



## Product Information Packet

# VECP3661T-4

3HP,1755RPM,3PH,60HZ,182TC,0632M,TEFC,F1

| Part Detail |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | G      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 06WGX240   | CD Diagram: | CD0006 | Mfg Plant:    |            |
| Mech. Spec: | 06H480 | Layout:     | 06LYH480   | Poles:      | 04     | Created Date: | 09-26-2013 |
| Base:       | N      | Eff. Date:  | 04-06-2017 | Leads:      | 3#16   |               |            |

| Specs                           |                         |                                |                             |
|---------------------------------|-------------------------|--------------------------------|-----------------------------|
| Catalog Number:                 | VECP3661T-4             | Insulation Class:              | F                           |
| Enclosure:                      | TEFC                    | Inverter Code:                 | Inverter Duty               |
| Frame:                          | 182TC                   | KVA Code:                      | J                           |
| Frame Material:                 | Iron                    | Lifting Lugs:                  | Standard Lifting Lugs       |
| Output @ Frequency:             | 3.000 HP @ 60 HZ        | Locked Bearing Indicator:      | Locked Bearing              |
| Synchronous Speed @ Frequency:  | 1800 RPM @ 60 HZ        | Motor Lead Quantity/Wire Size: | 3 @ 16 AWG                  |
| Voltage @ Frequency:            | 460.0 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:                    | 0632M                       |
| Agency Approvals:               | CSA EEV                 | Mounting Arrangement:          | F1                          |
|                                 | UR                      | Power Factor:                  | 77                          |
|                                 | CSA                     | Product Family:                | Super-E Chemical Processing |
|                                 | CCSA US                 | Pulley End Bearing Type:       | Ball                        |
| Auxillary Box:                  | No Auxillary Box        | Pulley Face Code:              | C-Face                      |
| Auxillary Box Lead Termination: | None                    | Pulley Shaft Indicator:        | Standard                    |
| Base Indicator:                 | No Mounting             | Rodent Screen:                 | None                        |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Shaft Extension Location:      | Pulley End                  |
| Blower:                         | None                    | Shaft Ground Indicator:        | No Shaft Grounding          |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Constant Torque Speed Range:</b>   | 1.5                       | <b>Shaft Rotation:</b>             | Reversible          |
| <b>Current @ Voltage:</b>             | 4.100 A @ 460.0 V         | <b>Shaft Slinger Indicator:</b>    | Shaft Slinger       |
| <b>Design Code:</b>                   | B                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | 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>Heater Indicator:</b>              | No Heater                 | <b>Winding Thermal 2:</b>          | None                |
|                                       |                           | <b>XP Temp Code:</b>               | T3C                 |

## Nameplate NP3257E

|              |              |      |      |
|--------------|--------------|------|------|
| CAT.NO.      | VECP3661T-4  |      |      |
| SPEC.        | 06H480X240G1 |      |      |
| HP           | 3            | TE   |      |
| VOLTS        | 460          |      |      |
| AMP          | 4.1          |      |      |
| RPM          | 1755         |      |      |
| FRAME        | 182TC        | HZ   | 60   |
| SER.F.       | 1.15         | CODE | J    |
|              |              | DES  | B    |
| RATING       | 40C AMB-CONT |      |      |
| SN           |              |      |      |
| DE           | 6206         | ODE  | 6206 |
| NEMA-NOM-EFF | 89.5         | PF   | 77   |
| G.MIN.EFF    | 87.5         | CC   | 010A |
| T. CODE      | T3C          | T=   | 160  |

