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# Customer information packet

## SUM77506-4

75HP, 1170RPM, 3PH, 60HZ, 360TY, TENV, FOOTLE

Class - None

Division - Not Applicable

## Specifications

|                          |                         |
|--------------------------|-------------------------|
| Enclosure                | XPNV                    |
| Frame                    | 360TY                   |
| Frame Material           | Iron                    |
| Haz Area Class and Group | None                    |
| Haz Area Division        | Not Applicable          |
| Motor Letter Type        | Three Phase             |
| Phase                    | 3                       |
| Agency Approvals         | CCSA US<br>CSA<br>UL    |
| Auxiliary Box            | NO AUXILLARY BOX        |
| Base Indicator           | Rigid                   |
| Bearing Grease Type      | Polyrex EM (-20F +300F) |
| Cable Length             | 25 FOOT                 |
| Design Code              | B                       |
| Drip Cover               | No Drip Cover           |
| Duty Rating              | 15 MIN                  |
| Feedback Device          | NO FEEDBACK             |
| Frame Prefix             | X                       |
| Haz Area Temp Code       | T3C                     |
| Heater Indicator         | No Heater               |
| Inverter Code            | Not Inverter            |
| Lifting Lugs             | Standard Lifting Lugs   |
| Motor Standards          | NEMA                    |
| Motor Type               | M                       |
| Mounting Arrangement     | W6                      |
| Number of Poles          | 6                       |
| Pulley End Bearing Type  | Ball                    |
| Pulley Face Code         | Standard                |
| Service Factor           | 1.15                    |
| Shaft Ground Indicator   | No Shaft Grounding      |
| Shaft Rotation           | Reversible              |

## Part detail

|              |               |
|--------------|---------------|
| Revision     | D             |
| Type         | AC            |
| Mech. spec.  |               |
| Base         |               |
| Status       | PRD/A         |
| Elec. spec.  | W00089B E 001 |
| Layout       | 066930-508    |
| Eff. date    | 01-21-2025    |
| CD Diagram   | 416820-036    |
| Poles        | 06            |
| Leads        |               |
| Proprietary  | False         |
| Created date | 04-09-2015    |

|                          |                |
|--------------------------|----------------|
| Shaft Slinger Indicator  | No Slinger     |
| Speed Code               | Single Speed   |
| Starting Method          | Direct on line |
| Thermal Device - Bearing | None           |
| Thermal Device - Winding | None           |

**Nameplate**

|                     |       |     |
|---------------------|-------|-----|
| 000613007RC         |       |     |
| CLASS I GROUP       | C D X | NO. |
| CLASS II GROUP      | X X X |     |
| OPERATING TEMP CODE | T3C   |     |

| 000692000MB                   |  |
|-------------------------------|--|
| SUITABLE FOR OPERATION ON PWM |  |
| INVERTER EQUIPPED WITH IGBT   |  |
| DEVICES AND CAPABLE OF        |  |
| CARRIER                       |  |
| FREQUENCY OF 2 KHZ MINIMUM    |  |
|                               |  |
|                               |  |
|                               |  |
|                               |  |

