



## Product Information Packet

# OF3764T

3HP,1120RPM,3PH,60HZ,213T,0722M,TEFC,F2

| Part Detail |        |             |            |             |        |               |    |
|-------------|--------|-------------|------------|-------------|--------|---------------|----|
| Revision:   | U      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No |
| Type:       | AC     | Elec. Spec: | 07WGX802   | CD Diagram: | CD0321 | Mfg Plant:    |    |
| Mech. Spec: | 07J798 | Layout:     | 07LYJ798   | Poles:      | 06     | Created Date: |    |
| Base:       | RG     | Eff. Date:  | 09-05-2018 | Leads:      | 12#12  | Y             |    |

| Specs                           |                         |                                |                              |
|---------------------------------|-------------------------|--------------------------------|------------------------------|
| Catalog Number:                 | OF3764T                 | Heater Indicator:              | No Heater                    |
| Enclosure:                      | TEFC                    | Insulation Class:              | F                            |
| Frame:                          | 213T                    | Inverter Code:                 | Not Inverter                 |
| Frame Material:                 | Iron                    | KVA Code:                      | J                            |
| Output @ Frequency:             | 3.000 HP @ 60 HZ        | Lifting Lugs:                  | Standard Lifting Lugs        |
| Synchronous Speed @ Frequency:  | 1200 RPM @ 60 HZ        | Locked Bearing Indicator:      | No Locked Bearing            |
| Voltage @ Frequency:            | 230.0 V @ 60 HZ         | Motor Lead Quantity/Wire Size: | 12 @ 12 AWG                  |
|                                 | 460.0 V @ 60 HZ         | Motor Lead Exit:               | Ko Box                       |
|                                 | 796.0 V @ 60 HZ         | Motor Lead Termination:        | Flying Leads                 |
| XP Class and Group:             | None                    | Motor Type:                    | 0722M                        |
| XP Division:                    | Not Applicable          | Mounting Arrangement:          | F2                           |
| Agency Approvals:               | UR                      | Power Factor:                  | 66                           |
|                                 | CSA                     | Product Family:                | Chemical Processing (Not DC) |
| Auxillary Box:                  | No Auxillary Box        | Pulley End Bearing Type:       | Ball                         |
| Auxillary Box Lead Termination: | None                    | Pulley Face Code:              | Standard                     |
| Base Indicator:                 | Rigid                   | Pulley Shaft Indicator:        | Standard                     |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Rodent Screen:                 | None                         |
| Blower:                         | None                    | Shaft Extension Location:      | Pulley End                   |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 10.800 A @ 230.0 V        | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
|                                       | 3.100 A @ 796.0 V         | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 5.400 A @ 460.0 V         | <b>Shaft Slinger Indicator:</b>    | Shaft Slinger       |
| <b>Design Code:</b>                   | D                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Motor Standards:</b>            | NEMA                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Starting Method:</b>            | Direct on line      |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Bearing:</b>   | NONE (OLD)          |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 1:</b>          | None                |
|                                       |                           | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP2960E

|              |              |  |      |    |     |                |      |    |    |   |
|--------------|--------------|--|------|----|-----|----------------|------|----|----|---|
| CAT.NO.      |              |  |      |    |     |                |      |    |    |   |
| SPEC.        | 07J798X802G1 |  |      |    |     |                |      |    |    |   |
| HP           | 3            |  |      |    |     |                |      |    |    |   |
| VOLTS        | 230/460/796  |  |      |    |     |                |      |    |    |   |
| AMP          | 10.8/5.4/3.1 |  |      |    |     |                |      |    |    |   |
| RPM          | 1115         |  |      |    |     |                |      |    |    |   |
| FRAME        | 213T         |  |      |    |     | HZ             | 60   |    | PH | 3 |
| SER.F.       | 1.15         |  | CODE | J  | DES |                | D    | CL | F  |   |
| NEMA-NOM-EFF | 80           |  |      | PF | 66  |                |      |    |    |   |
| RATING       | 40C AMB-CONT |  |      |    |     |                |      |    |    |   |
| CC           |              |  |      |    |     | USABLE AT 208V |      |    |    |   |
| DE           | 6307         |  |      |    |     | ODE            | 6206 |    |    |   |
| ENCL         | TEFC         |  | SN   |    |     |                |      |    |    |   |

|                   |            |
|-------------------|------------|
| Nameplate NP0090E |            |
| FRONT             | 6206       |
| PULLEY            | 6307       |
| LUBRICATE WITH    |            |
| GREASE            | POLYREX EM |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA118951      | SA 07J798X802G1                          | 1.000 EA |
| RA109759      | RA 07J798X802G1                          | 1.000 EA |
| 37FN3002A01SP | EXFN, PLASTIC, 9.00 OD, 1.155 ID         | 1.000 EA |
| HW3201A05     | 3/8-16 EYEBOLT                           | 1.000 EA |
| 09CB1002A05G  | CONDUIT BOX, 1.00 N.P.T. (GRAY)          | 1.000 EA |
| RM1017        | LEAD SEPERATOR GASKET MODEL 307 1/8" THK | 1.000 EA |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01     | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 EA |
| 10XN2520S06   | 1/4 20X3/8 HX HD CAP S.S.                | 1.000 EA |
| WD1000B16     | T&B CX70TN TERMINAL                      | 1.000 EA |
| 37EP1100A64G  | SPL TEFC W/GRSR & RELIEF 3 HOLES .25-20  | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4054        | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 EA |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 EA |
| 37EP1101A32G  | PU ENDPLATE MACH                         | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4054        | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 07FH1001A01G  | SPL FAN HOUSING, 307, W/GREASER, GRAY EP | 1.000 EA |

