

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP4411T-5

125HP, 1190RPM, 3PH, 60HZ, 445T, TEFC, F1

**Specifications**

|                               |                         |
|-------------------------------|-------------------------|
| Enclosure                     | TEFC                    |
| Frame                         | 445T                    |
| Frame Material                | Iron                    |
| Frequency                     | 60.00 Hz                |
| Motor Letter Type             | Three Phase             |
| Output @ Frequency            | 125.000 HP @ 60 HZ      |
| Phase                         | 3                       |
| Synchronous Speed @ Frequency | 1200 RPM @ 60 HZ        |
| Voltage @ Frequency           | 575.0 V @ 60 HZ         |
| Agency Approvals              | CCSAUSEEV               |
| Ambient Temperature           | 40 °C                   |
| Base Indicator                | Rigid                   |
| Bearing Grease Type           | Polyrex EM (-20F +300F) |
| Constant Torque Speed Range   | 15-60                   |
| Current @ Voltage             | 116.000 A @ 575.0 V     |
| Design Code                   | B                       |
| Duty Rating                   | CONT                    |
| Efficiency @ 100% Load        | 95.0 %                  |
| Enclosure Modification        | Severe Duty Features    |
| Feedback Device               | NO FEEDBACK             |
| Haz Area Temp Code            | T3                      |
| Heater Indicator              | No Heater               |
| High Voltage Full Load Amps   | 116.0 a                 |
| Insulation Class              | F                       |
| Inverter Code                 | Not Inverter            |
| KVA Code                      | G                       |
| Motor Lead Quantity/Wire Size | 3 @ 2 AWG               |
| Motor Standards               | NEMA                    |
| Motor Type                    | A44076M                 |
| Mounting Arrangement          | F1                      |
| Number of Poles               | 6                       |
| Overall Length                | 44.97 IN                |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A44WG2122  |
| Layout       | 617435-945 |
| Eff. date    | 12-10-2025 |
| CD Diagram   | 416820-036 |
| Poles        | 06         |
| Leads        | 3#2        |
| Proprietary  | False      |
| Created date | 10-01-2019 |

|                                 |                    |
|---------------------------------|--------------------|
| <b>Power Factor</b>             | 85                 |
| <b>Product Family</b>           | General Industrial |
| <b>Pulley End Bearing Type</b>  | Ball               |
| <b>Service Factor</b>           | 1.15               |
| <b>Shaft Diameter</b>           | 3.375 IN           |
| <b>Shaft Rotation</b>           | Reversible         |
| <b>Shaft Slinger Indicator</b>  | Shaft Slinger      |
| <b>Speed</b>                    | 1190 rpm           |
| <b>Speed Code</b>               | Single Speed       |
| <b>Starting Method</b>          | Direct on line     |
| <b>Thermal Device - Winding</b> | None               |

**Nameplate**

|                  |  |
|------------------|--|
| NP2496L          |  |
| MOBIL POLYREX EM |  |

000901002AAA

IP55 CONSTRUCTION

**NP3238**

|                    |            |                 |       |              |      |                       |                     |      |      |             |   |
|--------------------|------------|-----------------|-------|--------------|------|-----------------------|---------------------|------|------|-------------|---|
| CAT NO             | ECP4411T-5 |                 |       | SPEC NO.     |      | A44-8639-2122         |                     |      |      |             |   |
| HP                 | 125        | AMPS            | 116   | VOLTS        |      | 575                   | DESIGN              | B    |      |             |   |
| FRAME              | 445T       | RPM             | 1190  | HZ           | 60   | AMB                   | 40                  | SF   | 1.15 |             |   |
| D.E. BRG.DATA      | 6318       | O.D.E. BRG.DATA |       |              | 6318 | PH                    | 3                   | DUTY | CONT | INSUL.CLASS | F |
| D.E. BRG.          | 90BC03J30X |                 |       | TYPE         | P    | ENCL                  | TEFC                | CODE | G    |             |   |
| O.D.E. BRG.        | 90BC03J30X |                 |       | POWER FACTOR |      | 85                    | NEMA NOM EFFICIENCY |      |      | 95          |   |
| 3/4 LOAD EFF.      | 95.1       | MAX CORR KVAR   |       | 28.0         |      | GUARANTEED EFFICIENCY |                     |      | 94.1 |             |   |
| TEMP CODE          | T3         | TEMP =          |       | 200          |      |                       |                     |      |      |             |   |
| CHP HZ             | 60-90      | CT HZ           | 15-60 | VT HZ        |      | 0-60                  |                     |      |      |             |   |
| INVERTER-TEMP-CODE | T3         |                 |       |              |      |                       |                     |      |      |             |   |
| SER.NO.            |            |                 |       | MOTOR WEIGHT |      |                       |                     |      |      |             |   |