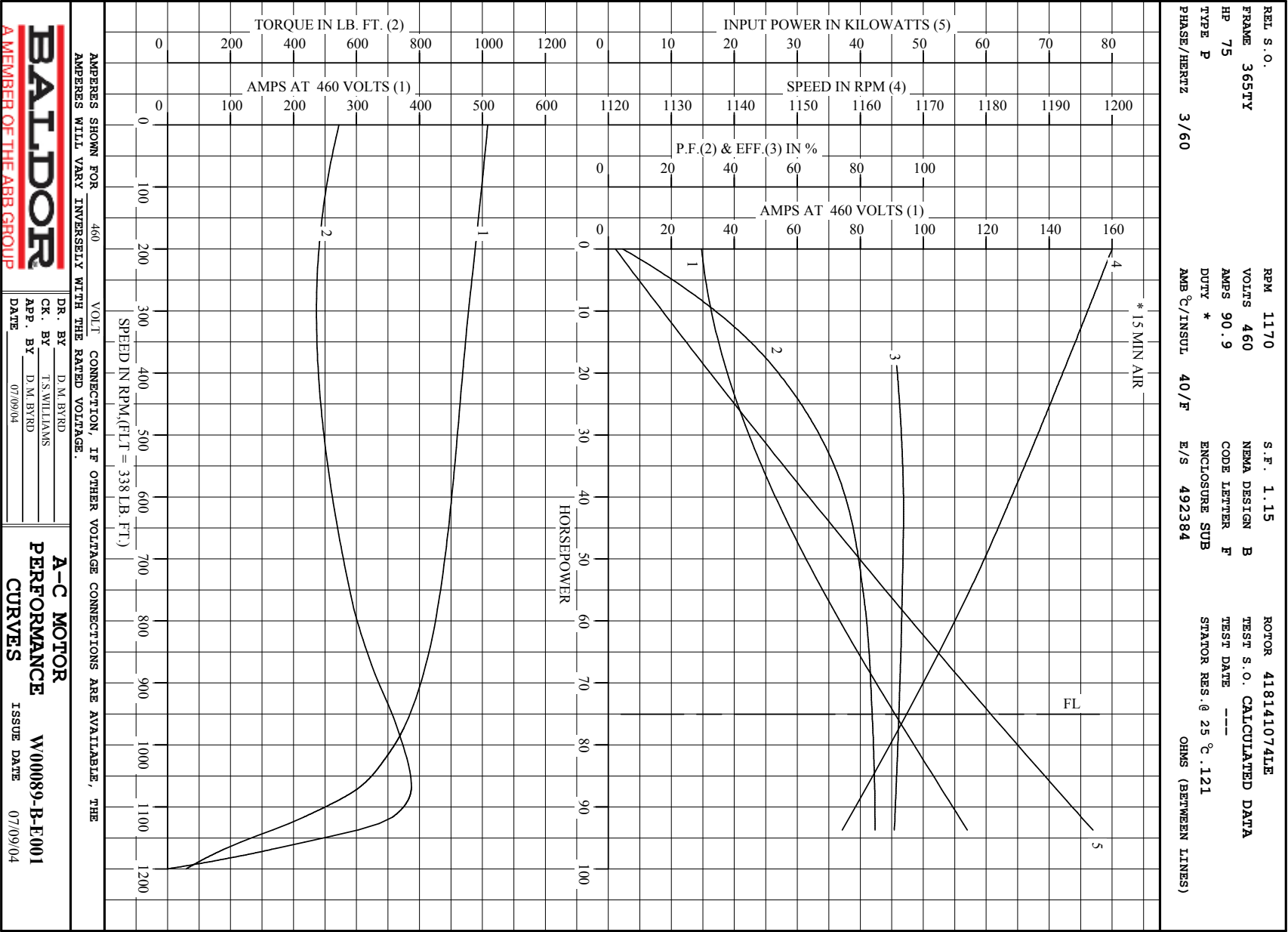
000613007MS

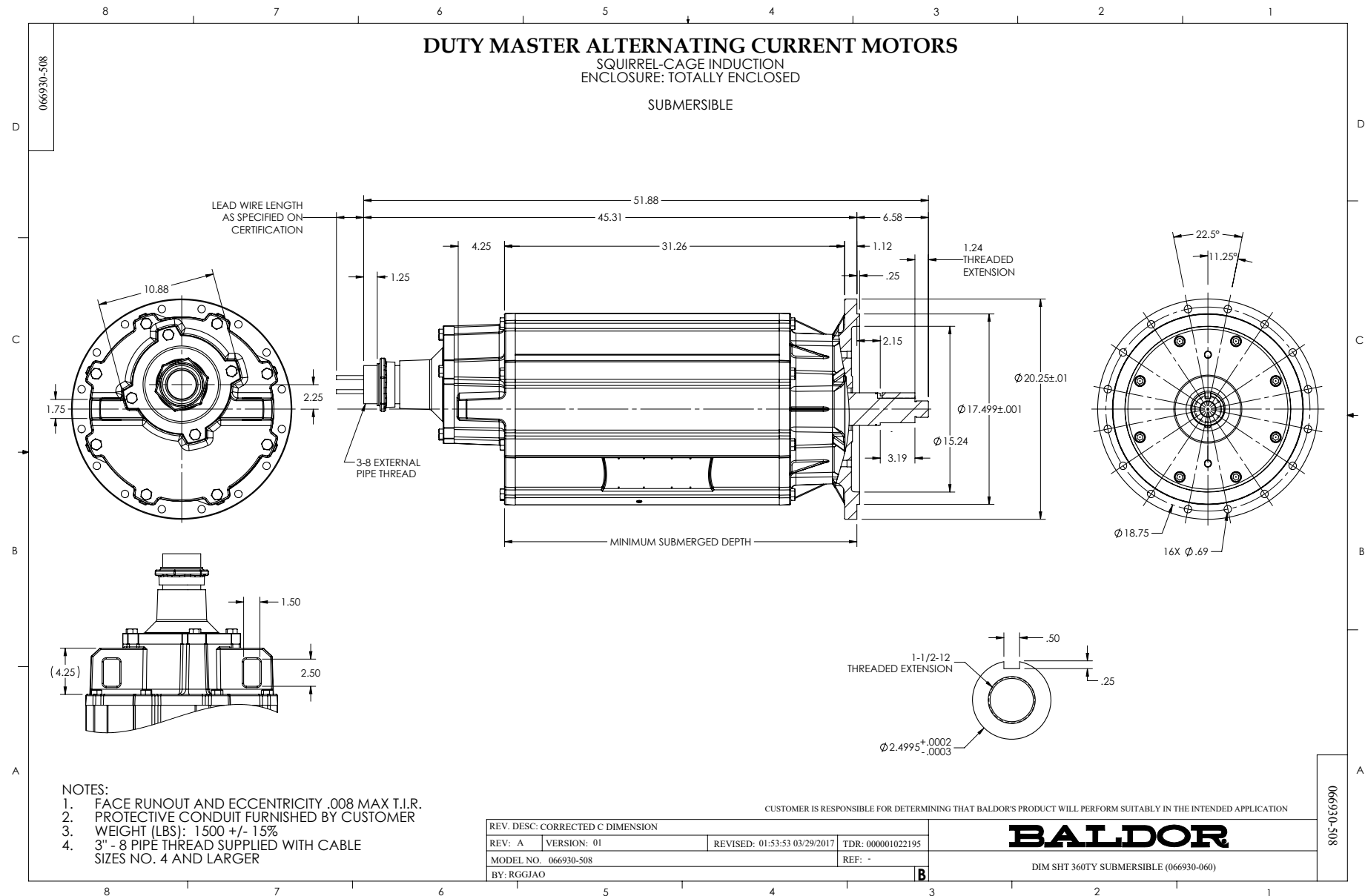
|                 |                     |                         |             |          |              |          |         |       |        |   |
|-----------------|---------------------|-------------------------|-------------|----------|--------------|----------|---------|-------|--------|---|
| CONSTANT HP RPM | CAT.NO.             | SUM77506-4              |             | SPEC NO. |              | P36G2700 |         |       |        |   |
|                 | SER.NO.             |                         |             |          | FRAME SIZE   |          | X0360TY |       |        |   |
|                 |                     | HP                      | RPM         | VOLTS    | AMPS         | HZ       |         | S.F.  |        |   |
|                 |                     | 75                      | 1170        | 460      |              | 90.9     | 6-60    | 1.00  |        |   |
|                 |                     | 75                      | 1170        | 460      |              | 90.9     | 60      | 1.15  |        |   |
|                 |                     | @                       |             |          | HZ           | CODE     | F       |       |        |   |
|                 | TYPE                | P                       | INSUL.CLASS |          | F            | TORQUE   | 10:1_VT |       | DESIGN | B |
|                 | D.E. BRG.           | 90BJ33J30X              |             |          | ENCL         | TENV     | DUTY    | 15MIN | PH     | 3 |
|                 | O.D.E. BRG.         | 50BC03JG30X             |             |          | MOTOR WEIGHT |          |         | AMB   | 40     |   |
|                 |                     | *15 MIN IN AIR ;SUB. IN |             |          |              |          |         |       |        |   |
|                 | SEWAGE / WATER ONLY |                         |             |          |              |          |         |       |        |   |
