



## Product Information Packet

# ECP3660T

3HP,3500RPM,3PH,60HZ,182T,0628M,TEFC,F1

| Part Detail |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | Z      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 06WGW036   | CD Diagram: | CD0005 | Mfg Plant:    |            |
| Mech. Spec: | 06H483 | Layout:     | 06LYH483   | Poles:      | 02     | Created Date: | 05-13-2010 |
| Base:       | RG     | Eff. Date:  | 04-22-2021 | Leads:      | 9#16   |               |            |

| Specs                           |                  |                                |                              |
|---------------------------------|------------------|--------------------------------|------------------------------|
| Catalog Number:                 | ECP3660T         | Front Shaft Indicator:         | None                         |
| Enclosure:                      | TEFC             | Heater Indicator:              | No Heater                    |
| Frame:                          | 182T             | Insulation Class:              | F                            |
| Frame Material:                 | Iron             | Inverter Code:                 | Inverter Duty                |
| Motor Letter Type:              | Three Phase      | KVA Code:                      | L                            |
| Output @ Frequency:             | 3.000 HP @ 60 HZ | Lifting Lugs:                  | Standard Lifting Lugs        |
| Synchronous Speed @ Frequency:  | 3600 RPM @ 60 HZ | Locked Bearing Indicator:      | No Locked Bearing            |
| Voltage @ Frequency:            | 460.0 V @ 60 HZ  | Motor Lead Quantity/Wire Size: | 9 @ 16 AWG                   |
|                                 | 230.0 V @ 60 HZ  | Motor Lead Exit:               | Ko Box                       |
| XP Class and Group:             | CLI GP A,B,C,D   | Motor Lead Termination:        | Flying Leads                 |
| XP Division:                    | Division II      | Motor Type:                    | 0628M                        |
| Agency Approvals:               | CCSA US          | Mounting Arrangement:          | F1                           |
|                                 | CSA              | Power Factor:                  | 92                           |
|                                 | CSA EEV          | Product Family:                | Chemical Processing (Not DC) |
|                                 | UR               | Pulley End Bearing Type:       | Ball                         |
| Auxillary Box:                  | No Auxillary Box | Pulley Face Code:              | Standard                     |
| Auxillary Box Lead Termination: | None             | Pulley Shaft Indicator:        | Standard                     |
| Base Indicator:                 | Rigid            | Rodent Screen:                 | None                         |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Bearing Grease Type:</b>           | Polyrex EM (-20F +300F)   | <b>Shaft Extension Location:</b>   | Pulley End          |
| <b>Blower:</b>                        | None                      | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
| <b>Constant Torque Speed Range:</b>   | 6                         | <b>Shaft Rotation:</b>             | Reversible          |
| <b>Current @ Voltage:</b>             | 7.500 A @ 208.0 V         | <b>Shaft Slinger Indicator:</b>    | Shaft Slinger       |
|                                       | 6.800 A @ 230.0 V         | <b>Speed Code:</b>                 | Single Speed        |
|                                       | 3.400 A @ 460.0 V         | <b>Motor Standards:</b>            | NEMA                |
| <b>Design Code:</b>                   | B                         | <b>Starting Method:</b>            | Direct on line      |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Thermal Device - Winding:</b>   | None                |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Enclosure Modification:</b>        | Severe Duty Features      | <b>Winding Thermal 1:</b>          | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Winding Thermal 2:</b>          | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>XP Temp Code:</b>               | T3C                 |

