ABB BALDOR RELIANCE

# Customer information packet

## OF4404T

75HP, 1130RPM, 3PH, 60HZ, 444T, A4488M, TEFC, F
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** | 75.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 796.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | CCSA US |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Current @ Voltage** | 51.500 A @ 796.0 V |
| | 89.200 A @ 460.0 V |
| **Design Code** | D |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 88.5 % |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 51.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 6 @ 4 AWG |

## Part Detail

| | |
|---|---|
| **Revision** | K |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | INA/A |
| **Elec. spec.** | A44WG3741 |
| **Layout** | 617427-007 |
| **Eff. date** | 02-05-2019 |
| **CD Diagram** | 416820-004 |
| **Poles** | 06 |
| **Leads** | 6#4 |
| **Proprietary** | False |
| **Created date** | 08-21-2012 |

| | |
|---|---|
| **Motor Standards** | NEMA |
| **Motor Type** | A4488M |
| **Mounting Arrangement** | F2 |
| **Number of Poles** | 6 |
| **Overall Length** | 40.98 IN |
| **Power Factor** | 88 |
| **Product Family** | General Industrial |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1130 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | Drive End |
| **Thermal Device - Winding** | None |

**Nameplate**

| NP2531L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | | | | **SPEC NO.** | P44G3989 | | | | **FRAME** | 444T | |
| **HP** | 75 | **PHASE** | 3 | **DESIGN** | D | **TYPE** | P | | | | |
| **RPM** | 1130 | **HZ** | 60 | **AMB** | 40 | **SF** | 1.15 | | | | |
| **VOLTS** | 460/796 | **DUTY** | CONT | | | **INSUL.CLASS** | F | | | | |
| **AMPS** | 89.2/51.5 | **ENCL** | TEFC | **CODE** | G | | | | | | |
| **DRIVE END BEARING** | 90BC03J30X | | | | | **NEMA-NOM-EFFICIENCY** | 88.5 | | | | |
| **OPP D.E. BEARING** | 90BC03J30X | | | | | | | | | | |
| | | | | | | | | | | | |
| **SER.NO.** | | **MOTOR WEIGHT** | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 18-1302 | C-FACE KIT FOR T CONVERTS T TO TC | |
| 18EP1500A01SP | D-FLANGE KIT | |

| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 444T | 75 | P | 3/60 | 1130 | 460/796 |

| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
|---|---|---|---|---|---|---|
| 89.2/51.5 | CONT | 40/F | 1.15 | D | G | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES.@25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 497782 | 418143-69-DA | --- | --- | .0652/.195 |

**PERFORMANCE**

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 15.5 | 1200 | 8.64 | 0 |
| 1/4 | 18.8 | 19.8 | 1184 | 59.2 | 86.8 |
| 2/4 | 37.5 | 28.3 | 1168 | 79.4 | 90.4 |
| 3/4 | 56.2 | 38.9 | 1151 | 86.4 | 90.5 |
| 4/4 | 75.0 | 51.6 | 1132 | 87.9 | 89.4 |
| 5/4 | 93.7 | 65.5 | 1112 | 88.2 | 87.8 |
| | | | | | |

