ABB BALDOR RELIANCE

# Customer information packet

## EM4406T-4

150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/10/2026 1:45:35 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 445T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 150.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | CCSAUSEEV |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Current @ Voltage** | 169.000 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 95.8 % |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 169.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | F |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 6 @ 2 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A4488M |

## Part Detail

| | |
|---|---|
| **Revision** | P |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A44WG3783 |
| **Layout** | 617427-476 |
| **Eff. date** | 09-25-2025 |
| **CD Diagram** | 416820-008 |
| **Poles** | 04 |
| **Leads** | 6#2 |
| **Proprietary** | False |
| **Created date** | 08-10-2012 |

| | |
|---|---|
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 44.75 IN |
| **Power Factor** | 86 |
| **Product Family** | Other |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 3.375 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1785 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Wye Start - Delta Run |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

| NP2349L | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPEC NO.** | P44G3907 | **CAT.NO.** | EM4406T-4 | | | | | | | **FRAME** | 445T | |
| **HP** | 150 | **VOLTS** | 460 | **PHASE** | 3 | **DESIGN** | B | **TYPE** | P | | | |
| **RPM** | 1785 | **AMPS** | 169 | **HZ** | 60 | **AMB** | 40 | **SF** | 1.15 | | | |
| **DRIVE END BEARING** | 90BC03J30X | **DUTY** | CONT | **INSUL.CLASS** | F | | | | | | | |
| **OPP D.E. BEARING** | 90BC03J30X | **ENCL** | TEFC | **CODE** | F | | | | | | | |
| **SER.NO.** | | **POWER FACTOR** | 86 | | | | | | | **NEMA-NOM-EFFICIENCY** | 95.8 | |
| | | | | | | **MAX CORR KVAR** | 30.0 | | | **GUARANTEED EFFICIENCY** | 95.0 | |
| | | | | | | | | **NEMA NOM/CSA QUOTED EFF** | | | | |
| | | | | | | | | | | **MOTOR WEIGHT** | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 089490106A | G28 C-FACE BRKT MACH-6318 089490105WCA | P1 |

| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 445VP | 150 | P | 3/60 | 1785 | 460 |

| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
|---|---|---|---|---|---|---|
| 169 | CONT | 40/F | 1.15 | B | F | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES.@25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 498865 | 418143053AE | --- | --- | .0298 |

**PERFORMANCE**

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 48.9 | 1800 | 4.26 | 0 |
| 1/4 | 37.6 | 69.1 | 1796 | 54.4 | 93.6 |
| 2/4 | 75.0 | 96.9 | 1792 | 75.7 | 95.7 |
| 3/4 | 112 | 131 | 1788 | 83.6 | 96.0 |
| 4/4 | 150 | 169 | 1784 | 86.8 | 95.8 |
| 5/4 | 188 | 210 | 1779 | 87.9 | 95.3 |
| | | | | | |

**SPEED TORQUE**

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 130 | 572 | 1041 |
| PULL UP | 270 | 116 | 511 | 1020 |
| BREAKDOWN | 1729 | 280 | 1237 | 579 |
| FULL LOAD | 1784 | 100 | 442 | 169 |

