

ABB BALDOR RELIANCE III

Customer information packet

ECP44252T-4

250HP, 3570RPM, 3PH, 60HZ, 449TS, A44112M, TEF

Class - CLI GP A,B,C,D

Division - Division II

Specifications

| | |
|--------------------------------------|-------------------------|
| Enclosure | TEFC |
| Frame | 449TS |
| Frame Material | Iron |
| Frequency | 60.00 Hz |
| Haz Area Class and Group | CLI GP A,B,C,D |
| Haz Area Division | Division II |
| Motor Letter Type | Three Phase |
| Output @ Frequency | 250.000 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 3600 RPM @ 60 HZ |
| Voltage @ Frequency | 460.0 V @ 60 HZ |
| Agency Approvals | CCSAUSEEV |
| Ambient Temperature | 40 °C |
| Auxiliary Box | NO AUXILLARY BOX |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Constant Torque Speed Range | 30-60 |
| Current @ Voltage | 269.000 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 95.8 % |
| Enclosure Modification | Severe Duty Features |
| Feedback Device | NO FEEDBACK |
| Haz Area Temp Code | T2C |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 269.0 a |
| Insulation Class | F |
| Inverter Code | Inverter Ready |
| KVA Code | G |
| Lifting Lugs | No Lifting Lugs |
| Motor Lead Quantity/Wire Size | 6 @ 2/0 AWG |

Part Detail

| | |
|---------------------|----------------------|
| Revision | S |
| Type | AC |
| Mech. spec. | |
| Base | |
| Status | PRD/A |
| Elec. spec. | A44WG1559 |
| Layout | 617427-006 |
| Eff. date | 12-17-2025 |
| CD Diagram | 416820-036 |
| Poles | 02 |
| Leads | 3#2/0 (02 per group) |
| Proprietary | False |
| Created date | 08-16-2012 |

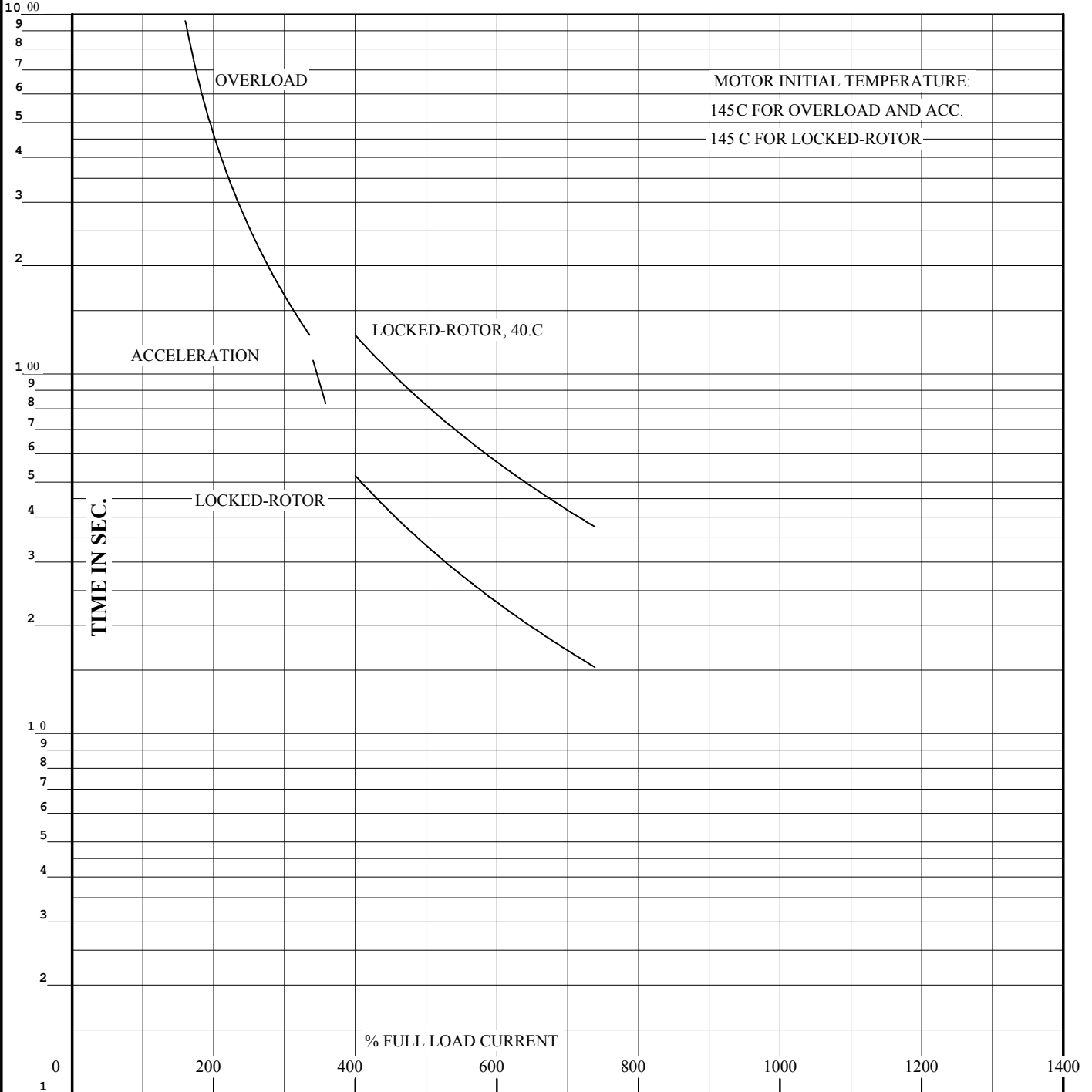
| | |
|---------------------------------|---------------------------|
| Motor Standards | NEMA |
| Motor Type | A44112M |
| Mounting Arrangement | F1 |
| Number of Poles | 2 |
| Overall Length | 49.71 IN |
| Power Factor | 90 |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | Standard |
| Service Factor | 1.15 |
| Shaft Diameter | 2.375 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No Slinger |
| Speed | 3570 rpm |
| Speed Code | Single Speed |
| Starting Method | Direct on line |
| Thermal Device - Bearing | None |
| Thermal Device - Winding | None |

