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# Customer information packet

## EM3665T

42M 4P TEFC HOR 184T SUPER E

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | TEFC                                                          |
| Frame                          | 184T                                                          |
| 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             | 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               | NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CSA EEV                 |
| 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              | 14.000 A @ 208.0 V<br>6.600 A @ 460.0 V<br>13.200 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 Shaft Indicator          | None                                                          |

## Part detail

|              |            |
|--------------|------------|
| Revision     | K          |
| Type         | AC         |
| Mech. spec.  | 06C101     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGX182   |
| Layout       | 06LYC101   |
| Eff. date    | 08-05-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 12-14-2018 |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 6.6 a                 |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| IP Rating                     | NONE                  |
| KVA Code                      | J                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0642M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 15.24 IN              |
| Power Factor                  | 80                    |
| 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 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 |
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## Nameplate

## NP3441LUA

|                           |                             |  |              |      |     |   |       |   |  |  |
|---------------------------|-----------------------------|--|--------------|------|-----|---|-------|---|--|--|
| CAT.NO.                   | EM3665T                     |  |              |      |     |   |       |   |  |  |
| SPEC                      | 06C101X182G9                |  |              |      |     |   |       |   |  |  |
| HP                        | 5                           |  |              |      |     |   |       |   |  |  |
| VOLTS                     | 230/460                     |  |              |      |     |   |       |   |  |  |
| AMPS                      | 13.2/6.6                    |  |              |      |     |   |       |   |  |  |
| RPM                       | 1750                        |  |              |      |     |   |       |   |  |  |
| FRAME                     | 184T                        |  | HZ           | 60   |     |   | PH    | 3 |  |  |
| SF                        | 1.15                        |  | CODE         | J    | DES | B | CLASS | F |  |  |
| NEMA NOM. EFF             | 89.5                        |  | PF           | 80   |     |   |       |   |  |  |
| RATING                    | 40C AMB-CONT                |  |              |      |     |   |       |   |  |  |
| CC                        | 010A                        |  |              |      |     |   |       |   |  |  |
| ENCL                      | TEFC                        |  | SER          |      |     |   |       |   |  |  |
| DE                        | 6206                        |  | ODE          | 6205 |     |   |       |   |  |  |
| VPWM INVERTER READY       |                             |  | SFA 14.6/7.3 |      |     |   |       |   |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |                             |  |              |      |     |   |       |   |  |  |
|                           | 50HZ 5HP 190/380V 15.8/7.9A |  |              |      |     |   |       |   |  |  |
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## AC Induction Motor Performance Data

Record # 34381

Typical performance - not guaranteed values

| Winding: 06WGX182-R004 |    |         | Type: 0642M  |                                          | Enclosure: TEFC       |                           |              |
|------------------------|----|---------|--------------|------------------------------------------|-----------------------|---------------------------|--------------|
| 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         |    | 13.2/6  |              | Breakdown Torque                         |                       | 53.9 LB-FT                |              |
| R.P.M.                 |    | 1750    |              | Pull-up Torque                           |                       | 22.4 LB-FT                |              |
| Hz                     | 60 | Phase   | 3            | Locked-rotor Torque                      |                       | 31.8 LB-FT                |              |
| NEMA Design Code       |    | B       |              | KVA Code                                 | J                     | Starting Current          | 46.6 A       |
| Service Factor (S.F.)  |    | 1.15    |              | No-load Current                          |                       | 3.02 A                    |              |
| NEMA Nom. Eff.         |    | 89.5    | Power Factor | 80                                       | Line-line Res. @ 25°C |                           | 2.63 Ω       |
| Rating - Duty          |    | 40C     |              | AMB-CONT                                 |                       | Temp. Rise @ Rated Load   | 53°C         |
| S.F. Amps              |    |         |              |                                          |                       | Temp. Rise @ S.F. Load    | 65°C         |
|                        |    |         |              |                                          |                       | Locked-rotor Power Factor | 40.5         |
|                        |    |         |              |                                          |                       | Rotor inertia             | 0.391 LB-FT2 |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 41   | 63   | 75   | 81   | 84   | 85   | 81   |
| Efficiency      | 85.2 | 89.8 | 90.4 | 89.8 | 88.4 | 86.9 | 88.7 |
| Speed           | 1789 | 1777 | 1765 | 1752 | 1737 | 1721 | 1739 |
| Line amperes    | 3.35 | 4.14 | 5.21 | 6.45 | 7.91 | 9.47 | 7.52 |

ABB Motors and Mechanical Inc.

WINDING # 06WGX182

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

TORQUES (LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6





