ABB BALDOR RELIANCE

# Customer information packet

## EM2552T-4

75HP, 1185RPM, 3PH, 60HZ, 405T, ODP, FOOT,
Class - None
Division - Not Applicable

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9/9/2026 2:15:57 PM

## Specifications

| | |
|---|---|
| **Enclosure** | DP |
| **Frame** | 405T |
| **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 |
| **Agency Approvals** | CCSA US |
| | CCSAUSEEV |
| | CSA EEV |
| | CURUSEEV |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Current @ Voltage** | 86.900 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** | 86.9 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | G |
| **Lifting Lugs** | No Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 6 @ 6 AWG |

## Part Detail

| | |
|---|---|
| **Revision** | S |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A40WG0466 |
| **Layout** | 617428-118 |
| **Eff. date** | 12-19-2025 |
| **CD Diagram** | 416820-008 |
| **Poles** | 06 |
| **Leads** | 6#6 |
| **Proprietary** | False |
| **Created date** | 10-19-2010 |

| | |
|---|---|
| **Motor Standards** | NEMA |
| **Motor Type** | A40064M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 33.95 IN |
| **Power Factor** | 85 |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 2.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1185 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Wye Start - Delta Run |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

| NP2349L | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPEC NO.** | P40G302 | | **CAT.NO.** | EM2552T-4 | | | | | | **FRAME** | 405T | |
| **HP** | 75 | **VOLTS** | 460 | **PHASE** | 3 | **DESIGN** | B | **TYPE** | P | | | |
| **RPM** | 1185 | **AMPS** | 86.9 | **HZ** | 60 | **AMB** | 40 | **SF** | 1.15 | | | |
| **DRIVE END BEARING** | 80BC03J30X | | **DUTY** | CONT | | **INSUL.CLASS** | F | | | | | |
| **OPP D.E. BEARING** | 80BC03J30X | | **ENCL** | DP | **CODE** | G | | | | | | |
| **SER.NO.** | | | **POWER FACTOR** | 85 | | | **NEMA-NOM-EFFICIENCY** | | 95 | | | |
| | | | | | | **MAX CORR KVAR** | 15.0 | **GUARANTEED EFFICIENCY** | | | 94.5 | |
| | | | | | | **NEMA NOM/CSA QUOTED EFF** | | | | | | |
| | | | | | | | | **MOTOR WEIGHT** | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 089407053B | C-FACE BRKT 400 089407053WCA | P1 |
| 089407054B | D-FLANGE BRKT 400 089407054WCA, D-FLG | |

| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 405T | 75 | P | 3/60 | 1185 | 460 |

| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
|---|---|---|---|---|---|---|
| 86.9 | CONT | 40/F | 1.15 | B | G | ODP |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES.@25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 496415 | 418142-71-EE | --- | --- | .0860 |

PERFORMANCE

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 31.0 | 1200 | 4.11 | 0 |
| 1/4 | 18.8 | 37.2 | 1197 | 51.1 | 92.5 |
| 2/4 | 37.5 | 50.7 | 1194 | 73.0 | 95.0 |
| 3/4 | 56.2 | 67.7 | 1190 | 81.6 | 95.3 |
| 4/4 | 75.0 | 86.9 | 1187 | 85.1 | 95.0 |
| 5/4 | 93.8 | 108 | 1183 | 86.2 | 94.4 |
| | | | | | |

SPEED TORQUE

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 165 | 549 | 541 |
| PULL UP | 400 | 156 | 519 | 509 |
| BREAKDOWN | 1132 | 243 | 808 | 302 |
| FULL LOAD | 1187 | 100 | 332 | 86.9 |

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. 95.0 %, GUAR. MIN. EFF. 94.5%