Nameplate

NP3238

| | | | | | | | | | |
|---------------------------|-------------|------------------------|----------|------------------------------|------|---------------|------|--------------------|------|
| CAT NO | ECP44252T-4 | SPEC NO. | P44G3950 | | | | | | |
| HP | 250 | AMPS | 269 | VOLTS | 460 | DESIGN | B | | |
| FRAME | 449TS | RPM | 3570 | HZ | 60 | AMB | 40 | SF | 1.15 |
| D.E. BRG.DATA | 6313 | O.D.E. BRG.DATA | 6313 | PH | 3 | DUTY | CONT | INSUL.CLASS | F |
| D.E. BRG. | 65BC03J30X | TYPE | P | ENCL | TEFC | CODE | G | | |
| O.D.E. BRG. | 65BC03J30X | POWER FACTOR | 90 | NEMA NOM EFFICIENCY | 95.8 | | | | |
| 3/4 LOAD EFF. | 96.3 | MAX CORR KVAR | 28.0 | GUARANTEED EFFICIENCY | 95.4 | | | | |
| TEMP CODE | T2C | TEMP = | 230 | | | | | | |
| CHP HZ | 60-75 | CT HZ | 30-60 | VT HZ | 0-60 | | | | |
| INVERTER-TEMP-CODE | T2C | | | | | | | | |
| SER.NO. | | MOTOR WEIGHT | | | | | | | |

| | | | |
|-------------------------|--------------------------|-----------------------|----------------------------------|
| REL. S.O. | RPM 3570 | S.F. 1.15 | ROTOR 418138004LE |
| FRAME 449TS | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| HP 250 | AMPS 269 | CODE LETTER G | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES. @ 25 °C .0115 |
| PHASE/HERTZ 3/60 | AMB °C/INSUL 40/F | E/S 833154 | OHMS (BETWEEN LINES) |



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 PCT.