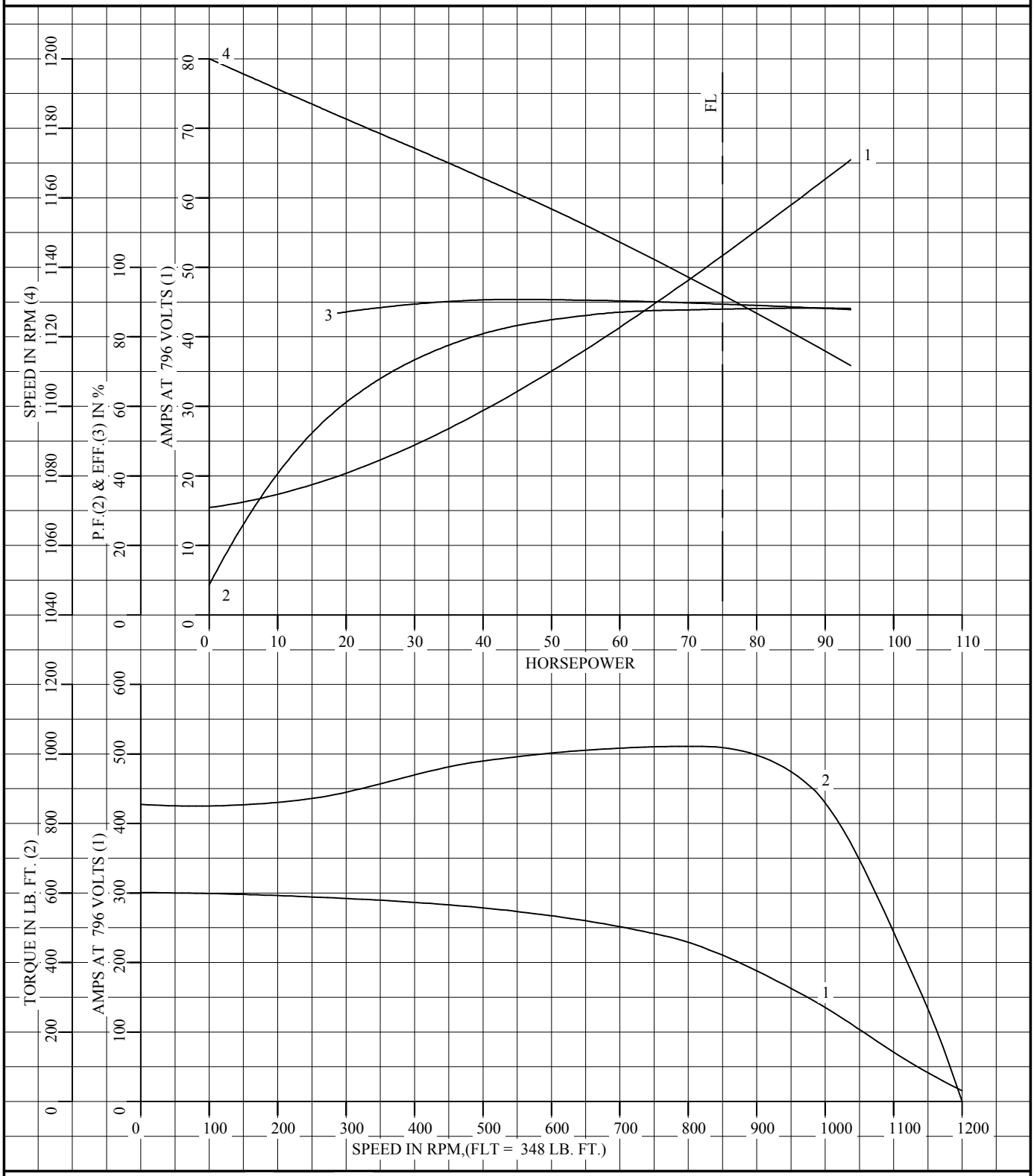
**SPEED TORQUE**

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 246 | 855 | 301 |
| PULL UP | 0 | 246 | 855 | 301 |
| BREAKDOWN | 810 | 294 | 1022 | 226 |
| FULL LOAD | 1132 | 100 | 348 | 51.6 |

AMPERES SHOWN FOR 796. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA

| | | | |
|---|---|---|---|
| REL S.O. | RPM 1130 | S.F. 1.15 | ROTOR 418143-69-DA |
| FRAME 444T | VOLTS 460/796 | NEMA DESIGN D | TEST S.O. TYPICAL DATA |
| HP 75 | AMPS 89.2/51.5 | CODE LETTER G | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 °C .0652/.195 |
| PHASE/HERTZ 3/60 | AMB °C/INSUL 40/F | E/S 497782 | OHMS (BETWEEN LINES) |




AMPERES SHOWN FOR 796 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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A MEMBER OF THE ABB GROUP

