ABB BALDOR RELIANCE

# Customer information packet

## IDVSM4410T-4

125HP, 1790-2685RPM, 3PH, 60-90HZ, 444T, A440
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 444T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| | 90.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 125.000 HP @ 90 HZ |
| | 125.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 460.0 V @ 90 HZ |
| **Agency Approvals** | CCSA US |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Constant Torque Speed Range** | 1000:1 |
| **Current @ Voltage** | 140.000 A @ 460.0 V |
| | 150.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 140.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | M |
| **Lifting Lugs** | Standard Lifting Lugs |

## Part Detail

| | |
|---|---|
| **Revision** | L |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A44WG0911 |
| **Layout** | 617435-164 |
| **Eff. date** | 09-25-2025 |
| **CD Diagram** | 416820-036 |
| **Poles** | 04 |
| **Leads** | 3#1/0 |
| **Proprietary** | False |
| **Created date** | 08-23-2012 |

| | |
|---|---|
| **Max Speed** | 3600 rpm |
| **Motor Lead Quantity/Wire Size** | 3 @ 1/0 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A44062M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 44.75 IN |
| **Product Family** | Other |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.00 |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1790 rpm |
| | 2685 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |

**Nameplate**

**000613007HV**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT NO** | IDVSM4410T-4 | | **SPEC NO.** | P44G4008 | | | | | | | | |
| **SER.NO.** | | | **FRAME** | 444T | | | | | | | | |
| | **HP** | **RPM** | **VOLTS** | **AMPS** | **HZ** | **TYPE** | P | | | | | |
| **BASE** | 125 | 1790 | 460 | 150 | 60 | **SF** | 1.00 | | | | | |
| **MAX** | 125 | 2685 | 460 | 140 | 90 | **INSUL.CLASS** | F | | | | | |
| **DRIVE END BEARING** | 90BC03J30X | | **CONSTANT TORQUE** | | **DUTY** | CONT | **AMB** | 40 | | | | |
| **OPP D.E. BEARING** | 6318C3VL0241 | | 1000:1 | **ENCL** | TEFC | **PHASE** | 3 | | | | | |
| **DESIGN NO.** | A44WG0911-R003 | | **FLUX AMPS** | 62.1 | | **VPWM INVERTER READY** | | | | | | |
| **MAX SPEED/RPM** | 3600 | | **OVERTEMP PROT** | 2 | **WK2** | 40.0 | **POLES** | 4 | **WEIGHT** | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA254356 | SA P44G4008 | 1.000 ea |
| RA241164 | RA P44G4008 | 1.000 ea |
| 421948051 | LABEL, MYLAR | 1.000 ea |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABEL | 1.000 ea |
| 000692000VD | LABEL WARNING | 1.000 ea |
| 000613007HV | N/P BALDOR VSMASTER, CURUS | 1.000 ea |
| 412118006A | DRAIN | 2.000 ea |
| 089490099A | G28 BRKT 089490098WCA KB | 1.000 ea |
| 415072001B | CLAMP | 1.000 ea |
| 083199082A | G28 Fan cover machining | 1.000 ea |
| 034180014DA | KEY 1/4X1/4X1-3/4 L | 1.000 ea |
| 702618004T | FAN KB 182/70 (112) 440 | 1.000 ea |
| 004824015A | GREASE POLYREX EM | 1.160 lb |
| 032018020FK | HHCS 3/4-10X2-1/2 PLTD. | 4.000 ea |
| 032018008CK | HHCS 3/8-16X1L PLATED | 4.000 ea |
| 032018030DK | HHCS 1/2-13X3-3/4 PLTD. | 3.000 ea |
| 032018030DK | HHCS 1/2-13X3-3/4 PLTD. | 3.000 ea |
| 415096002A | CPLG 1/8 HEX TYPE | 1.000 ea |
| 410700004A | WSHR | 1.000 ea |
| 034017014AB | LCKW 3/8 STD. PLATED | 4.000 ea |
| 034530064AB | P/NIP 1/8 X 8" L Pipe Nipple | 1.000 ea |
| 089490099A | G28 BRKT 089490098WCA KB | 1.000 ea |
| 032018020FK | HHCS 3/4-10X2-1/2 PLTD. | 4.000 ea |
| 702658001A | CONDUIT BOX, E440 | 1.000 ea |
| 702658002A | +C/BOX CVR, PAINTED 440 | 1.000 ea |
| 415915007G | GASK, LAC | 1.000 ft |
| 406056008A | GASKET, TERBD 440 | 1.000 ea |
| 418153001A | GASK 440 | 1.000 ea |
| 032018008DK | HHCS 1/2-13X1 PLATED | 4.000 ea |
| 033512006LB | HHTTS 1/4-20X3/4 PLTD. | 8.000 ea |
| 406099000A | PLUG - FAN COVER 320-440 | 1.000 ea |