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



| | |
|---------|--------------|
| DR. BY | W. L. SMITH |
| CK. BY | J.J.HARRISON |
| APP. BY | W. L. SMITH |
| DATE | 04/07/10 |

**A-C MOTOR
PERFORMANCE CURVES** **A44WG1559-R001**
ISSUE DATE 03/04/2014

| | | | | | | |
|--------------|-------------|-------------------|--------------|--|----------------|-------|
| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
| | 449TS | 250 | P | 3/60 | 3570 | 460 |
| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
| 269 | CONT | 40/F | 1.15 | B | G | TEFC |
| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES. @25 °C OHMS (BETWEEN LINES) | | |
| 833154 | 418138004LE | --- | --- | .0115 | | |

PERFORMANCE

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---------|------|---------|------|-------------------|-----------------|
| NO LOAD | 0 | 53.0 | 3600 | 6.73 | 0 |
| 1/4 | 62.5 | 94.2 | 3593 | 66.3 | 93.7 |
| 2/4 | 125 | 146 | 3586 | 83.6 | 95.9 |
| 3/4 | 187 | 206 | 3578 | 88.7 | 96.3 |
| 4/4 | 250 | 269 | 3571 | 90.4 | 96.2 |
| 5/4 | 312 | 336 | 3562 | 90.7 | 95.8 |

SPEED TORQUE

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|--------------|------|-----------------------|-------------------|---------|
| LOCKED ROTOR | 0 | 154 | 564 | 1806 |
| PULL UP | 288 | 125 | 458 | 1663 |
| BREAKDOWN | 3464 | 279 | 1024 | 903 |
| FULL LOAD | 3571 | 100 | 367 | 269 |

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

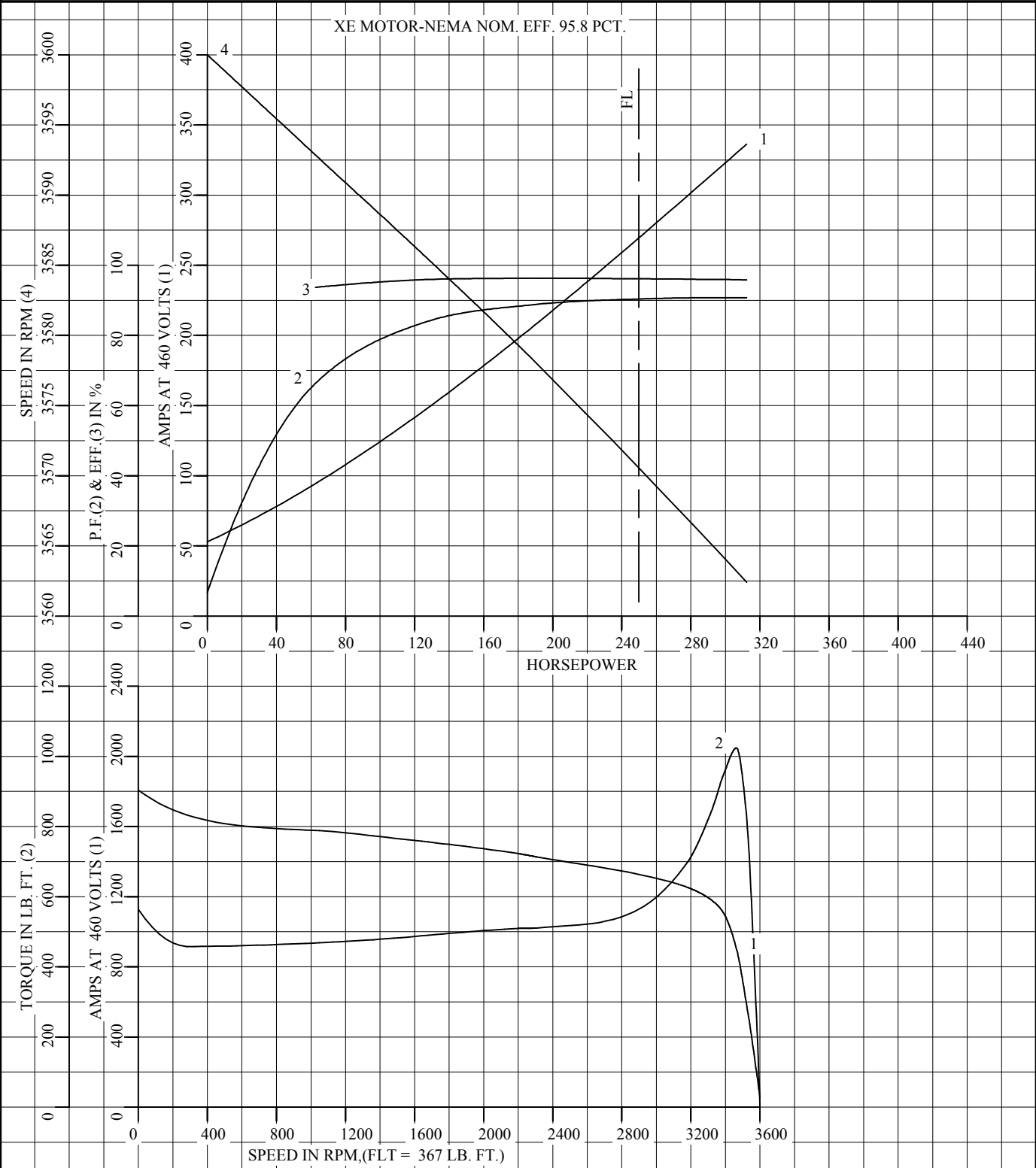
REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 95.8 PCT.