BALDOR

DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 09/08/09

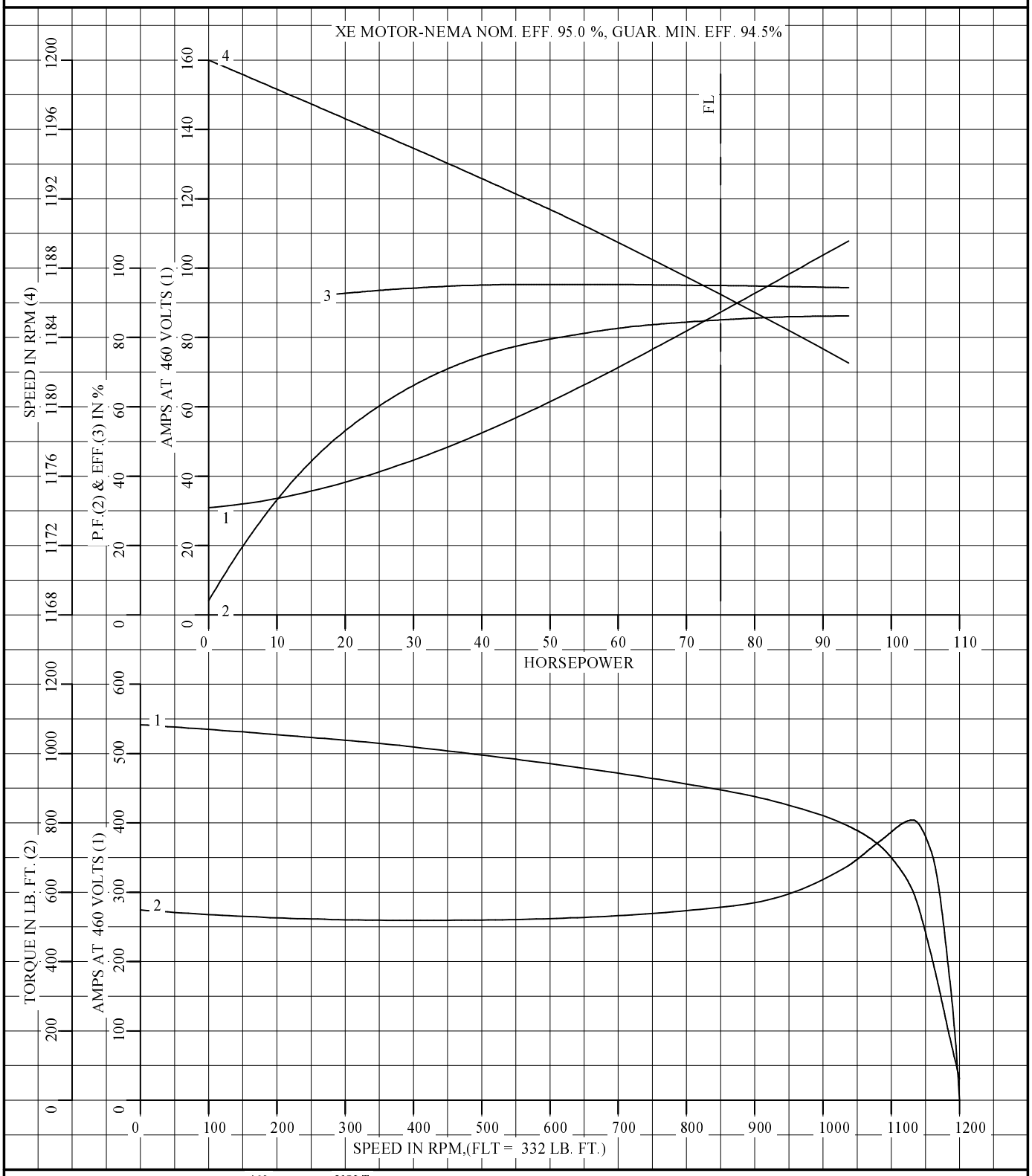
A-C MOTOR PERFORMANCE DATA

A40WG0466-R001
ISSUE DATE 12/15/10

ABB BALDOR RELIANCE

**CUSTOMER INFORMATION PACKET** EM2552T-4 - 75HP, 1185RPM, 3PH, 60HZ, 405T, ODP, FOOT,

| | | | |
|---|---|---|---|
| FRAME 405T | RPM 1185 | S.F. 1.15 | ROTOR 418142-71-EE |
| HP 75 | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| TYPE P | AMPS 86.9 | CODE LETTER G | TEST DATE --- |
| PHASE/HERTZ 3/60 | DUTY CONT | ENCLOSURE ODP | STATOR RES.@ 25 ℃ .0860 |
| | AMB ℃/INSUL 40/F | E/S 496415 | 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