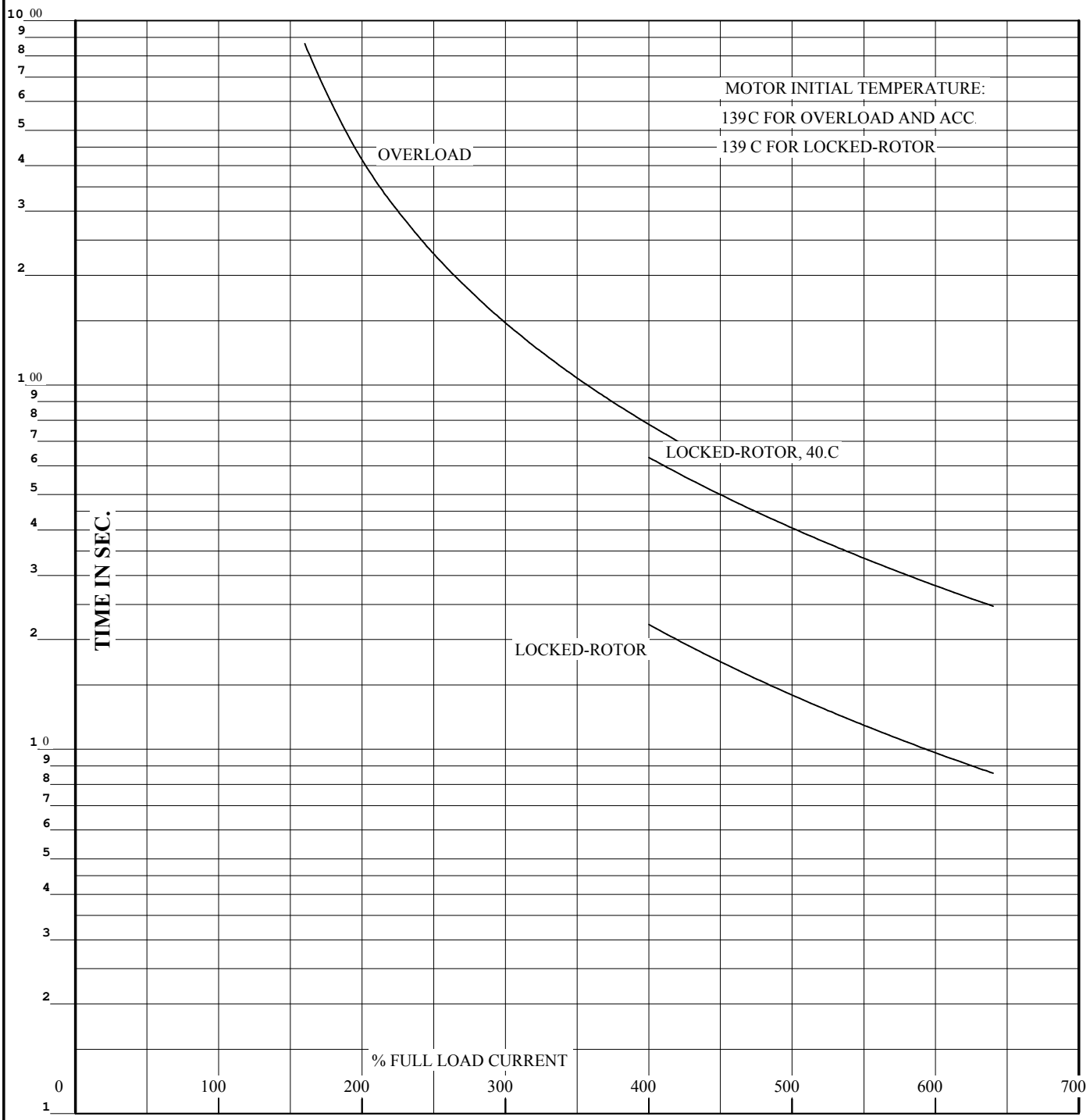
| | |
|---|---|
| DR. BY | B.R.PENDLEY |
| CK. BY | T. KELATI |
| APP. BY | T. KELATI |
| DATE | 09/26/11 |