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| HP 250 | AMPS 269 | CODE LETTER G | TEST DATE --- |
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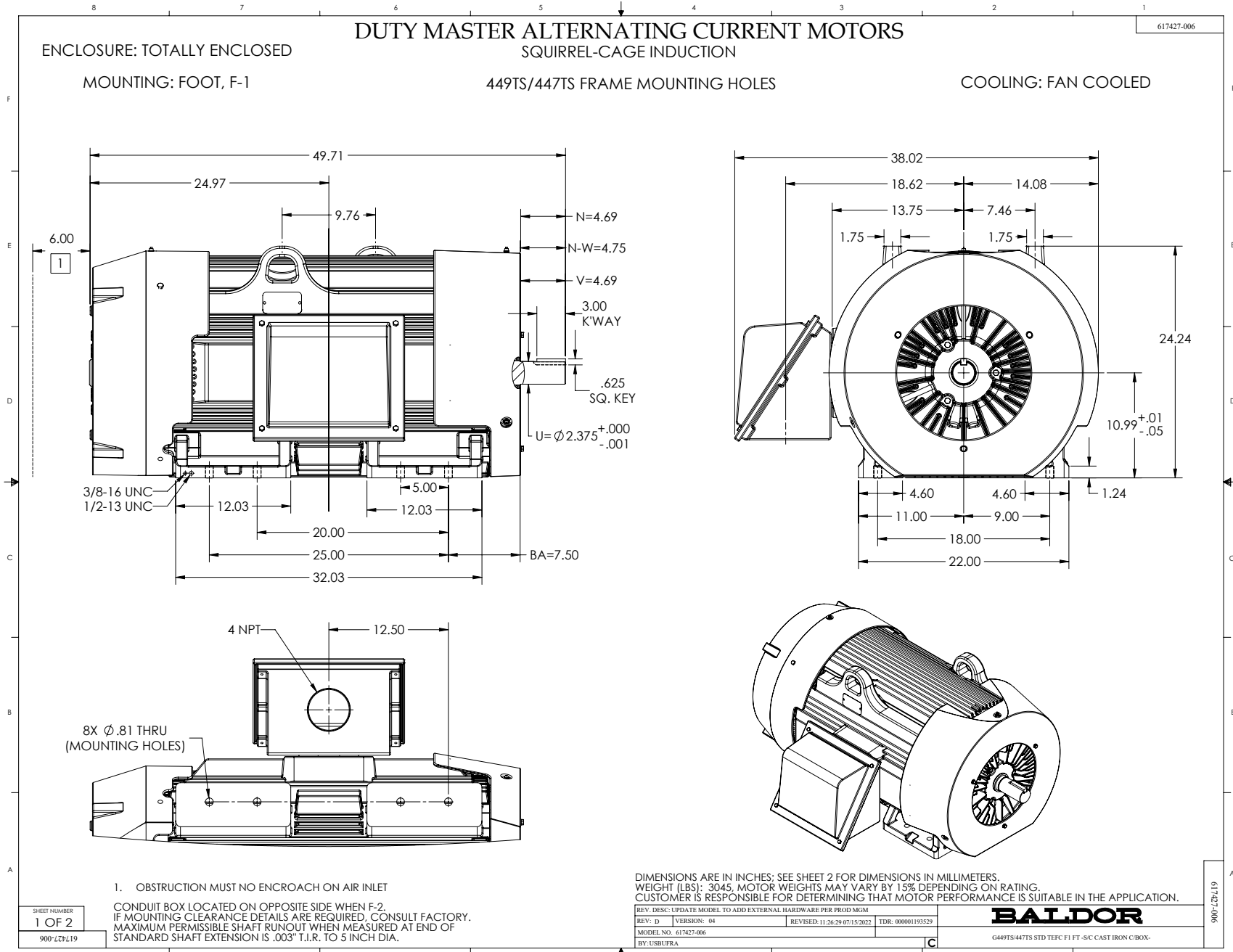