| | | |
|---|---|---|
| 415000115H | T/LUG #2AWG-4/0AWG | 1.000 ea |
| 032018005DL | 1/2-13 X 5/8 SILICON BRONZE HHCS | 1.000 ea |
| 033775004EA | DRSCR #6-1/4 304 S.S. | 2.000 ea |
| 034180054KA | 7/8 SQ X 6.75 KEY | 1.000 ea |
| 035000001A | ALFTG 1/8" 1610-BL | 1.000 ea |
| 034690002AB | PPLG 1/4" PLTD. | 1.000 ea |
| 034690005AB | PPLG 3/4 PLATED | 2.000 ea |
| 418151014G | RETAIN RING | 1.000 ea |
| 032018004BK | HHCS 5/16-18X1/2 PLATED | 3.000 ea |
| 035000001A | ALFTG 1/8" 1610-BL | 1.000 ea |
| 415096002A | CPLG 1/8 HEX TYPE | 1.000 ea |
| 032620016LA | SOCKET SET SCREW-449 | 3.000 ea |
| 702623013A | THERMAL BARRIER -- G28 -- BRACKET MTD | 1.000 ea |
| 034017013AB | LCKW 5/16 STD. PLATED | 3.000 ea |
| 034690002AB | PPLG 1/4" PLTD. | 1.000 ea |
| 034530044AB | P/NIP 1/8X5-1/2L GALV. | 1.000 ea |
| 032620016LA | SOCKET SET SCREW-449 | 3.000 ea |
| 000692000FF | N/P | 1.000 ea |
| PK5004A09 | BASE 48 X 39-1/4 WITH STACKED 2X4 RUUNER | 1.000 ea |
| MG1025N19 | WILKO 778.50 BLUE GREEN - 55 GAL DRUMS | 0.438 ga |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| REL S.O. | – | VOLTS | 460 | ENCLOSURE | TEFC | WYE CONN EQ CKT OHMS PER PHASE | | | |
| FRAME | 444T | AMPS | 150 | MAX SAFE RPM | 3600 | (AT BASE RATING, 25 °C) | | | |
| HP | 125 | DUTY | CONT | IM (AMPS) | 62.1 | R1 | .0136 | X1 | .134 |
| BASE SPEED | 1790 | S.F. | 1.00 | P.F.@NL/FL | 7.2/82.1 | R2 | .00939 | X2 | .109 |
| PHASE/HERTZ | 3/60 | AMB °C/INSUL | 40/F | WK$^2$ (Lb-Ft$^2$) | 40.99 | | | XM | 3.58 |

## RATED FULL LOAD DATA

| | RPM | HP | TORQUE LB-FT | FUND VOLTS | FREQ-HZ | AMPS |
|---|---|---|---|---|---|---|
| BASE SPEED | 1790 | 125 | 367 | 460 | 60 | 150 |
| MAX SPEED | 2684 | 125 | 244 | 460 | 90 | 140 |
| MIN SPEED | 0 | 0 | 367 | 7.80 | .342 | 150 |

