| Power Factor                  | 81                  |
| 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        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1750 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

| NP1259L      |              |      |     |      |   |    |   |  |  |  |  |
|--------------|--------------|------|-----|------|---|----|---|--|--|--|--|
| CAT.NO.      | EBM3218T-DI  |      |     |      |   |    |   |  |  |  |  |
| SPEC.        | 36Q901Y404G1 |      |     |      |   |    |   |  |  |  |  |
| HP           | 5            |      |     |      |   |    |   |  |  |  |  |
| VOLTS        | 230/460      |      |     |      |   |    |   |  |  |  |  |
| AMP          | 12.8/6.4     |      |     |      |   |    |   |  |  |  |  |
| RPM          | 1750         |      |     |      |   |    |   |  |  |  |  |
| FRAME        | 184T         |      | HZ  | 60   |   | PH | 3 |  |  |  |  |
| SER.F.       | 1.15         | CODE | J   | DES  | B | CL | F |  |  |  |  |
| NEMA-NOM-EFF | 89.5         | PF   | 81  |      |   |    |   |  |  |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |   |  |  |  |  |
| CC           | 010A         |      |     |      |   |    |   |  |  |  |  |
| DE           | 6206         |      | ODE | 6205 |   |    |   |  |  |  |  |
| ENCL         | OPEN         | SN   |     |      |   |    |   |  |  |  |  |
|              |              |      |     |      |   |    |   |  |  |  |  |

## AC Induction Motor Performance Data

Record # 53376

Typical performance - not guaranteed values

| Winding: 36WGY404-R037 |    |          | Type: 3640M                              | Enclosure: OPSB     |                  |                           |      |              |
|------------------------|----|----------|------------------------------------------|---------------------|------------------|---------------------------|------|--------------|
| Nameplate Data         |    |          | 460 V, 60 Hz:<br>High Voltage Connection |                     |                  |                           |      |              |
| Rated Output (HP)      |    | 5        | Full Load Torque                         |                     | 15 LB-FT         |                           |      |              |
| Volts                  |    | 230/460  | Start Configuration                      |                     | direct on line   |                           |      |              |
| Full Load Amps         |    | 12.8/6.4 | Breakdown Torque                         |                     | 52 LB-FT         |                           |      |              |
| R.P.M.                 |    | 1750     | Pull-up Torque                           |                     | 30 LB-FT         |                           |      |              |
| Hz                     | 60 | Phase    | 3                                        | Locked-rotor Torque |                  | 32 LB-FT                  |      |              |
| NEMA Design Code       |    | B        | KVA Code                                 | J                   | Starting Current |                           | 48 A |              |
| Service Factor (S.F.)  |    | 1.15     |                                          | No-load Current     |                  | 3.2 A                     |      |              |
| NEMA Nom. Eff.         |    | 89.5     | Power Factor                             |                     | 81               | Line-line Res. @ 25°C     |      | 2.5 Ω        |
| Rating - Duty          |    | 40C      |                                          | AMB-CONT            |                  | Temp. Rise @ Rated Load   |      | 38°C         |
| S.F. Amps              |    |          |                                          |                     |                  | Temp. Rise @ S.F. Load    |      | 46°C         |
|                        |    |          |                                          |                     |                  | Locked-rotor Power Factor |      | 52           |
|                        |    |          |                                          |                     |                  | Rotor inertia             |      | 0.372 LB-FT2 |

## Load Characteristics 460 V, 60 Hz, 5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 38   | 61   | 73   | 81   | 84   | 86   | 83   |
| Efficiency      | 85   | 89.8 | 90.5 | 90   | 88.8 | 87.3 | 89.3 |
| Speed           | 1786 | 1773 | 1761 | 1747 | 1732 | 1715 | 1738 |
| Line amperes    | 3.5  | 4.2  | 5.2  | 6.4  | 7.8  | 9.3  | 7.2  |

ABB Motors and Mechanical Inc.

WINDING # 36WGY404

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

TORQUES (LB-FT) : PO=52 PU=30 LR=32 LRA=48