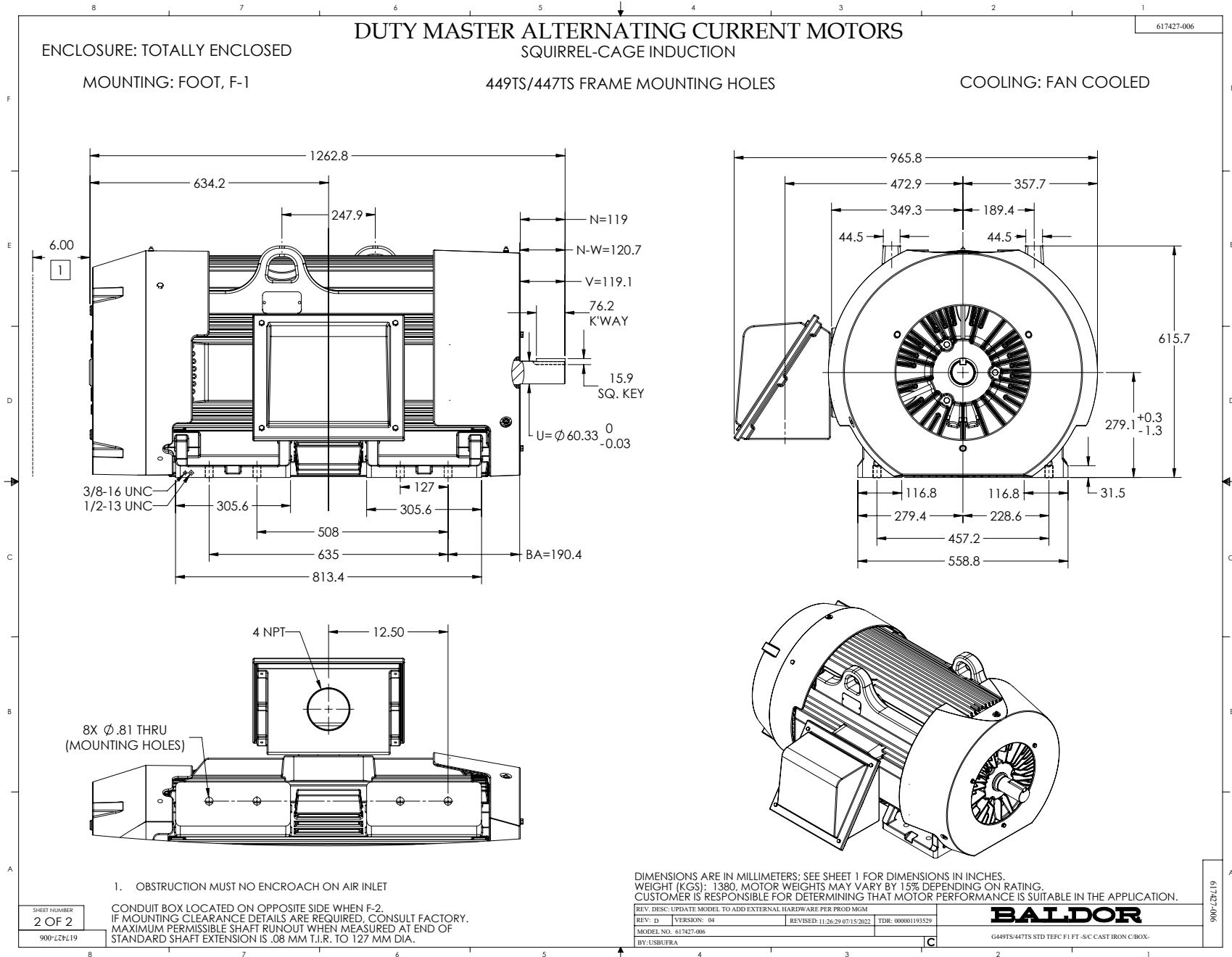
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**A-C MOTOR
PERFORMANCE
CURVES** **A44WG1559-R001**
 ISSUE DATE **03/04/2014**





416820-036

**A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED**



(N.P. 1575-BA)

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

416820-036