## LOAD PERFORMANCE AT BASE SPEED

| | RPM | HP | TORQUE LB-FT | FUND VOLTS | FREQ-HZ | AMPS |
|---|---|---|---|---|---|---|
| NO LOAD | 1800 | 0 | 0 | 460 | 60 | 62.1 |
| 1/4 | 1797 | 31.3 | 92 | 460 | 60 | 80.4 |
| 1/2 | 1795 | 62.6 | 183 | 460 | 60 | 99.1 |
| 3/4 | 1792 | 93.8 | 275 | 460 | 60 | 124 |
| FULL LOAD | 1790 | 125 | 367 | 460 | 60 | 150 |
| O/L | 1779 | 249 | 734 | 460 | 60 | 274 |

| BLOWER DATA | VOLTS | PH/HZ | FL AMPS | LR AMPS | FRAME | CFM |
|---|---|---|---|---|---|---|
| | | | | | | |

REMARKS: TYPICAL DATA
VECTOR PWM INVERTER DUTY

BALDOR

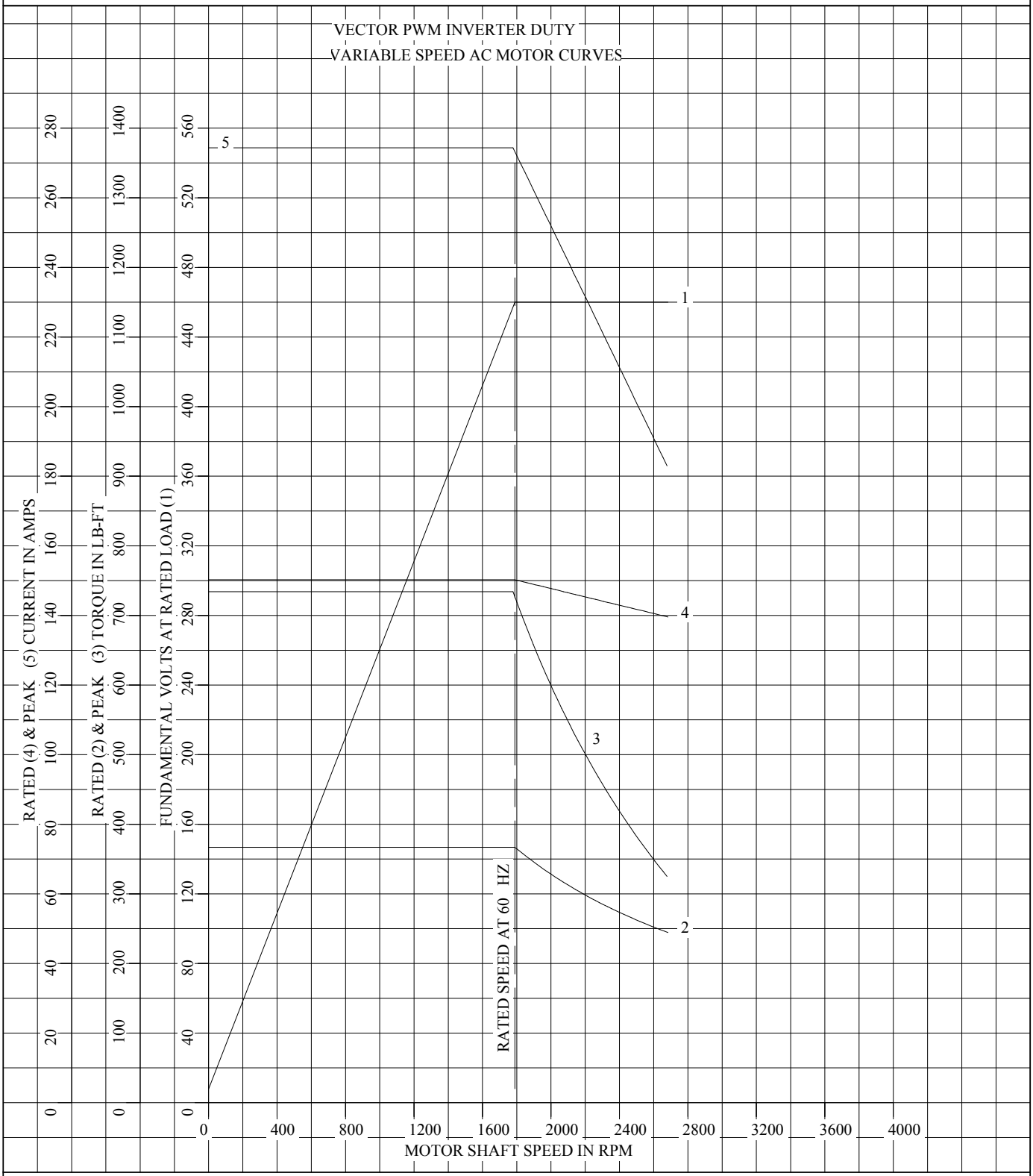
| | |
|---|---|
| DR. BY | M. ORDERS |
| CK. BY | J. TSAO |
| APP. BY | J. TSAO |
| DATE | 06/15/04 |