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

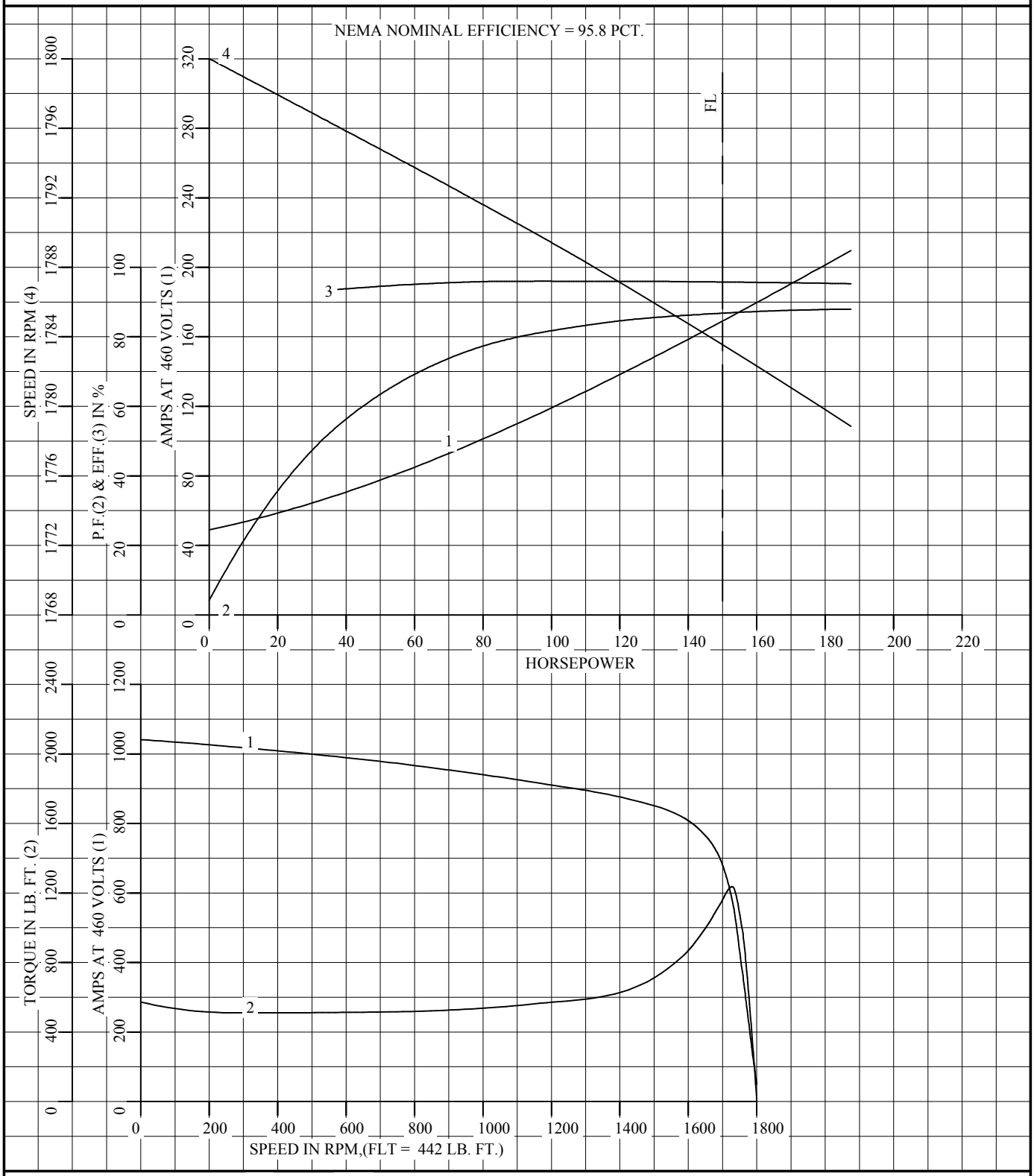
REMARKS: TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY CD
CK. BY CD
APP. BY T. KELATI
DATE 1/18/11

**A-C MOTOR PERFORMANCE DATA** A44WG3783-R001
ISSUE DATE 09/27/19

| | | | |
|---|---|---|---|
| REL S.O. | RPM 1785 | S.F. 1.15 | ROTOR 418143053AE |
| FRAME 445VP | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| HP 150 | AMPS 169 | CODE LETTER F | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 °C .0298 |
| PHASE/HERTZ 3/60 | AMB °C/INSUL 40/F | E/S 498865 | OHMS (BETWEEN LINES) |




AMPERES SHOWN FOR 460 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 | CD |
| CK. BY | CD |
| APP. BY | T. KELATI |
| DATE | 1/18/11 |

