ABB BALDOR RELIANCE

# Customer information packet

## EFM4409T-4

100HP, 1190RPM, 3PH, 60HZ, 444T, TEFC, F2
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 444T |
| **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** | 100.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 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** | 119.000 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 95.0 % |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 119.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | G |
| **Lifting Lugs** | No Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 3 @ 2 AWG |
| **Motor Standards** | NEMA |

## Part Detail

| | |
|---|---|
| **Revision** | L |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A44WG3905 |
| **Layout** | 617427-007 |
| **Eff. date** | 09-25-2025 |
| **CD Diagram** | 416820-036 |
| **Poles** | 06 |
| **Leads** | 3#2 |
| **Proprietary** | False |
| **Created date** | 06-07-2014 |

| | |
|---|---|
| **Motor Type** | A44064M |
| **Mounting Arrangement** | F2 |
| **Number of Poles** | 6 |
| **Overall Length** | 44.75 IN |
| **Power Factor** | 82 |
| **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** | Shaft Slinger |
| **Speed** | 1190 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

| NP2349L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPEC NO.** | A44-5899-3905 | **CAT.NO.** | EFM4409T-4 | | | | | **FRAME** | 444T | | |
| **HP** | 100 | **VOLTS** | 460 | **PHASE** | 3 | **DESIGN** | B | **TYPE** | P | | |
| **RPM** | 1190 | **AMPS** | 119 | **HZ** | 60 | **AMB** | 40 | **SF** | 1.15 | | |
| **DRIVE END BEARING** | 90BC03J30X | **DUTY** | CONT | **INSUL.CLASS** | F | | | | | | |
| **OPP D.E. BEARING** | 90BC03J30X | **ENCL** | TEFC | **CODE** | G | | | | | | |
| **SER.NO.** | | **POWER FACTOR** | 82 | | | **NEMA-NOM-EFFICIENCY** | 95 | | | | |
| | | | | | | **MAX CORR KVAR** | 27 | **GUARANTEED EFFICIENCY** | 94.1 | | |
| | | | | | | **NEMA NOM/CSA QUOTED EFF** | | | | | |
| | | | | | | | | **MOTOR WEIGHT** | | | |

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

| S/O | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 444T | 100 | P | 3/60 | 1190 | 460 |

| AMPS | DUTY | AMB °C/ INSUL | S.F. | NEMA DESIGN | CODE LETTER | ENCLOSURE |
|---|---|---|---|---|---|---|
| 119 | CONT | 40/F | 1.15 | B | G | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES. @25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 497780 | 418143098VE | --- | --- | .0547 |

**PERFORMANCE**

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 39.9 | 1200 | 4.01 | 0 |
| 1/4 | 25.0 | 55.8 | 1197 | 45.5 | 92.5 |
| 2/4 | 50.0 | 72.5 | 1194 | 68.0 | 95.0 |
| 3/4 | 75.0 | 94.3 | 1191 | 78.0 | 95.3 |
| 4/4 | 100 | 119 | 1188 | 82.5 | 95.0 |
| 5/4 | 125 | 147 | 1184 | 84.3 | 94.4 |
| | | | | | |