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

Nameplate NP3260E

|             |              |                         |      |
|-------------|--------------|-------------------------|------|
| SPEC.       | 06H480X240G1 |                         |      |
| D.E. BRG.   | 30BC02XP30X  |                         |      |
| O.D.E. BRG. | 30BC02XP30X  |                         |      |
| GREASE      | POLYREX EM   |                         |      |
| RPM MAX     | 2700         | MAX. KVAR               | 0.86 |
| BLANK       |              |                         |      |
| INV.TYPE    | PWM          |                         |      |
| T=          | 160          |                         |      |
| C HP FR     | 60           | C HP TO                 | 90   |
| CT HZ FROM  | 1.5          | CT HZ TO                | 60   |
| VT HZ FROM  | 0-           | VT HZ TO                | 60   |
| HTR-VOLTS   |              | HTR-AMPS                |      |
| HTR-WATTS   |              |                         |      |
|             |              | MAX. SPACE HEATER TEMP. |      |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA269801      | SA 06H480X240G1                          | 1.000 EA |
| RA256446      | RA 06H480X240G1                          | 1.000 EA |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID          | 1.000 EA |
| HW3201A05     | 3/8-16 EYEBOLT                           | 1.000 EA |
| 06CB1000A02G  | CONDUIT BOX, MACH GRAY                   | 1.000 EA |
| RM1016        | LEAD SEPARATOR GASKET - 305/306 C.P.MOTO | 1.000 EA |
| 51XF2520A16   | SCREW,HEX SER SLT HD,ZN 1/4-20X1.00LG TD | 2.000 EA |
| WD1000B16     | T&B CX70TN TERMINAL                      | 2.000 EA |
| 10XN2520S06   | 1/4 20X3/8 HX HD CAP S.S.                | 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 |
| 36EP1100B73G  | FREP 6206,GRSR,RLF,.25-20 FH HOLES @.50  | 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 |
| 36EP1300A48G  | SPL PU 206 BRG. 182-4TC W/GREASER & RELI | 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 |
| 10XN2520A24   | 1/4-20X 1 1/2 HEX HD X                   | 4.000 EA |
| HA3101A34     | THRUBOLT- 1/4-20 X 10.375                | 4.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 51XB1214A16            | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| 36FH1001A02G           | FAN HOUSING MACH, W/GRAY EPOXY           | 1.000 EA |
| 10XN2520A16            | 1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED | 3.000 EA |
| WD4100A02              | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL  | 1.000 EA |
| 36FH4500A10            | DRIP/FAN COVER, W/PRIMER                 | 1.000 EA |
| 12XF0832A06            | 8-32 X 3/8 TYP HX SL                     | 4.000 EA |
| 06CB1502A01G           | LIPPED CONDUIT BOX LID, MACH GRAY EPOXY  | 1.000 EA |
| 06GS1003               | GASKET, KOBX LID, 1/8" THICK BLACK NEOPR | 1.000 EA |
| 10XN2520A12            | O1/4-20X 3/4 HEX HEAD CAP                | 2.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| HA1005A22              | SLINGER, OD 2.00, ID 1.14, 206 BRG, GM   | 1.000 EA |
| HW4600B36SP            | V-RING SLINGER 1.188 X 1.690 X .24 VITON | 1.000 EA |
| HW2501E16              | KEY, 1/4 SQ X 1.750                      | 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              | 2.000 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| LB1002N                | LABEL,MARINE DUTY (ON ROLLS)             | 1.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1025N19              | WILKOFASST, 778.50, RELIANCE BLUE-GREEN  | 0.028 GA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LB1449                 | DIV-2/NEC WARNING LABEL                  | 1.000 EA |
| LC0006                 | CONNECTION LABEL                         | 1.000 EA |
| NP3257E                | SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM | 1.000 EA |

|             |                                         |          |
|-------------|-----------------------------------------|----------|
| NP3260E     | SS CP SUPER-E AUX DATA INFORMATION      | 1.000 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS             | 2.000 EA |
| 36PA1001    | PKG GRP, PRINT      PK1017A06           | 1.000 EA |
| PK3082      | STYROFOAM CRADLE                        | 1.000 EA |
| MN416A01    | TAG-INSTAL-MAINT no wire (1200/bx) 5/18 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 46989 - Typical performance - not guaranteed values