A-C MOTOR PERFORMANCE DATA

A44WG0911-R003

ISSUE DATE 12/21/10

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| REL S.O. | - | VOLTS | 460 | ENCLOSURE | TEFC | WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C) | |
| FRAME | 444T | AMPS | 150 | MAX SAFE RPM | 3600 | | |
| HP | 125 | DUTY | CONT | IM (AMPS) | 62.1 | R1 .0136 | X1 .134 |
| BASE SPEED | 1790 | S.F. | 1.00 | P.F.@NL/FL | 7.2/82.1 | R2 .00939 | X2 .109 |
| PHASE/HERTZ | 3/60 | AMB °C/INSUL | 40/F | WK² (Lb-Ft²) | 40.99 | | XM 3.58 |




**REMARKS:** TYPICAL DATA
**DATA VALID FOR NAMEPLATE SPEED RANGE ONLY**

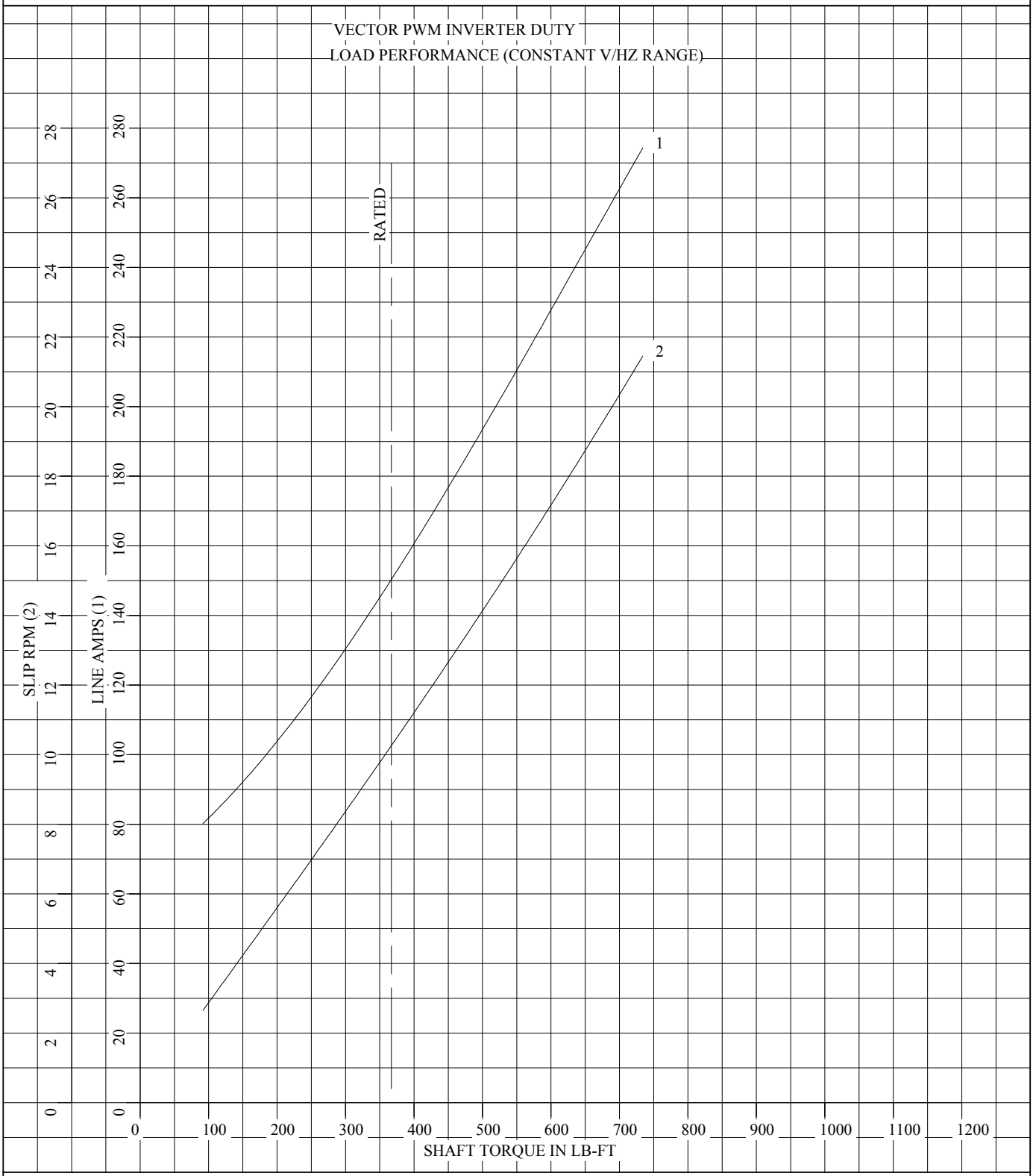
BALDOR

| | |
|---|---|
| DR. BY | M. ORDERS |
| CK. BY | J. TSAO |
| APP. BY | J. TSAO |
| DATE | 06/15/04 |

**A-C MOTOR PERFORMANCE CURVES**

**A44WG0911-R003**
SH 1 OF 2
ISSUE DATE 12/21/10