**SPEED TORQUE**

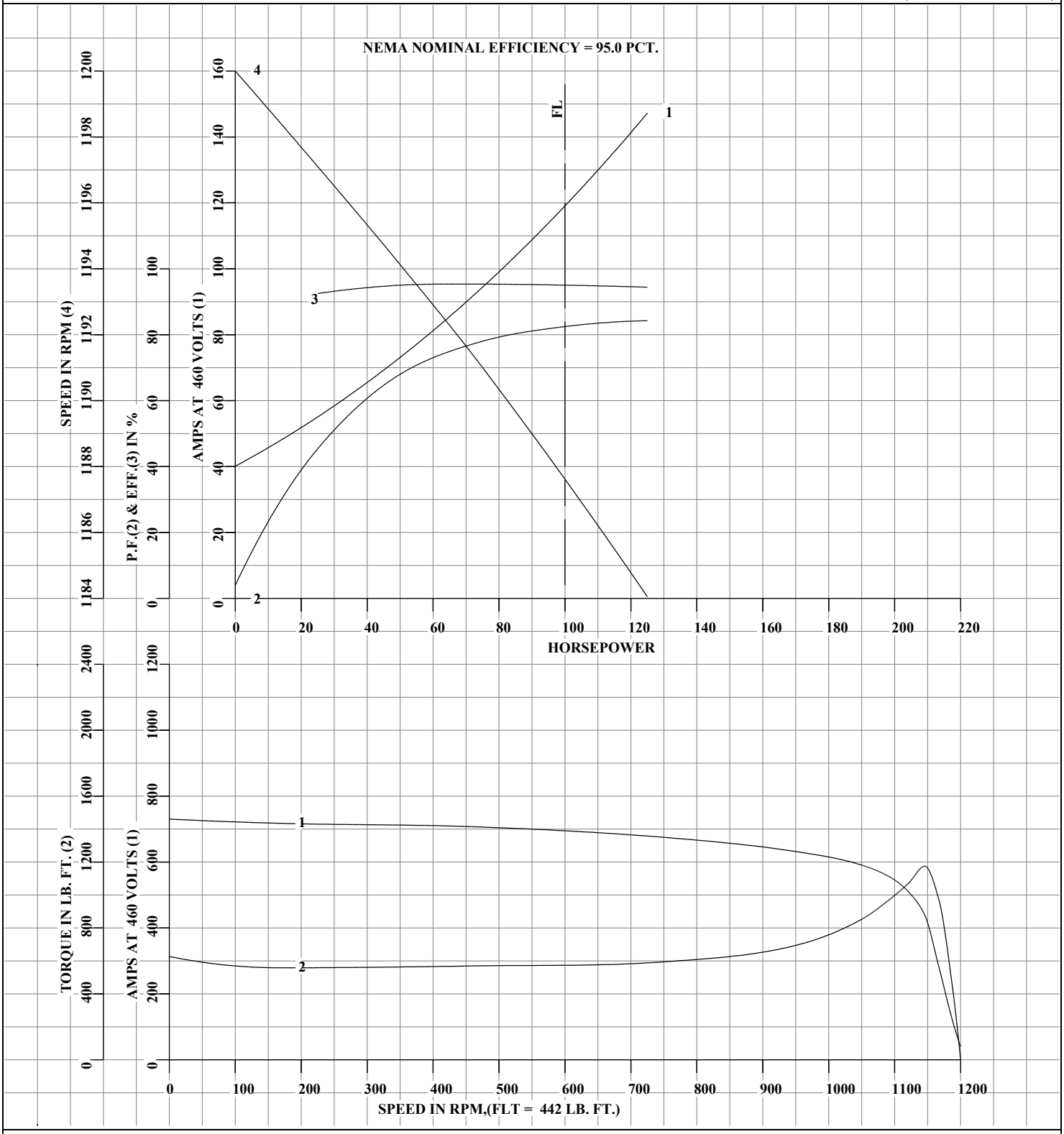
| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 142 | 627 | 730 |
| PULL UP | 168 | 126 | 558 | 717 |
| BREAKDOWN | 1146 | 266 | 1175 | 438 |
| FULL LOAD | 1188 | 100 | 442 | 119 |

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

**TYPICAL DATA**
**NEMA NOMINAL EFFICIENCY = 95.0 PCT.**

| | | | |
|---|---|---|---|
| ABB | DRAWN BY: W. L. SMITH<br>CHECKED BY: J.J.HARRISON<br>APPROVED BY: W. L. SMITH<br>DATE: 12/06/10 | AC MOTOR PERFORMANCE DATA | A44WG3905-R001<br>DATE ISSUED 08/09/19 |