|                                                                                                                                                                                                        |             |                   |                                       |                                            |                 |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|---------------------------------------|--------------------------------------------|-----------------|-------|
| REL.<br>S.O.                                                                                                                                                                                           | FRAME       | HP                | TYPE                                  | PHASE/<br>HERTZ                            | RPM             | VOLTS |
|                                                                                                                                                                                                        | 445T        | 125               | P                                     | 3/60                                       | 1190            | 575   |
| AMPS                                                                                                                                                                                                   | DUTY        | AMB °C/<br>INSUL. | S.F.                                  | NEMA<br>DESIGN                             | CODE<br>LETTER  | ENCL. |
| 116                                                                                                                                                                                                    | CONT        | 40/F              | 1.15                                  | B                                          | G               | TEFC  |
| E/S                                                                                                                                                                                                    | ROTOR       | TEST<br>S.O.      | TEST<br>DATE                          | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES) |                 |       |
| -                                                                                                                                                                                                      | 418143080GE | ---               | ---                                   | .0639                                      |                 |       |
| PERFORMANCE                                                                                                                                                                                            |             |                   |                                       |                                            |                 |       |
| LOAD                                                                                                                                                                                                   | HP          | AMPERES           | RPM                                   | %<br>POWER FACTOR                          | %<br>EFFICIENCY |       |
| NO LOAD                                                                                                                                                                                                | 0           | 34.3              | 1200                                  | 5.68                                       | 0               |       |
| 1/4                                                                                                                                                                                                    | 31.3        | 44.6              | 1198                                  | 57.4                                       | 91.7            |       |
| 2/4                                                                                                                                                                                                    | 62.5        | 64.2              | 1195                                  | 77.1                                       | 94.6            |       |
| 3/4                                                                                                                                                                                                    | 93.7        | 88.6              | 1192                                  | 83.2                                       | 95.1            |       |
| 4/4                                                                                                                                                                                                    | 125         | 116               | 1190                                  | 85.2                                       | 95.0            |       |
| 5/4                                                                                                                                                                                                    | 156         | 144               | 1186                                  | 86.1                                       | 94.6            |       |
|                                                                                                                                                                                                        |             |                   |                                       |                                            |                 |       |
| SPEED TORQUE                                                                                                                                                                                           |             |                   |                                       |                                            |                 |       |
|                                                                                                                                                                                                        |             | RPM               | TORQUE<br>% FULL LOAD                 | TORQUE<br>LB.-FT.                          | AMPERES         |       |
| LOCKED ROTOR                                                                                                                                                                                           |             | 0                 | 141                                   | 775                                        | 725             |       |
| PULL UP                                                                                                                                                                                                |             | 180               | 126                                   | 695                                        | 720             |       |
| BREAKDOWN                                                                                                                                                                                              |             | 1146              | 279                                   | 1537                                       | 390             |       |
| FULL LOAD                                                                                                                                                                                              |             | 1190              | 100                                   | 551                                        | 116             |       |
| AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE<br>AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE<br><br>REMARKS: TYPICAL DATA<br>NEMA NOM. EFF.= 95.0 PCT |             |                   |                                       |                                            |                 |       |
|                                                                                                                     |             | DR. BY            | W. L. SMITH                           | <b>A-C MOTOR<br/>PERFORMANCE DATA</b>      |                 |       |
|                                                                                                                                                                                                        |             | CK. BY            | C. E. JAMISON                         |                                            |                 |       |
|                                                                                                                                                                                                        |             | APP. BY           | W. L. SMITH                           |                                            |                 |       |
|                                                                                                                                                                                                        |             | DATE              | 10/16/18                              |                                            |                 |       |
|                                                                                                                                                                                                        |             |                   | A44WG2122-R012<br>ISSUE DATE 05/05/21 |                                            |                 |       |

REL S.O.