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| REL S.O. | - | VOLTS | 460 | ENCLOSURE | TEFC | WYE CONN EQ CKT OHMS PER PHASE | |
| FRAME | 444T | AMPS | 150 | MAX SAFE RPM | 3600 | (AT BASE RATING, 25 °C) | |
| HP | 125 | DUTY | CONT | IM (AMPS) | 62.1 | R1 .0136 | X1 .134 |
| BASE SPEED | 1790 | S.F. | 1.00 | P.F.@NL/FL | 7.2/82.1 | R2 .00939 | X2 .109 |
| PHASE/HERTZ | 3/60 | AMB °C/INSUL | 40/F | WK² (Lb-Ft²) | 40.99 | | XM 3.58 |




**REMARKS:** TYPICAL DATA

**DATA VALID FOR NAMEPLATE SPEED RANGE ONLY**

BALDOR

| | |
|---|---|
| DR. BY | M. ORDERS |
| CK. BY | J. TSAO |
| APP. BY | J. TSAO |
| DATE | 06/15/04 |

**A-C MOTOR PERFORMANCE CURVES**

**A44WG0911-R003**

SH 2 OF 2

ISSUE DATE 12/21/10

# DUTY MASTER ALTERNATING CURRENT MOTORS

617435-164

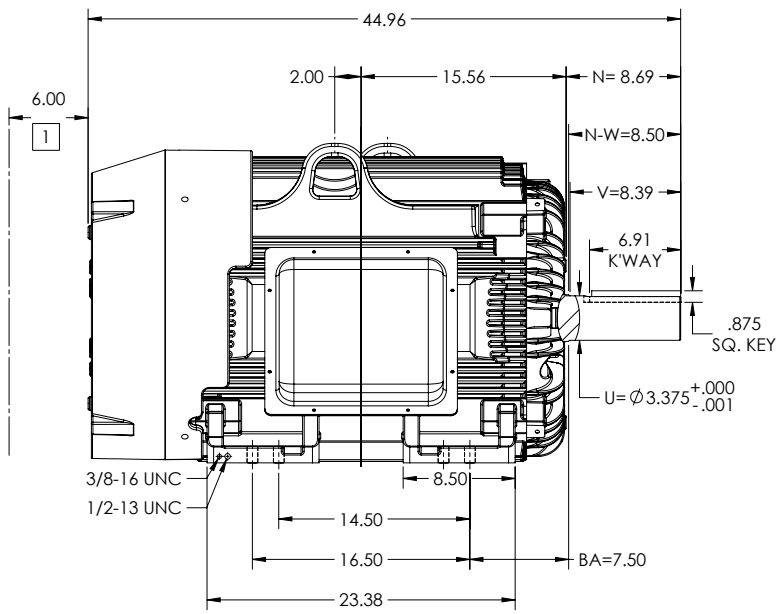
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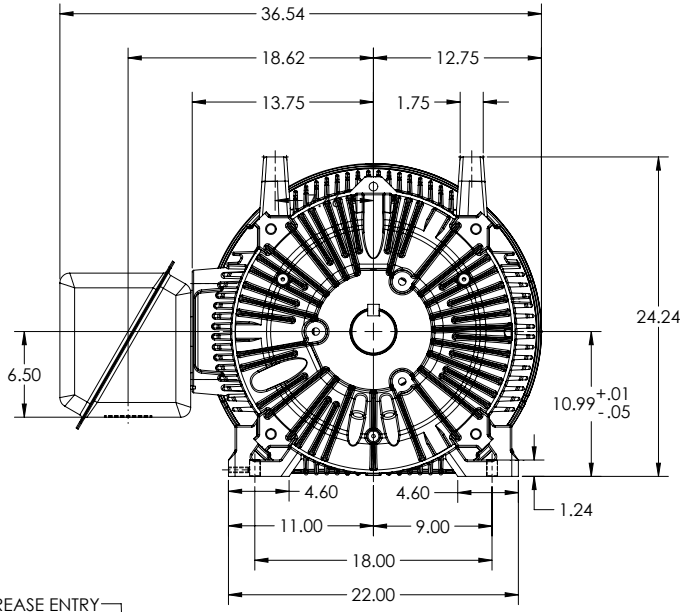
SQUIRREL-CAGE INDUCTION