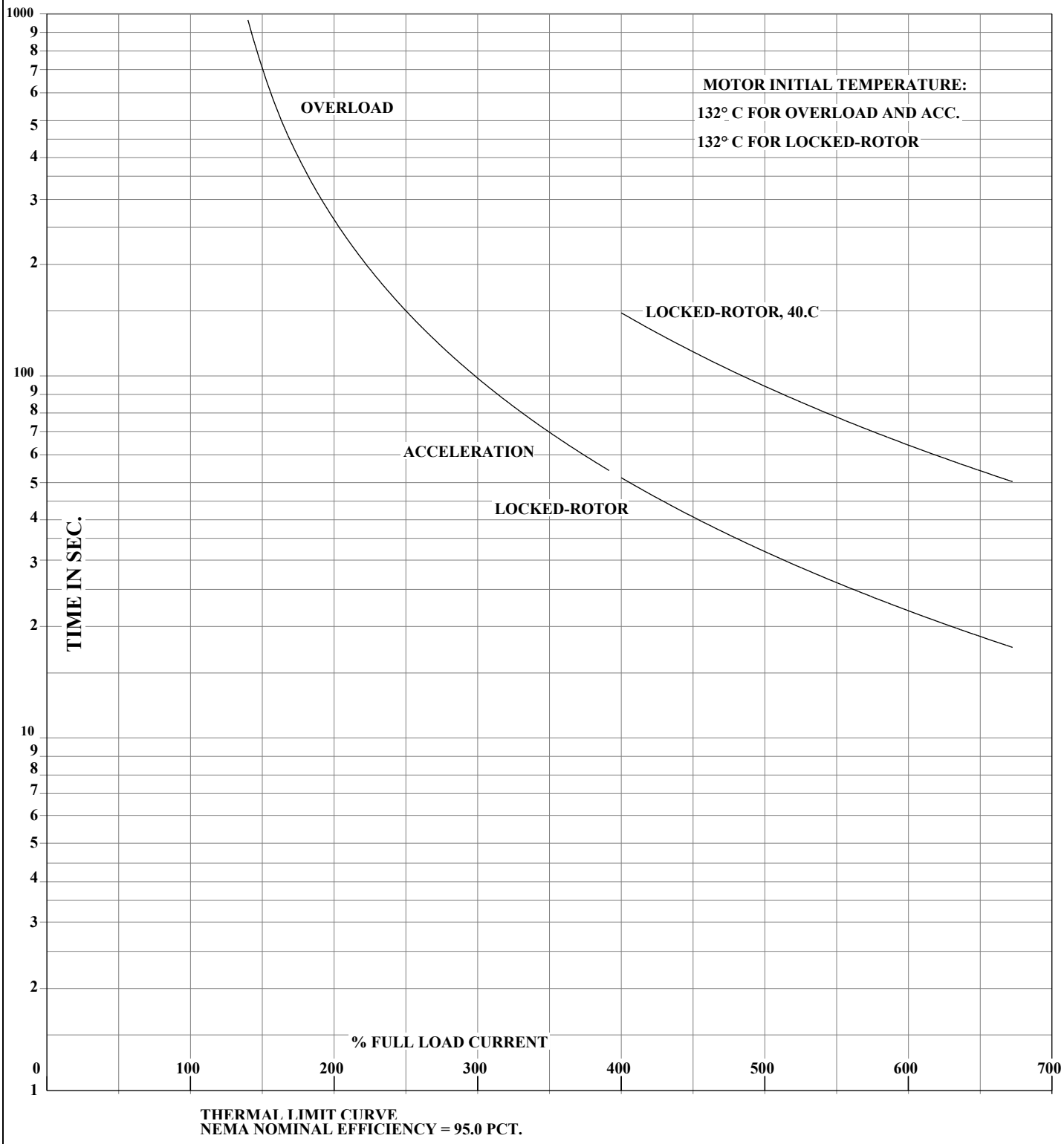
| | | | |
|---|---|---|---|
| FRAME 444T | RPM 1190 | S.F. 1.15 | ROTOR 418143098VE |
| HP 100 | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| TYPE P | AMPS 119 | CODE LETTER G | TEST DATE --- |
| PHASE / HERTZ 3/60 | DUTY CONT | ENCLOSURE TEFC | STATOR RES. @ 25°C .0547 |
| | AMB °C / INSUL 40/F | E/S 497780 | OHMS (BETWEEN LINES) |