A-C MOTOR PERFORMANCE CURVES

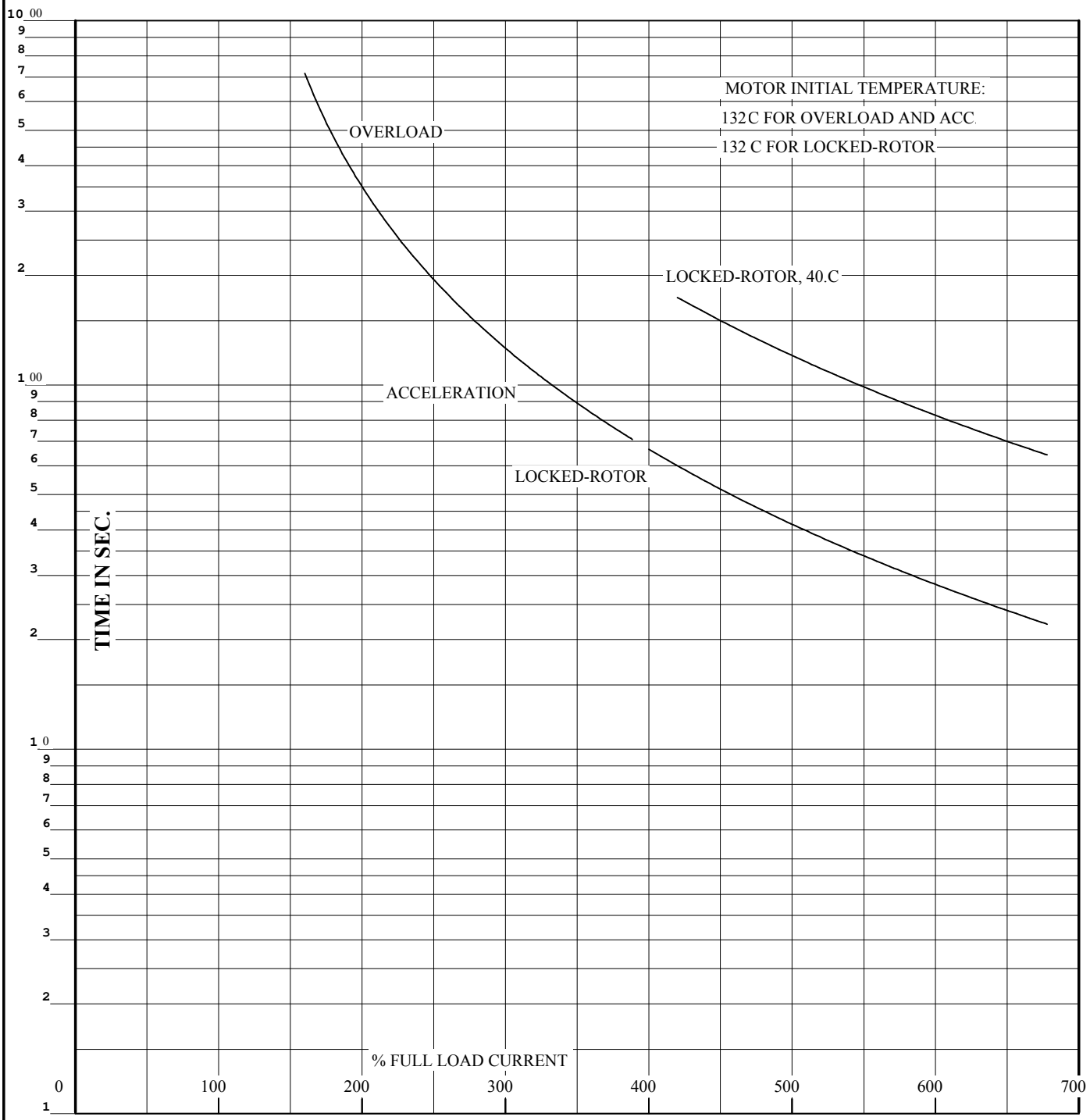
A44WG3783-R001

ISSUE DATE 09/27/19



Printed on 9/27/19 14:03 @ bengap01.baldor.com

| | | | |
|---|---|---|---|
| REL. S.O. | RPM 1785 | S.F. 1.15 | ROTOR 418143053AE |
| FRAME 445VP | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| HP 150 | AMPS 169 | CODE LETTER F | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 ℃.0298 |
| PHASE/HERTZ 3/60 | AMB ℃/INSUL 40/F | E/S 498865 | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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