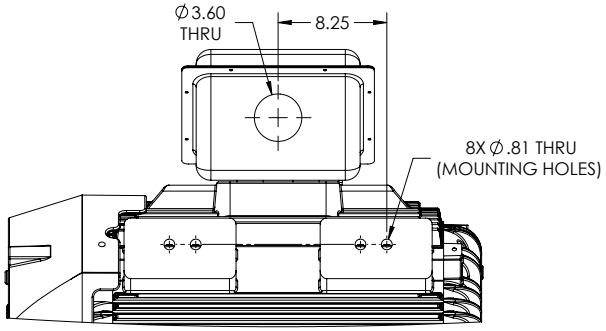
MOUNTING: FOOT, F-1 SIDE

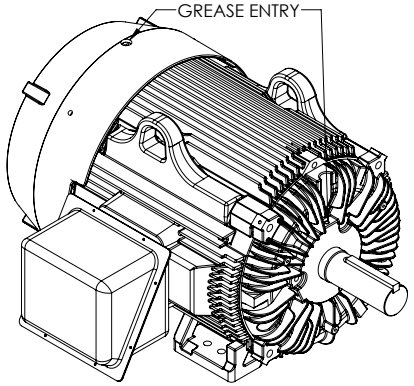
G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED




1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

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

DIMENSIONS ARE IN INCHES.
MOTOR WEIGHTS (LBS) = 2130 ±15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617435-164

| | | | |
|---|---|---|---|
| REV. DESC: ADD METRIC DS | | | |
| REV: B | VERSION: 02 | REVISED: 01:13:13 06/10/2021 | TDR: 000001169193 |
| MODEL NO. 617435-164 | | | REF: |
| BY: USJEDIL | Material: | C | G445/444T TEFC F1 FOOT SIDE/CEN STEEL CONDUIT BOX |