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

| | | | |
|---|---|---|---|
| ABB | DRAWN BY: W. L. SMITH<br>CHECKED BY: J.J.HARRISON<br>APPROVED BY: W. L. SMITH<br>DATE: 12/06/10 | AC MOTOR PERFORMANCE DATA | A44WG3905-R001<br>ISSUE DATE 08/09/19 |

| | | | |
|---|---|---|---|
| FRAME 444T | RPM 1190 | S.F. 1.15 | ROTOR 418143098VE |
| HP 100 | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| TYPE P | AMPS 119 | CODE LETTER G | TEST DATE --- |
| PHASE / HERTZ 3/60 | DUTY CONT | ENCLOSURE TEFC | STATOR RES. @ 25°C .0547 |
| | AMB °C / INSUL 40/F | E/S 497780 | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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

| | | | |
|---|---|---|---|
| ABB | DRAWN BY: W. L. SMITH<br>CHECKED BY: J.J.HARRISON<br>APPROVED BY: W. L. SMITH<br>DATE: 12/06/10 | AC MOTOR PERFORMANCE DATA | A44WG3905-R001<br>ISSUE DATE 08/09/19 |

617427-007

# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

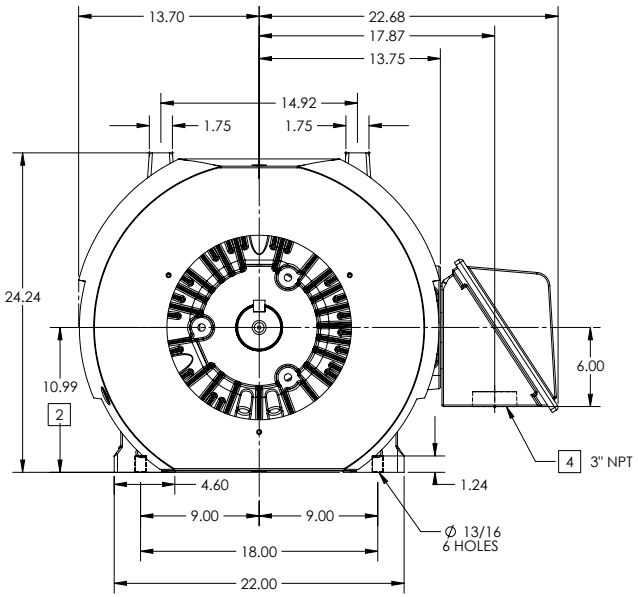
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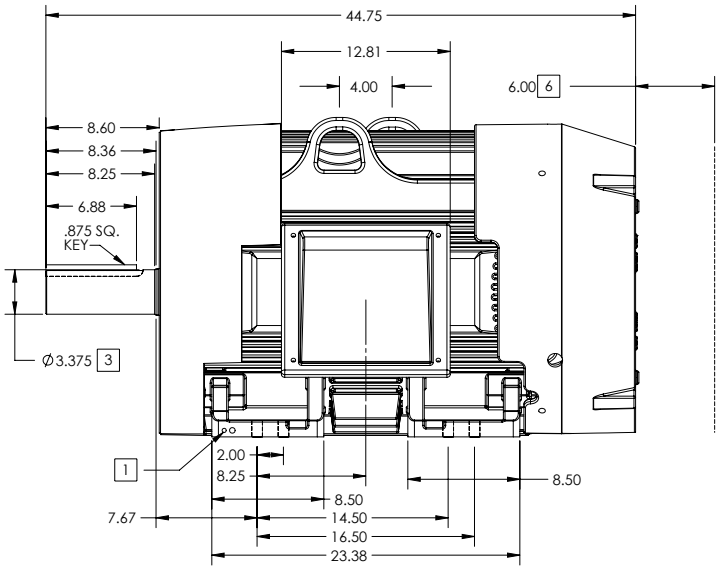
FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES




1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
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.