|                 | P36G2700D           |                         |             |          |              |          |         |       |        |   |

000613007RT

|                        |                         |                     |              |               |             |               |   |
|------------------------|-------------------------|---------------------|--------------|---------------|-------------|---------------|---|
| <b>CAT.NO.</b>         | SUM77506-4              | <b>SPEC NO.</b>     | P36G2700     |               |             |               |   |
| <b>SER.NO.</b>         |                         | <b>FRAME SIZE</b>   | X0360TY      |               |             |               |   |
|                        | <b>HP</b>               | <b>RPM</b>          | <b>VOLTS</b> | <b>AMPS</b>   | <b>HZ</b>   | <b>S.F.</b>   |   |
|                        | 75                      | 1170                | 460          | 90.9          | 6-60        | 1.00          |   |
|                        | 75                      | 1170                | 460          | 90.9          | 60          | 1.15          |   |
| <b>CONSTANT HP RPM</b> |                         | @                   |              | <b>HZ</b>     | <b>CODE</b> | F             |   |
| <b>TYPE</b>            | P                       | <b>INSUL.CLASS</b>  | F            | <b>TORQUE</b> | 10:1_VT     | <b>DESIGN</b> | B |
| <b>D.E. BRG.</b>       | 90BJ33J30X              | <b>ENCL</b>         | TENV         | <b>DUTY</b>   | 15MIN       | <b>PH</b>     | 3 |
| <b>O.D.E. BRG.</b>     | 50BC03JG30X             | <b>MOTOR WEIGHT</b> |              | <b>AMB</b>    | 40          |               |   |
|                        | *15 MIN IN AIR ;SUB. IN |                     |              |               |             |               |   |
|                        | SEWAGE / WATER ONLY     |                     |              |               |             |               |   |
|                        | P36G2700D               |                     |              |               |             |               |   |

