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# Customer information packet

## CECP3664T

2HP, 1165RPM, 3PH, 60HZ, 184TC, 0642M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Enclosure                      | TEFC                                                     |
| Frame                          | 184TC                                                    |
| Frame Material                 | Iron                                                     |
| Frequency                      | 60.00 Hz                                                 |
| Haz Area Class and Group       | CL I GP A,B,C,D                                          |
| Haz Area Division              | Division II                                              |
| Motor Letter Type              | Three Phase                                              |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                         |
| Phase                          | 3                                                        |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                         |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                       |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CCSA US |
| 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                                                     |
| Constant Torque Speed Range    | 1.8                                                      |
| Current @ Voltage              | 6.400 A @ 230.0 V<br>3.200 A @ 460.0 V                   |
| Design Code                    | B                                                        |
| Drip Cover                     | No Drip Cover                                            |
| Duty Rating                    | CONT                                                     |
| Efficiency @ 100% Load         | 88.5 %                                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                                |
| Enclosure Modification         | Severe Duty Features                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  | 06H482     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGW970   |
| Layout       | 06LYH482   |
| Eff. date    | 05-21-2025 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 11-18-2013 |

|                               |                             |
|-------------------------------|-----------------------------|
| Feedback Device               | NO FEEDBACK                 |
| Front Face Code               | Standard                    |
| Front Shaft Indicator         | None                        |
| Haz Area Temp Code            | T3C                         |
| Heater Indicator              | No Heater                   |
| High Voltage Full Load Amps   | 3.2 a                       |
| Insulation Class              | F                           |
| Inverter Code                 | Inverter Duty               |
| KVA Code                      | K                           |
| Lifting Lugs                  | Standard Lifting Lugs       |
| Locked Bearing Indicator      | Locked Bearing              |
| Max Speed                     | 1800 rpm                    |
| Motor Lead Exit               | Ko Box                      |
| 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               | 6                           |
| Overall Length                | 16.68 IN                    |
| Power Factor                  | 68                          |
| Product Family                | Super-E Chemical Processing |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | C-Face                      |
| Pulley Shaft Indicator        | Standard                    |
| Rodent Screen                 | None                        |
| 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       | Shaft Slinger               |
| Speed                         | 1165 rpm                    |
| Speed Code                    | Single Speed                |

|                                   |                     |
|-----------------------------------|---------------------|
| <b>Starting Method</b>            | Direct on line      |
| <b>Thermal Device - Bearing</b>   | None                |
| <b>Thermal Device - Winding</b>   | None                |
| <b>Vibration Sensor Indicator</b> | No Vibration Sensor |
| <b>Winding Thermal 1</b>          | None                |
| <b>Winding Thermal 2</b>          | None                |

## Nameplate

| NP3257       |              |      |      |      |   |    |   |  |  |
|--------------|--------------|------|------|------|---|----|---|--|--|
| CAT.NO.      | CECP3664T    |      |      |      |   |    |   |  |  |
| SPEC.        | 06H482W970G1 |      |      |      |   |    |   |  |  |
| HP           | 2 TE         |      |      |      |   |    |   |  |  |
| VOLTS        | 208-230/460  |      |      |      |   |    |   |  |  |
| AMP          | 6.6-6.3/3.2  |      |      |      |   |    |   |  |  |
| RPM          | 1165         |      |      |      |   |    |   |  |  |
| FRAME        | 184TC        |      | HZ   | 60   |   | PH | 3 |  |  |
| SER.F.       | 1.15         | CODE | K    | DES  | B | CL | F |  |  |
| RATING       | 40C AMB-CONT |      |      |      |   |    |   |  |  |
| SN           |              |      |      |      |   |    |   |  |  |
| DE           | 6206         |      | ODE  | 6206 |   |    |   |  |  |
| NEMA-NOM-EFF | 88.5         |      | PF   | 68   |   |    |   |  |  |
| G.MIN.EFF    | 86.5         | CC   | 010A |      |   |    |   |  |  |
| T. CODE      | T3C          | T=   | 160  |      |   |    |   |  |  |

| NP3260      |              |                         |     |
|-------------|--------------|-------------------------|-----|
| SPEC.       | 06H482W970G1 |                         |     |
| D.E. BRG.   | 30BC02XP30X  |                         |     |
| O.D.E. BRG. | 30BC02XP30X  |                         |     |
| GREASE      | POLYREX EM   |                         |     |
| RPM MAX     |              | MAX. KVAR               | N/A |
|             |              |                         |     |
| BLANK       |              |                         |     |
| INV.TYPE    | PWM          |                         |     |
| T=          | 160          |                         |     |
| C HP FR     | 60           | C HP TO                 | 90  |
| CT HZ FROM  | 1.8          | CT HZ TO                | 60  |
| VT HZ FROM  | -0           | VT HZ TO                | 60  |
| HTR-VOLTS   |              | HTR-AMPS                |     |
| HTR-WATTS   |              | MAX. SPACE HEATER TEMP. |     |

**AC Induction Motor Performance Data**

Record # 36478

Typical performance - not guaranteed values

| Winding: 06WGW970-R004 |    |             | Type: 0642M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|-------------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |             | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |    | 2           | Full Load Torque                         |                     | 9.01 LB-FT                |            |              |
| Volts                  |    | 208-230/460 | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 6.6-6.3/3.2 | Breakdown Torque                         |                     | 31.2 LB-FT                |            |              |
| R.P.M.                 |    | 1165        | Pull-up Torque                           |                     | 16.7 LB-FT                |            |              |
| Hz                     | 60 | Phase       | 3                                        | Locked-rotor Torque |                           | 19.9 LB-FT |              |
| NEMA Design Code       |    | B           | KVA Code                                 | K                   | Starting Current          |            | 20.9 A       |
| Service Factor (S.F.)  |    | 1.15        | No-load Current                          |                     | 1.84 A                    |            |              |
| NEMA Nom. Eff.         |    | 88.5        | Power Factor                             | 68                  | Line-line Res. @ 25°C     |            | 5.13 Ω       |
| Rating - Duty          |    | 40C         | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 27°C         |
| S.F. Amps              |    |             |                                          |                     | Temp. Rise @ S.F. Load    |            | 32°C         |
|                        |    |             |                                          |                     | Locked-rotor Power Factor |            | 29           |
|                        |    |             |                                          |                     | Rotor inertia             |            | 0.395 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 31   | 48   | 60   | 68   | 73   | 75   | 71   |
| Efficiency      | 79.2 | 86.4 | 88.1 | 88.3 | 87.4 | 86.3 | 87.8 |
| Speed           | 1193 | 1186 | 1178 | 1170 | 1161 | 1150 | 1165 |
| Line amperes    | 1.97 | 2.26 | 2.67 | 3.14 | 3.68 | 4.33 | 3.46 |

ABB Motors and Mechanical Inc.

WINDING # 06WGW970

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M

TORQUES (LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=20.9