 RPM **1190**

 S.F. **1.15**

 ROTOR **418143080GE**

 FRAME **445T**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **125**

 AMPS **116**

 CODE LETTER **G**

TEST DATE ---

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

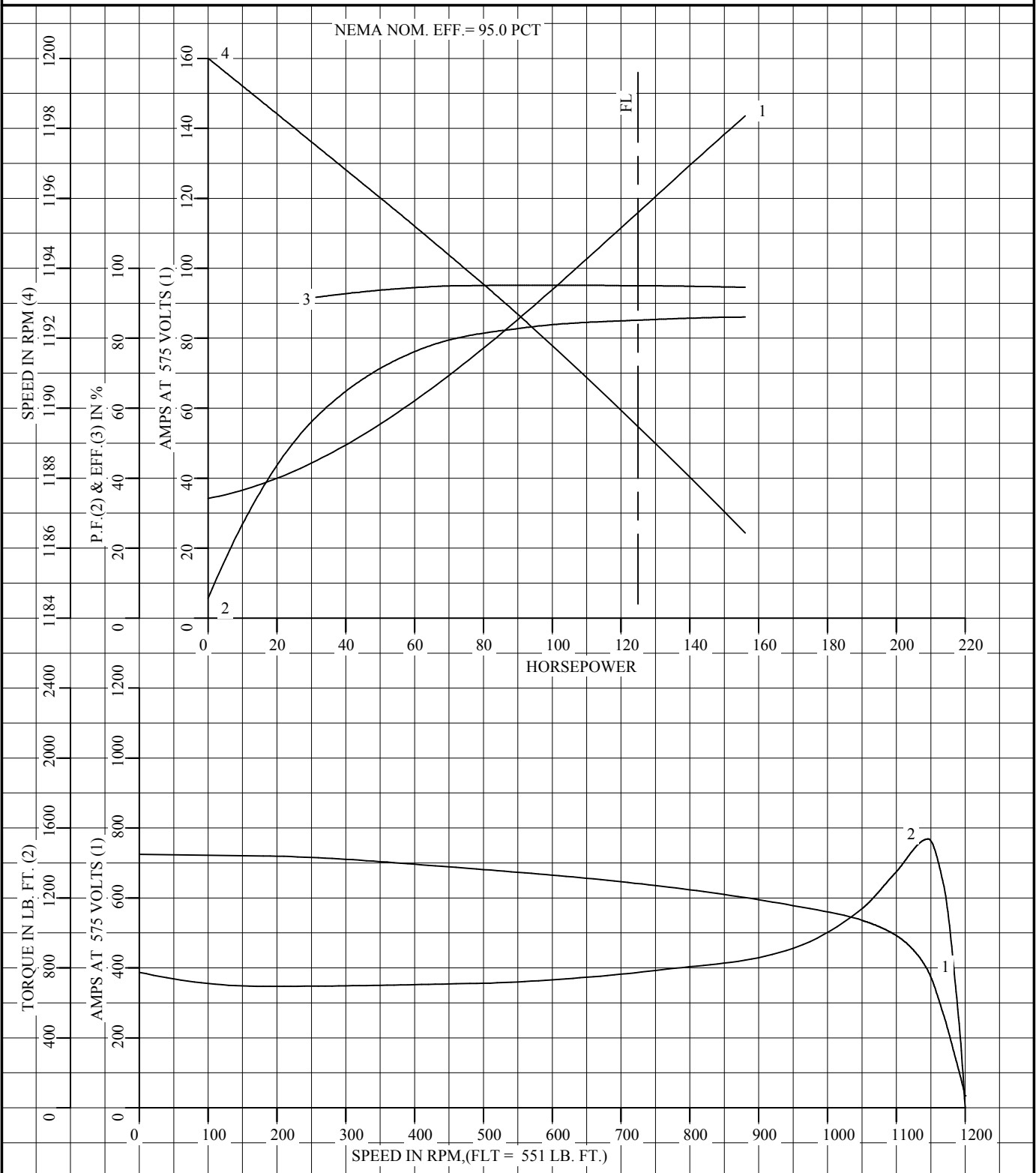
 STATOR RES. @ 25 °C **.0639**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

E/S ---

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

**BALDOR**  
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH  
CK. BY C. E. JAMISON  
APP. BY W. L. SMITH  
DATE 10/16/18