|                                                                                                                                            |             |                                                                                   |                   |                                                                       |                      |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|----------------------|----------------------|
| REL.<br>S.O.                                                                                                                               | FRAME       | HP                                                                                | TYPE              | PHASE/<br>HERTZ                                                       | RPM                  | VOLTS                |
|                                                                                                                                            | 365TY       | 75                                                                                | P                 | 3/60                                                                  | 1170                 | 460                  |
| AMPS                                                                                                                                       | DUTY        | AMB °C/<br>INSUL.                                                                 | S. F.             | NEMA<br>DESIGN                                                        | CODE<br>LETTER       | ENCL.                |
| 90.9                                                                                                                                       | *           | 40/F                                                                              | 1.15              | B                                                                     | F                    | SUB                  |
| E/S                                                                                                                                        | ROTOR       | TEST<br>S.O.                                                                      | TEST<br>DATE      | STATOR RES. @25 °C<br>(BETWEEN LINES)                                 |                      |                      |
| 492384                                                                                                                                     | 418141074LE | ---                                                                               | ---               | .121                                                                  |                      |                      |
| PERFORMANCE                                                                                                                                |             |                                                                                   |                   |                                                                       |                      |                      |
| LOAD                                                                                                                                       | HP          | AMPERES                                                                           | RPM               | INPUT<br>KW                                                           | %<br>POWER<br>FACTOR | %<br>EFFI-<br>CIENCY |
| NO LOAD                                                                                                                                    | 0           | 29.7                                                                              | 1200              | 1.08                                                                  | 4.56                 | 0                    |
| 1/4                                                                                                                                        | 18.8        | 36.9                                                                              | 1193              | 15.3                                                                  | 52.1                 | 91.6                 |
| 2/4                                                                                                                                        | 37.5        | 50.9                                                                              | 1185              | 29.9                                                                  | 73.7                 | 93.6                 |
| 3/4                                                                                                                                        | 56.2        | 69.5                                                                              | 1177              | 45.0                                                                  | 81.2                 | 93.3                 |
| 4/4                                                                                                                                        | 75.0        | 90.9                                                                              | 1168              | 60.7                                                                  | 83.8                 | 92.3                 |
| 5/4                                                                                                                                        | 93.7        | 114                                                                               | 1157              | 77.0                                                                  | 84.7                 | 90.8                 |
| SPEED TORQUE                                                                                                                               |             |                                                                                   |                   |                                                                       |                      |                      |
|                                                                                                                                            | RPM         | TORQUE<br>% FULL LOAD                                                             | TORQUE<br>LB.-FT. | AMPERES                                                               |                      |                      |
| LOCKED ROTOR                                                                                                                               | 0           | 161                                                                               | 544               | 508                                                                   |                      |                      |
| PULL UP                                                                                                                                    | 300         | 140                                                                               | 473               | 478                                                                   |                      |                      |
| BREAKDOWN                                                                                                                                  | 1068        | 229                                                                               | 774               | 306                                                                   |                      |                      |
| FULL LOAD                                                                                                                                  | 1168        | 100                                                                               | 338               | 90.9                                                                  |                      |                      |
| AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE |             |                                                                                   |                   |                                                                       |                      |                      |
| REMARKS: CALCULATED DATA<br>* 15 MIN AIR                                                                                                   |             |                                                                                   |                   |                                                                       |                      |                      |
| BALDOR                                                                                                                                     |             | DR. BY D. M. BYRD<br>CR. BY T. S. WILLIAMS<br>APP. BY D. M. BYRD<br>DATE 07/09/04 |                   | A-C MOTOR<br>PERFORMANCE W00089-B-E001<br>DATA<br>ISSUE DATE 07/09/04 |                      |                      |
| A MEMBER OF THE ABB GROUP                                                                                                                  |             |                                                                                   |                   |                                                                       |                      |                      |





416820-036

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 3 LEAD                      CONNECTED



(N.P. 1575-BA)

416820-036

|                                      |             |                                |
|--------------------------------------|-------------|--------------------------------|
| REV. DESC: LOADED TO BUS, C/R 335225 |             |                                |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |
| FILE: \MGA\00000\682                 |             | REVISED: 11: 54: 06 04/30/2010 |
| MTL: -                               |             | BY: RAGRA                      |

**BALDOR**

CONN DIAG - STANDARD 3 LEAD  
SH 1 of 1