617427-476

# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

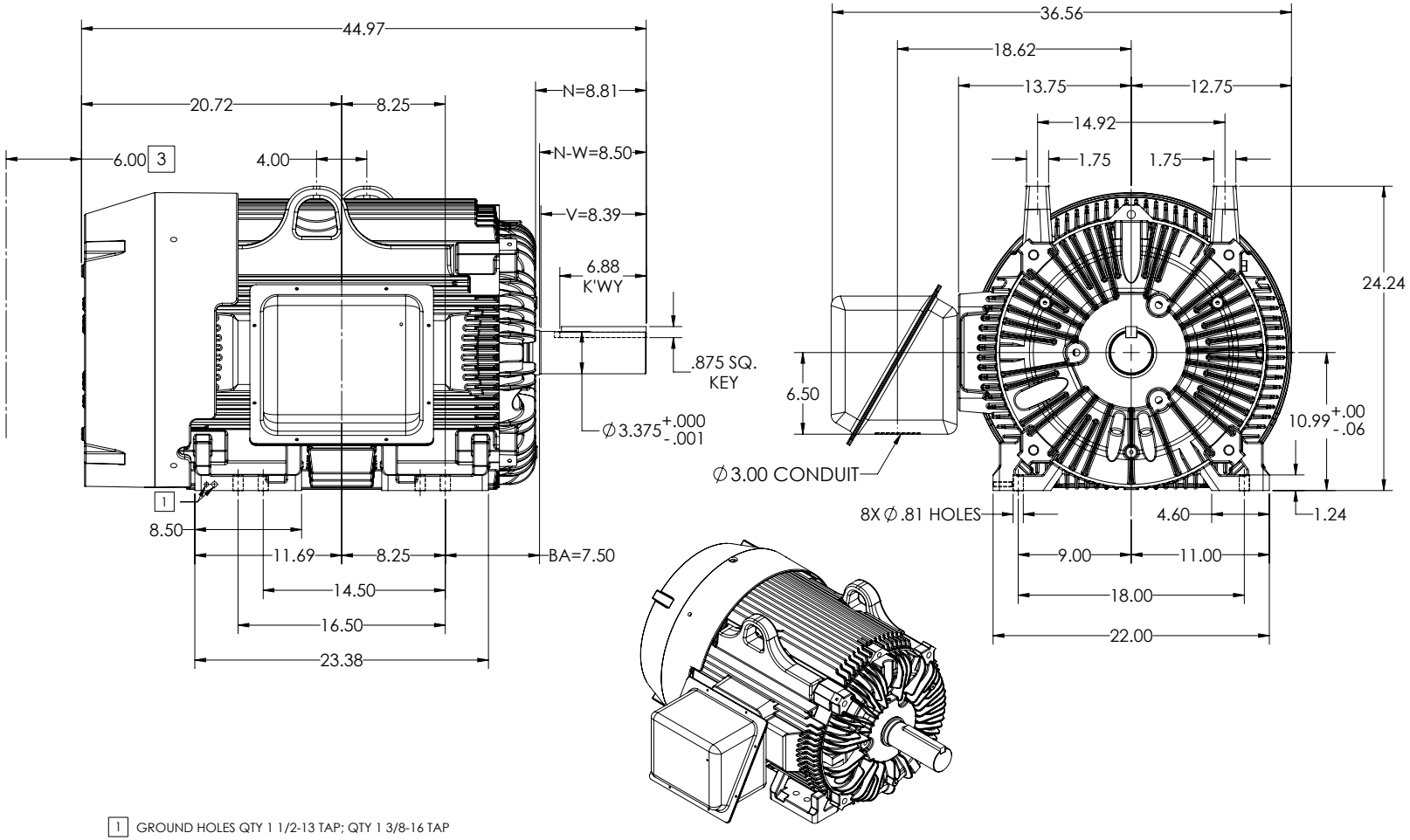
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

FRAME G444T
INCLUDES G445T FRAME MOUNTING HOLES

STEEL MAIN CONDUIT BOX

COOLING: FAN COOLED




1 GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP

2 MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.

3 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

2 WEIGHT (LBS): 2130

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

617427-476

| | | | |
|---|---|---|---|
| REV. DESC: NEW DRAWING | | | |
| REV: - | VERSION: 00 | REVISED: 10:03:28 04/18/2015 | TDR: 000000919063 |
| MODEL NO. 617427-476 | | | REF: |
| BY: RAGRA | Material: | | C |

BALDOR

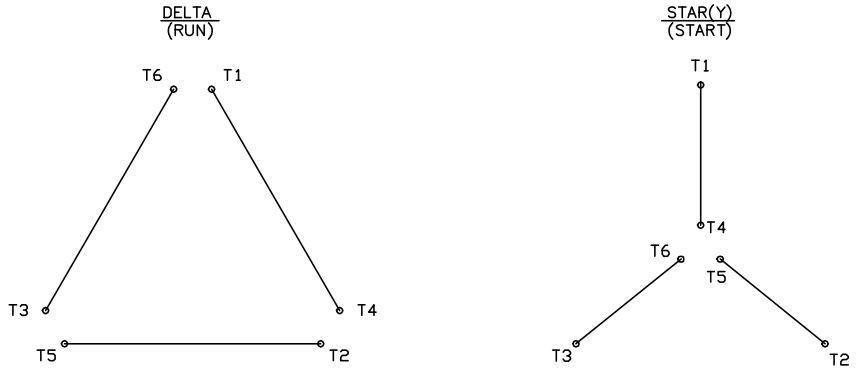
G445T/444T TEFC FT - SD/CNTR - STEEL C/BOX

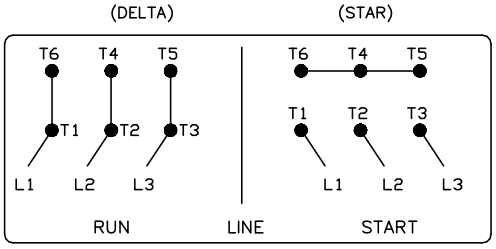
617427-476

416820–008

# A–C MOTOR
# CONNECTION DIAGRAM

## STANDARD 6 LEAD Y START – DELTA RUN




(N. P. 1767-DC)

| | | |
|---|---|---|
| REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM | | |
| REV. LTR: D | VERSION: 04 | TDR: 000000847713 |
| FILE: \RAG\00001\808 | REVISED: 10:41:26 04/08/2014 | BY: RAGJSS1 |
| MTL: – | | |

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

416820–008