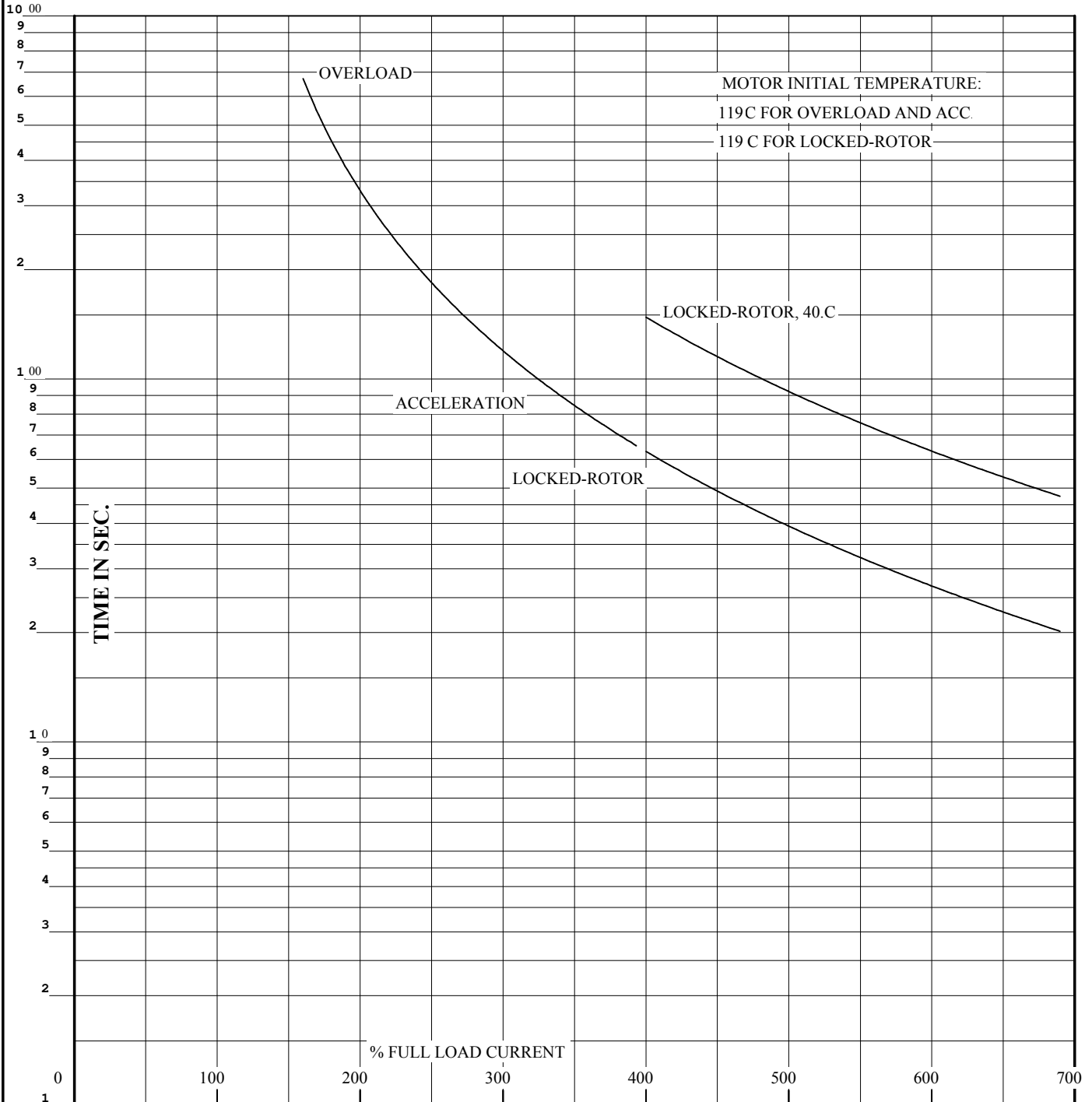
**A-C MOTOR  
PERFORMANCE  
CURVES**

**A44WG2122-R012**

ISSUE DATE 05/05/21

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|                         |                          |                       |                                  |
|-------------------------|--------------------------|-----------------------|----------------------------------|
| REL. S.O.               | RPM <b>1190</b>          | S.F. <b>1.15</b>      | ROTOR <b>418143080GE</b>         |
| FRAME <b>445T</b>       | VOLTS <b>575</b>         | NEMA DESIGN <b>B</b>  | TEST S.O. <b>TYPICAL DATA</b>    |
| HP <b>125</b>           | AMPS <b>116</b>          | CODE LETTER <b>G</b>  | TEST DATE <b>---</b>             |
| TYPE <b>P</b>           | DUTY <b>CONT</b>         | ENCLOSURE <b>TEFC</b> | STATOR RES. @ 25 °C <b>.0639</b> |
| PHASE/HERTZ <b>3/60</b> | AMB °C/INSUL <b>40/F</b> | E/S <b>-</b>          | OHMS (BETWEEN LINES)             |



THERMAL LIMIT CURVE

REMARKS: NEMA NOM. EFF.= 95.0 PCT

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



|         |             |
|---------|-------------|
| DR. BY  | W. L. SMITH |
| CK. BY  | C.E.JAMISON |
| APP. BY | W. L. SMITH |
| DATE    | 10/16/18    |

**A-C MOTOR  
PERFORMANCE  
CURVES**

**A44WG2122-R012**  
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## 617435-945

ENCLOSURE ENHANCEMENT: SEVERE DUTY

G445T STD TEFC F1 FOOTED – CAST IRON C/BOX

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