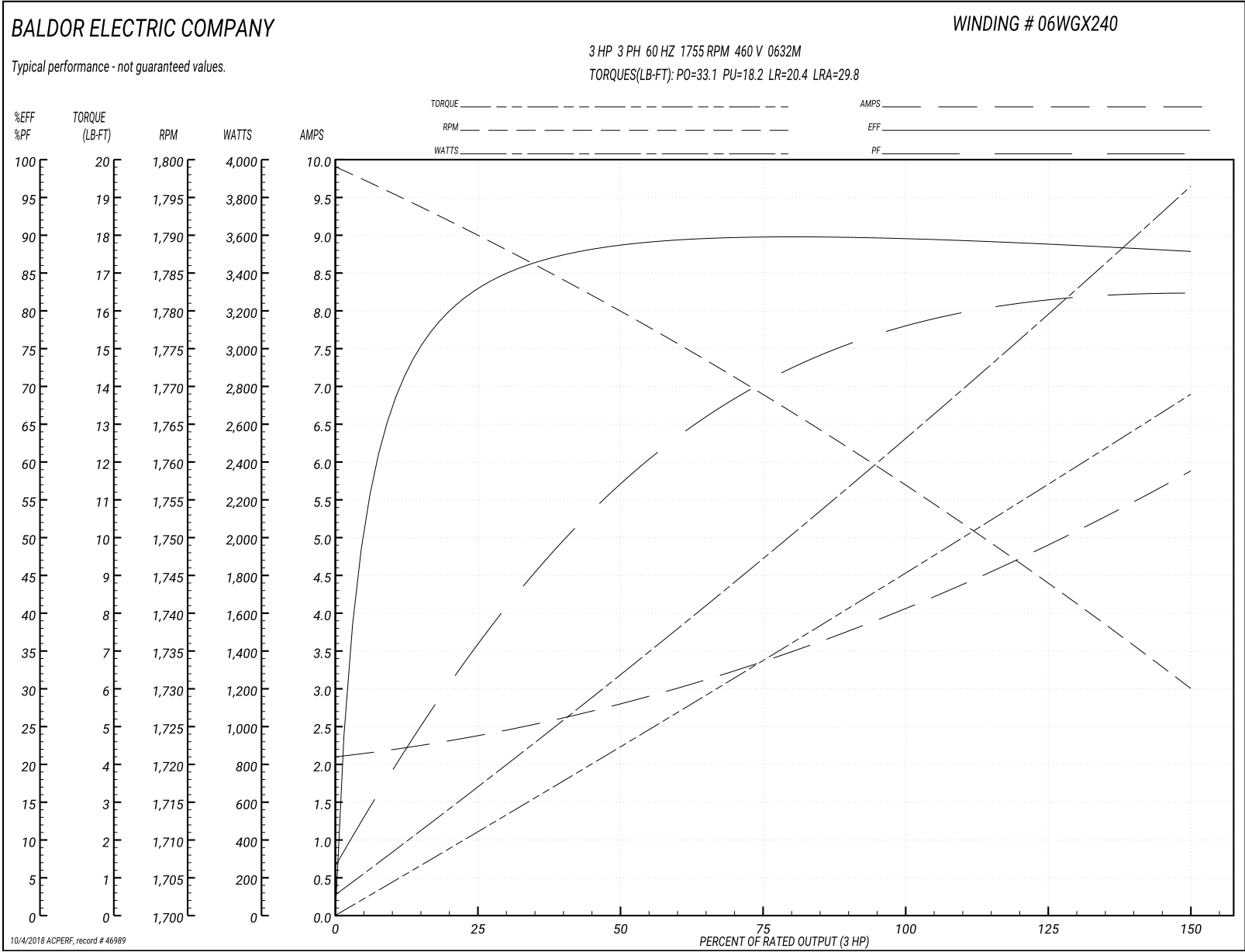
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 06WGX240-R041 | <b>Type:</b> 0632M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