A-C MOTOR PERFORMANCE CURVES

A44WG3741-R001

ISSUE DATE 03/08/21

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| REL. S.O. | | RPM | 1130 | S.F. | 1.15 | ROTOR | 418143-69-DA |
| FRAME | 444T | VOLTS | 460/796 | NEMA DESIGN | D | TEST S.O. | TYPICAL DATA |
| HP | 75 | AMPS | 89.2/51.5 | CODE LETTER | G | TEST DATE | --- |
| TYPE | P | DUTY | CONT | ENCLOSURE | TEFC | STATOR RES.@ 25 °C | .0652/.195 |
| PHASE/HERTZ | 3/60 | AMB °C/INSUL | 40/F | E/S | 497782 | | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE

REMARKS:

AMPERES SHOWN FOR 796 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

617427-007

# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

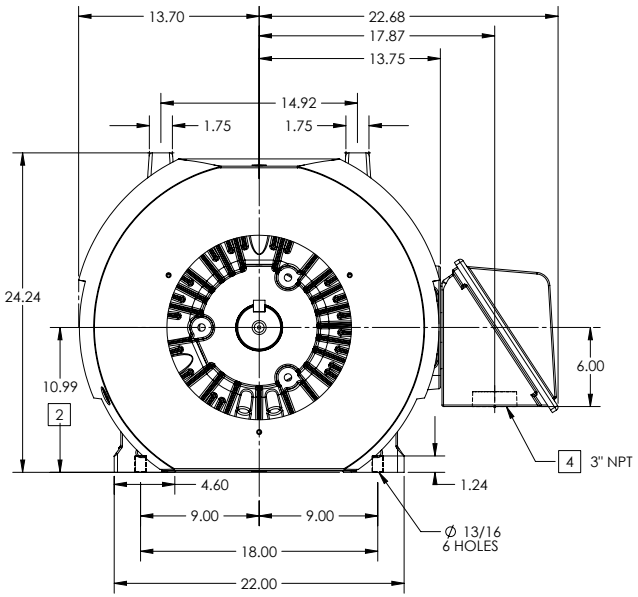
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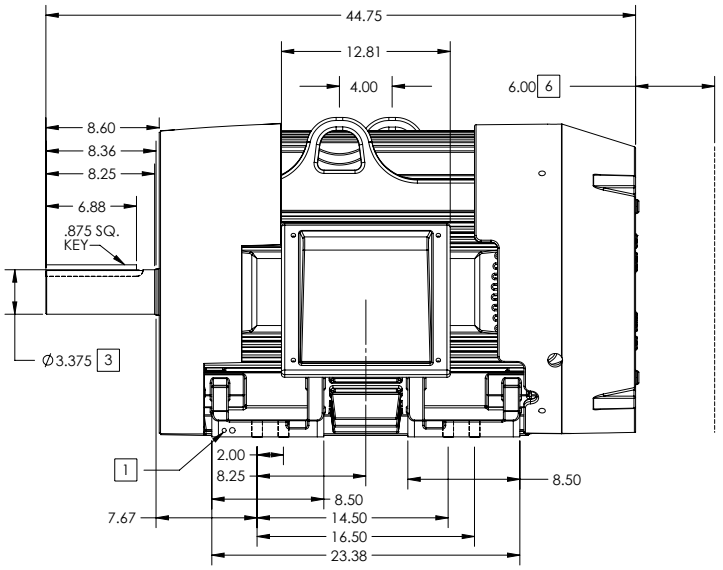
FRAME G445T ABOVE NEMA RATINGS