| Parts List (continued) |                                          |           |
|------------------------|------------------------------------------|-----------|
| Part Number            | Description                              | Quantity  |
| 10XN2520A28            | 1/4-20X 1 3/4 HEX HD                     | 3.000 EA  |
| WD4100A02              | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL  | 1.000 EA  |
| 12CB1503G              | CONDUIT BOX CAST. (GRAY)                 | 1.000 EA  |
| 12GS1002               | GASKET, CONDUIT BOX LID, NEOP            | 1.000 EA  |
| 10XN2520A24            | 1/4-20X 1 1/2 HEX HD X                   | 2.000 EA  |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA  |
| HW4600B36SP            | V-RING SLINGER 1.188 X 1.690 X .24 VITON | 1.000 EA  |
| HW4600B33              | V-RING SLINGER 1.375 X 1.890 X .35 VITON | 1.000 EA  |
| HW2501F21              | KEY, 5/16 SQ X 2.375                     | 1.000 EA  |
| HA7000A02              | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 EA  |
| MJ5001A27              | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 QT  |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 4.000 EA  |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA  |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB  |
| ML4400B12              | UL3644,200C,1000V,SILICONE,12 GA,BLACK   | 12.000 IN |
| LB9031A01              | BRADY B-12 ACETATE CLOTH WIRE MARKER #1  | 1.000 SH  |
| LB9031A02              | BRADY B-12 ACETATE CLOTH WIRE MARKER #2  | 1.000 SH  |
| LB9031A03              | BRADY B-12 ACETATE CLOTH WIRE MARKER #3  | 1.000 SH  |
| LB9031A04              | BRADY B-12 ACETATE CLOTH WIRE MARKER #4  | 1.000 SH  |
| LB9031A05              | BRADY B-12 ACETATE CLOTH WIRE MARKER #5  | 1.000 SH  |
| LB9031A06              | BRADY B-12 ACETATE CLOTH WIRE MARKER #6  | 1.000 SH  |
| LB9031A07              | BRADY B-12 ACETATE CLOTH WIRE MARKER #7  | 1.000 SH  |
| LB9031A08              | BRADY B-12 ACETATE CLOTH WIRE MARKER #8  | 1.000 SH  |
| LB9031A09              | BRADY B-12 ACETATE CLOTH WIRE MARKER #9  | 1.000 SH  |

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|             |                                          |          |
|-------------|------------------------------------------|----------|
| LB9031A10   | BRADY B-12 ACETATE CLOTH WIRE MARKER #10 | 1.000 SH |
| LB9031A11   | BRADY B-12 ACETATE CLOTH WIRE MARKER #11 | 1.000 SH |
| LB9031A12   | BRADY B-12 ACETATE CLOTH WIRE MARKER #12 | 1.000 SH |
| HA3104A32   | THRUBOLT- 5/16-18 X12.750                | 4.000 EA |
| 51XB1214A20 | 12-14X1.25 HXWSSLD SERTYB                | 1.000 EA |
| MG1025Z02   | ACTIVATOR WILKOFAS 060.02HF              | 0.010 GA |
| MG1025G03   | WILKOFAS, 789.901, OIL RIG SILVER        | 0.036 GA |
| LB1002N     | LABEL,MARINE DUTY (ON ROLLS)             | 1.000 EA |
| LB1119N     | WARNING LABEL                            | 1.000 EA |
| LB1304      | LABEL "INVERTER READY"                   | 1.000 EA |
| LC0321      | CONNECTION LABEL                         | 1.000 EA |
| NP2960E     | SS CP CSA CC                             | 1.000 EA |
| NP0090E     | SS NO LOGO'S BEARING & GREASE DATA       | 1.000 EA |
| 07PA1011    | PKG GRP, 07 CAST IRON PK1181             | 1.000 EA |
| 10XL3808A28 | 3/8 X 1 3/4" LAG SCREW                   | 2.000 EA |
| MN416A01    | TAG-INSTAL-MAINT no wire (1200/bx) 5/18  | 1.000 EA |
| LB1417      | LABEL CARTON 6X4 PERFORATED BLANK ROLLS  | 1.000 EA |



| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 37-1304     | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 24821 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 07WGX802-R001 | <b>Type:</b> 0722M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>2nd Voltage Connection |                |
|-----------------------|--------------|--------------|----|-----------------------------------------|----------------|
| Rated Output (HP)     | 3            |              |    | Full Load Torque                        | 14.2 LB-FT     |
| Volts                 | 230/460/796  |              |    | Start Configuration                     | direct on line |
| Full Load Amps        | 10.8/5.4/3.1 |              |    | Breakdown Torque                        | 49.2 LB-FT     |
| R.P.M.                | 1115         |              |    | Pull-up Torque                          | 40 LB-FT       |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                     | 46.8 LB-FT     |
| NEMA Design Code      | D            | KVA Code     | J  | Starting Current                        | 28.5 A         |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                         | 3.71 A         |
| NEMA Nom. Eff.        | 80           | Power Factor | 66 | Line-line Res. @ 25°C                   | 3.54 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                 | 65°C           |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                  | 83°C           |

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

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 28   | 44   | 56   | 66   | 72   | 76   | 70   |
| Efficiency      | 68.4 | 78.2 | 80.5 | 80   | 78.2 | 75.5 | 78.9 |
| Speed           | 1182 | 1163 | 1142 | 1115 | 1086 | 1056 | 1098 |
| Line amperes    | 3.71 | 4.1  | 4.65 | 5.41 | 6.29 | 7.29 | 5.94 |

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