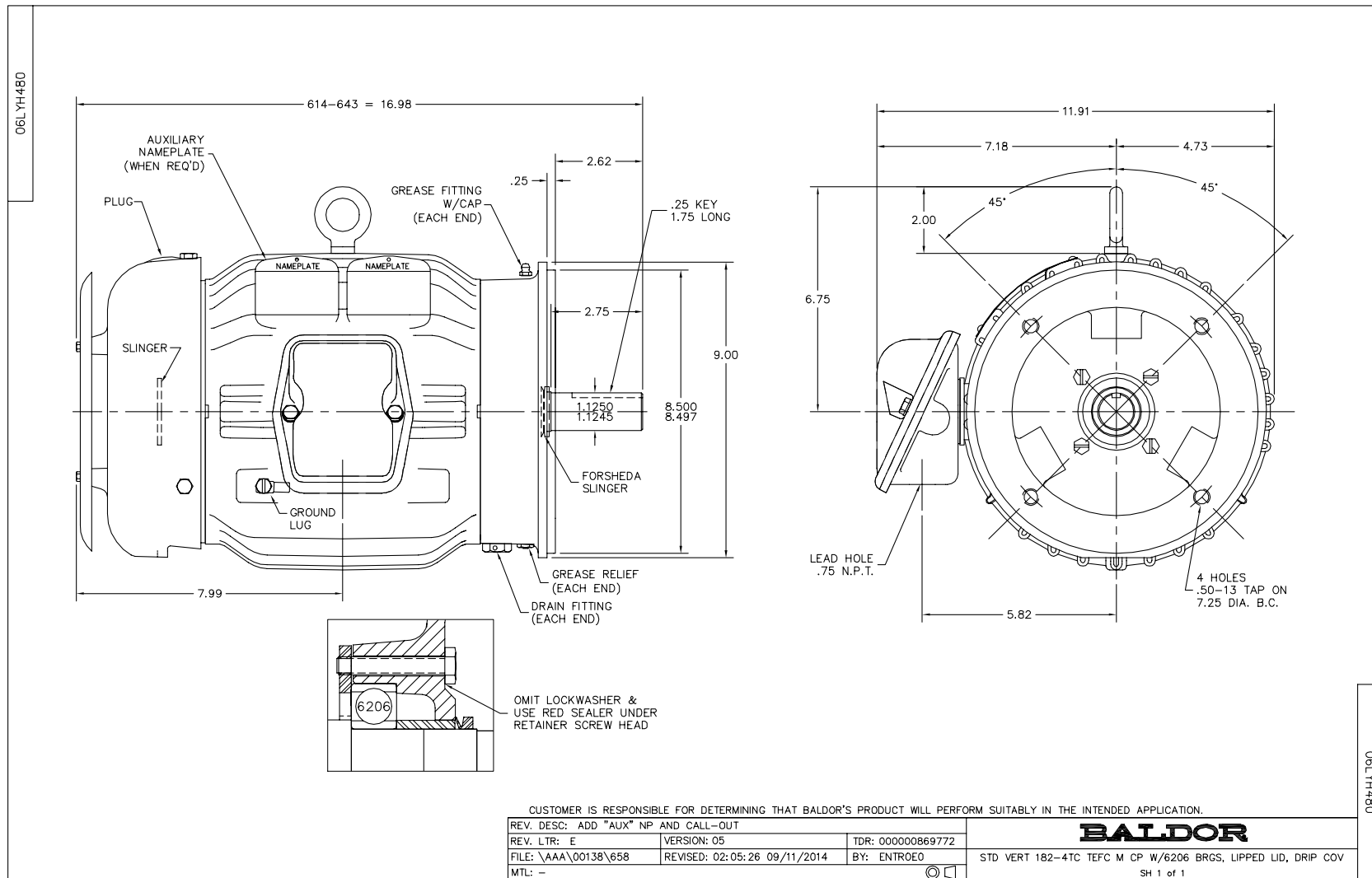
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>Single Voltage Motor |                          |
|-----------------------|--------------|--------------|----|---------------------------------------|--------------------------|
| Rated Output (HP)     | 3            |              |    | Full Load Torque                      | 9.06 LB-FT               |
| Volts                 | 460          |              |    | Start Configuration                   | direct on line           |
| Full Load Amps        | 4.1          |              |    | Breakdown Torque                      | 33.1 LB-FT               |
| R.P.M.                | 1755         |              |    | Pull-up Torque                        | 18.2 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                   | 20.4 LB-FT               |
| NEMA Design Code      | B            | KVA Code     | J  | Starting Current                      | 29.8 A                   |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                       | 2.14 A                   |
| NEMA Nom. Eff.        | 89.5         | Power Factor | 77 | Line-line Res. @ 25°C                 | 3.93 Ω                   |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load               | 35°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                | 42°C                     |
|                       |              |              |    | Locked-rotor Power Factor             | 41.4                     |
|                       |              |              |    | Rotor inertia                         | 0.298 LB-FT <sup>2</sup> |