BALDOR

617435-164

# DUTY MASTER ALTERNATING CURRENT MOTORS

617435-164

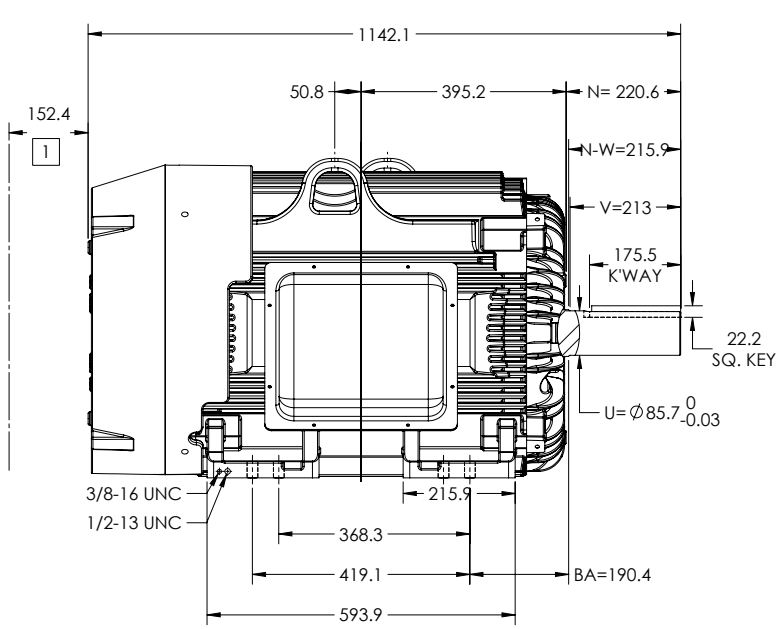
ENCLOSURE: TOTALLY ENCLOSED

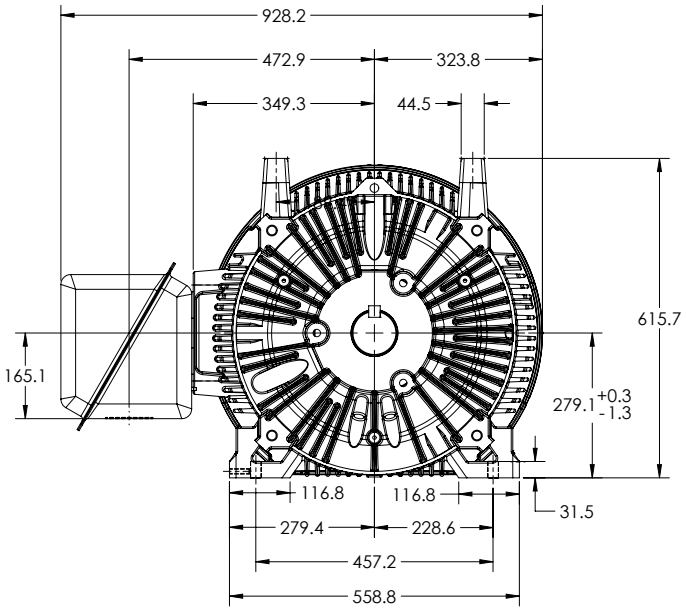
SQUIRREL-CAGE INDUCTION

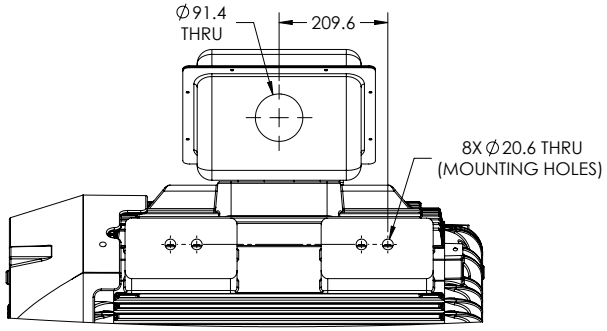
MOUNTING: FOOT, F-1 SIDE

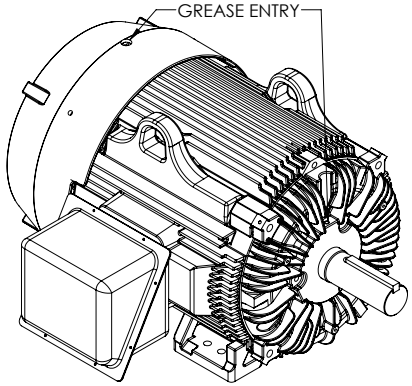
G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED




DIMENSIONS ARE IN MILLIMETERS.
MOTOR WEIGHTS (LBS) = 966 ±15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

SHEET NUMBER 2 OF 2

617435-164

| | | | |
|---|---|---|---|
| REV. DESC: ADD METRIC DS | | | |
| REV: B | VERSION: 02 | REVISED: 01:13:13 06/10/2021 | TDR: 000001169193 |
| MODEL NO. 617435-164 | | | REF: |
| BY: USJEDIL | Material: | | C |

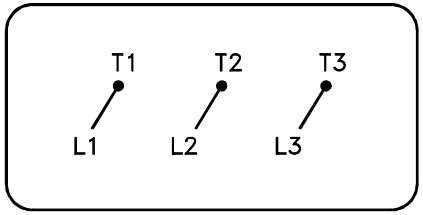
BALDOR

G445/444T TEFC F1 FOOT SIDE/CEN STEEL CONDUIT BOX

617435-164

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 |