Nameplate NP3257E

|              |              |    |  |      |    |      |      |  |   |  |
|--------------|--------------|----|--|------|----|------|------|--|---|--|
| CAT.NO.      | ECP3660T     |    |  |      |    |      |      |  |   |  |
| SPEC.        | 06H483W036G1 |    |  |      |    |      |      |  |   |  |
| HP           | 3            | TE |  |      |    |      |      |  |   |  |
| VOLTS        | 230/460      |    |  |      |    |      |      |  |   |  |
| AMP          | 6.8/3.4      |    |  |      |    |      |      |  |   |  |
| RPM          | 3500         |    |  |      |    |      |      |  |   |  |
| FRAME        | 182T         |    |  |      |    | HZ   | 60   |  |   |  |
| SER.F.       | 1.15         |    |  | CODE | L  | DES  |      |  | B |  |
| RATING       | 40C AMB-CONT |    |  |      |    |      |      |  |   |  |
| SN           |              |    |  |      |    |      |      |  |   |  |
| DE           | 6206         |    |  |      |    | ODE  | 6206 |  |   |  |
| NEMA-NOM-EFF | 88.5         |    |  |      | PF | 92   |      |  |   |  |
| G.MIN.EFF    | 86.5         |    |  |      | CC | 010A |      |  |   |  |
| T. CODE      | T3C          |    |  |      | T= | 160  |      |  |   |  |

|    |   |
|----|---|
| PH | 3 |
| CL | F |

Nameplate NP3260E

|             |              |                         |     |
|-------------|--------------|-------------------------|-----|
| SPEC.       | 06H483W036G1 |                         |     |
| D.E. BRG.   | 30BC02XP30X  |                         |     |
| O.D.E. BRG. | 30BC02XP30X  |                         |     |
| GREASE      | POLYREX EM   |                         |     |
| RPM MAX     | 5400         | MAX. KVAR               | N/A |
| BLANK       |              |                         |     |
| INV.TYPE    | PWM          |                         |     |
| T=          | 160          |                         |     |
| C HP FR     | 60           | C HP TO                 | 90  |
| CT HZ FROM  | 6            | CT HZ TO                | 60  |
| VT HZ FROM  | 3            | VT HZ TO                | 60  |
| HTR-VOLTS   |              | HTR-AMPS                |     |
| HTR-WATTS   |              |                         |     |
|             |              | MAX. SPACE HEATER TEMP. |     |

**AC Induction Motor Performance Data**

Record # 47052

Typical performance - not guaranteed values

| Winding: 06WGW036-R021 |          |                   | Type: 0628M                              | Enclosure: TEFC |                |
|------------------------|----------|-------------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |          |                   | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |          | 3                 | Full Load Torque                         |                 | 4.5 LB-FT      |
| Volts                  |          | 230/460           | Start Configuration                      |                 | direct on line |
| Full Load Amps         |          | 6.8/3.4           | Breakdown Torque                         |                 | 23.3 LB-FT     |
| R.P.M.                 |          | 3500              | Pull-up Torque                           |                 | 15.2 LB-FT     |
| Hz                     | 60 Phase | 3                 | Locked-rotor Torque                      |                 | 16 LB-FT       |
| NEMA Design Code       |          | B KVA Code        | Starting Current                         |                 | 32 A           |
| Service Factor (S.F.)  |          | 1.15              | No-load Current                          |                 | 1.06 A         |
| NEMA Nom. Eff.         |          | 88.5 Power Factor | Line-line Res. @ 25°C                    |                 | 4.1 Ω          |
| Rating - Duty          |          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  |                 | 32°C           |
| S.F. Amps              |          |                   | Temp. Rise @ S.F. Load                   |                 | 39°C           |
|                        |          |                   | Locked-rotor Power Factor                |                 | 44.2           |
|                        |          |                   | Rotor inertia                            |                 | 0.126 LB-FT2   |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 64   | 83   | 90   | 93   | 95   | 99   | 93   |
| Efficiency      | 81.2 | 87.5 | 89.2 | 89.3 | 88.9 | 88.2 | 89.1 |
| Speed           | 3577 | 3556 | 3534 | 3509 | 3487 | 3467 | 3500 |
| Line amperes    | 1.39 | 1.96 | 2.66 | 3.4  | 4.12 | 4.79 | 3.83 |

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values