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

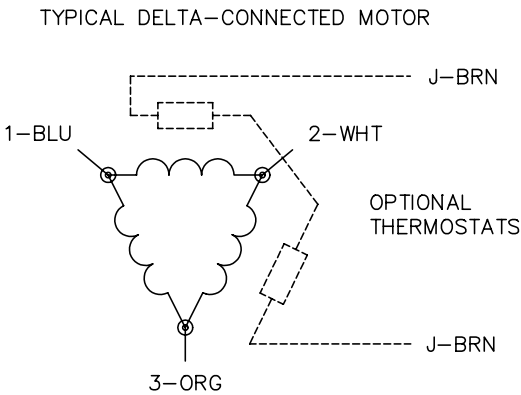
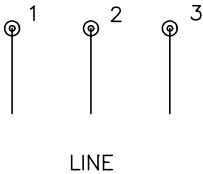
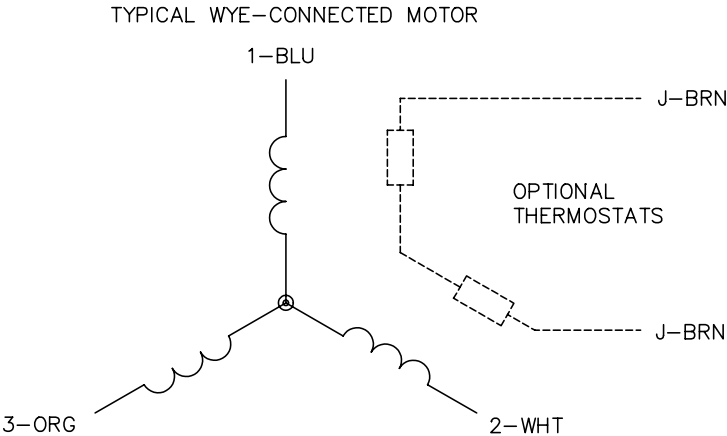
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 38   | 58   | 70   | 77   | 81   | 83   | 79   |
| Efficiency      | 83.2 | 88.3 | 89.8 | 89.7 | 89.1 | 87.7 | 89.3 |
| Speed           | 1790 | 1779 | 1769 | 1757 | 1744 | 1730 | 1749 |
| Line amperes    | 2.34 | 2.79 | 3.39 | 4.1  | 4.91 | 5.86 | 4.59 |

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





CD0006



- NOTES:
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
  2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
  5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

|                                           |         |                        |              |
|-------------------------------------------|---------|------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                        |              |
| REV. LTR: D                               | BY: JLP | REVISED: 01/21/99 4:02 | TDR: 0171435 |
| 90000D                                    |         | FILE: AAA00005141      | MDL: -       |
|                                           |         | MTL: -                 |              |

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006