5 WEIGHT (LBS): 2150

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

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

SHEET NUMBER 1 OF 2

617427-007

| | | | |
|---|---|---|---|
| REV. DESC: INITIAL RELEASE | | | |
| REV: - | VERSION: 00 | REVISED: 11:00:02 09/12/2012 | TDR: 000000760644 |
| MODEL NO. 617427-007 | | | REF: |
| BY: RAGTBM | Material: | | C |

BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C/B - F2 MOUNT

617427-007

617427-007

# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

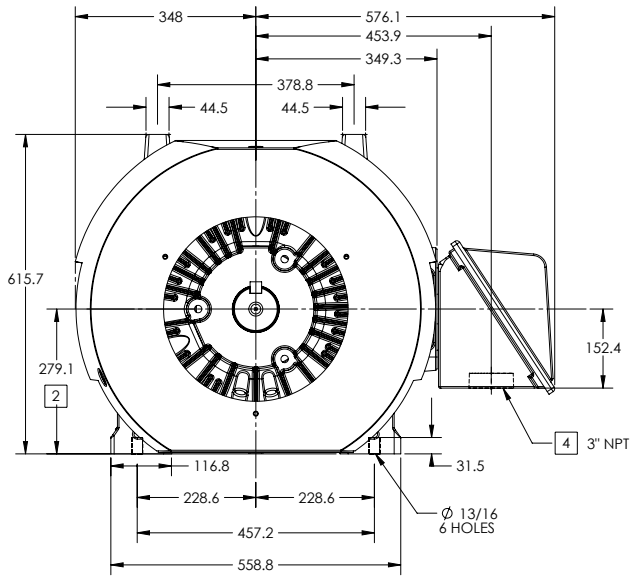
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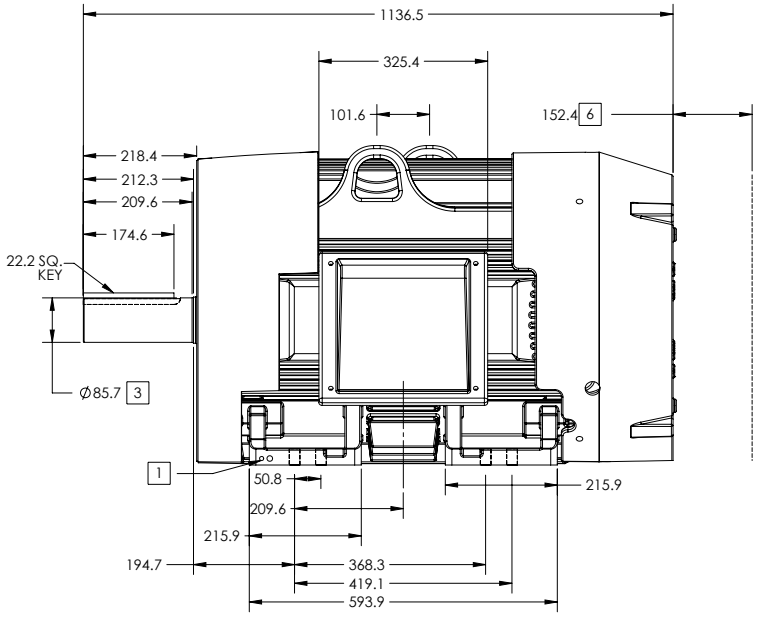
FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES




1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
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.

5 WEIGHT (KGS): 975

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 2 FOR DIMENSIONS IN INCHES

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

SHEET NUMBER 2 OF 2

617427-007

| | | | |
|---|---|---|---|
| REV. DESC: INITIAL RELEASE | | | |
| REV: - | VERSION: 00 | REVISED: 11:00:02 09/12/2012 | TDR: 000000760644 |
| MODEL NO. 617427-007 | | | REF: |
| BY: RAGTBM | Material: | | C |

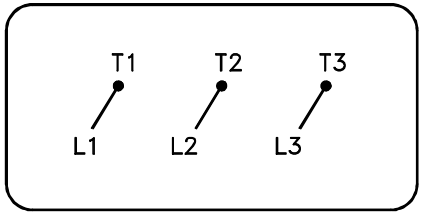
BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C/B - F2 MOUNT

617427-007

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 | | | BALDOR |
| REV. LTR: – | VERSION: 00 | TDR: 000000538207 | |
| FILE: \MGA\00000\682 | | REVISED: 11:54:06 04/30/2010 | CONN DIAG – STANDARD 3 LEAD |
| MTL: – | | BY: RAGRA | SH 1 of 1 |