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

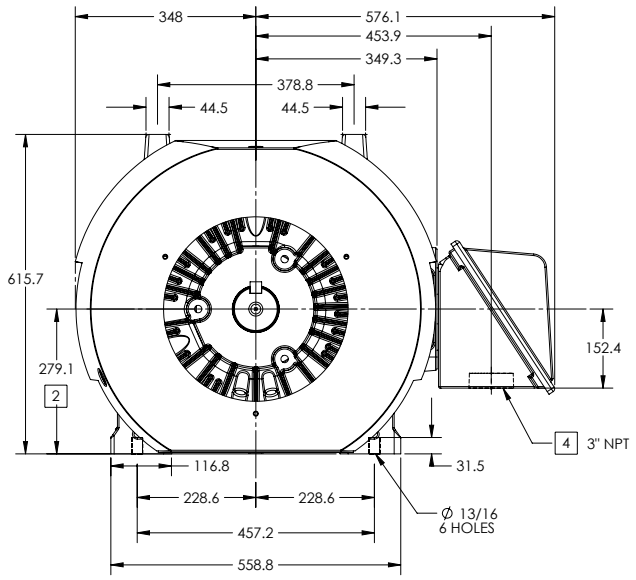
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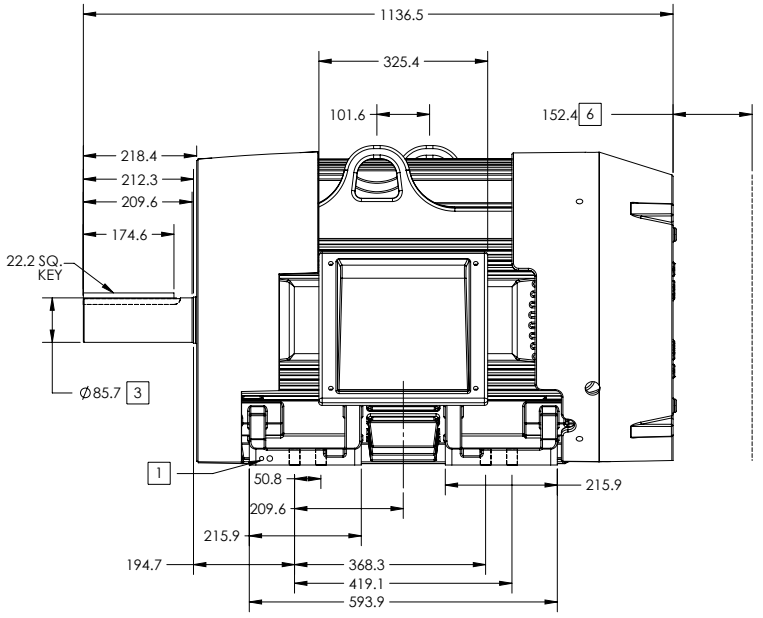
FRAME G445T ABOVE NEMA RATINGS

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

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| MODEL NO. 617427-007 | | | REF: |
| BY: RAGTBM | Material: | | C |

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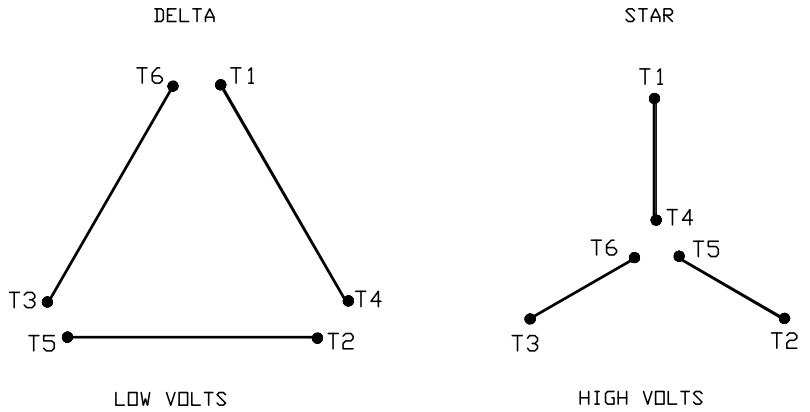
G445T/444T STD – FOOTED – SIDE/CENTER C/B - F2 MOUNT

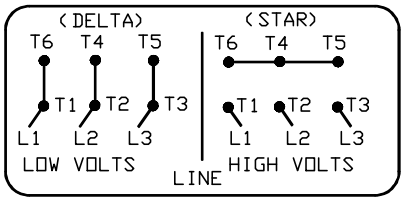
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416820-004

# A-C MOTOR
# CONNECTION DIAGRAM

## STANDARD 6 LEAD (DELTA/STAR CONNECTED)
## DUAL VOLTAGE (LOW VOLTS/HIGH VOLTS)




(N. P. 1767-CC)

416820-004

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A-C MOTOR CONNECTION DIAGRAM

SH 1 of 1