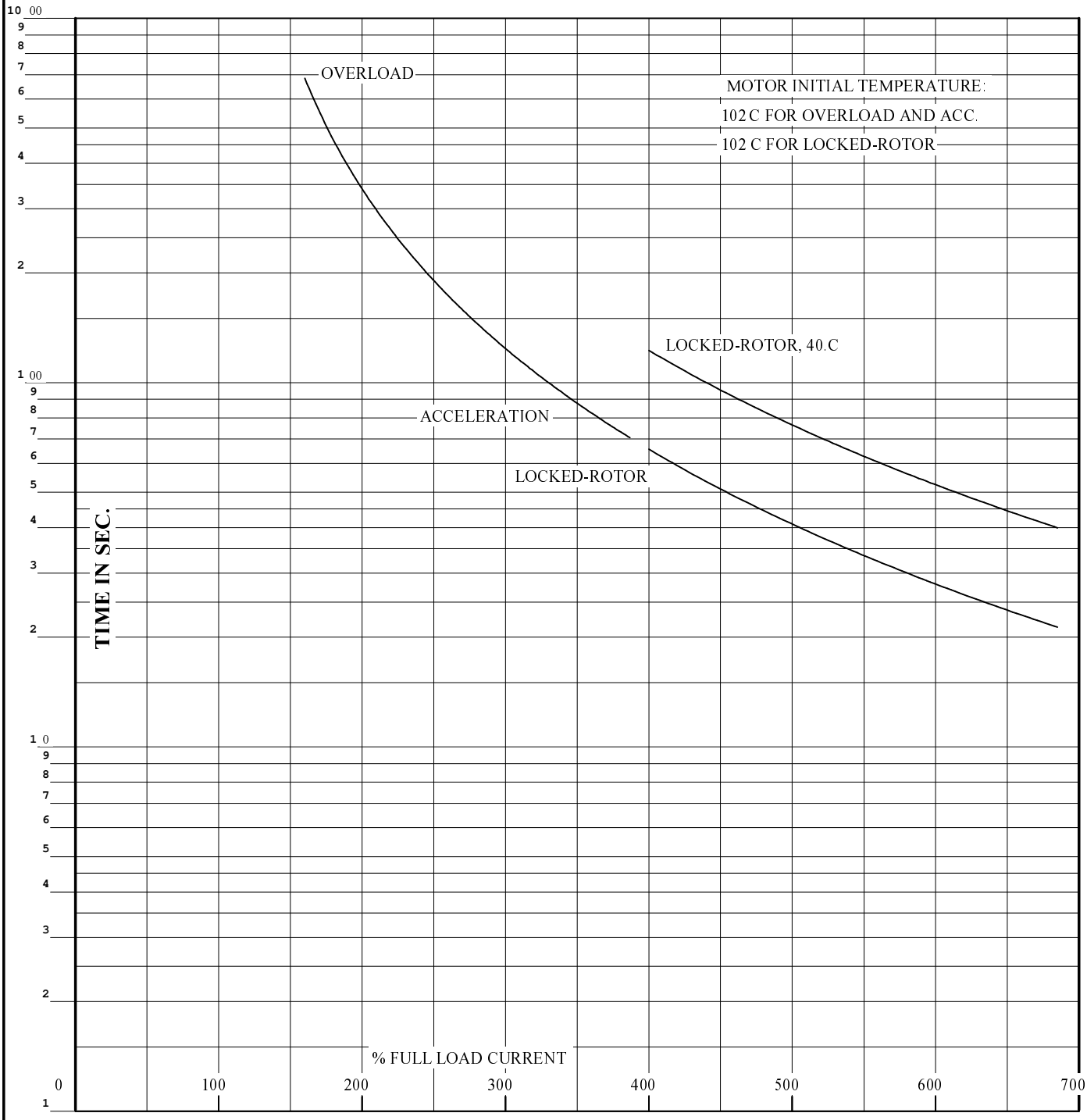
| | |
|---|---|
| DR. BY | J.J.HARRISON |
| CK. BY | W.L.SMITH |
| APP. BY | W.L.SMITH |
| DATE | 09/08/09 |

**A-C MOTOR PERFORMANCE CURVES** A40WG0466-R001 ISSUE DATE 12/15/10



Printed on 12/15/10 23:01 @ psecs-motoreng

| | | | |
|---|---|---|---|
| REL. S.O. | RPM 1185 | S.F. 1.15 | ROTOR 418142-71-EE |
| FRAME 405T | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| HP 75 | AMPS 86.9 | CODE LETTER G | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE ODP | STATOR RES.@ 25 ℃.0860 |
| PHASE/HERTZ 3/60 | AMB ℃/INSUL 40/F | E/S 496415 | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE

**REMARKS:** XE MOTOR-NEMA NOM. EFF. 95.0 %, GUAR. MIN. EFF. 94.5%

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

BALDOR

| | |
|---|---|
| DR. BY | J.J.HARRISON |
| CK. BY | W.L.SMITH |
| APP. BY | W.L.SMITH |
| DATE | 09/08/09 |

**A-C MOTOR PERFORMANCE CURVES** A40WG0466-R001 ISSUE DATE 12/15/10

# DUTY MASTER ALTERNATING CURRENT MOTORS

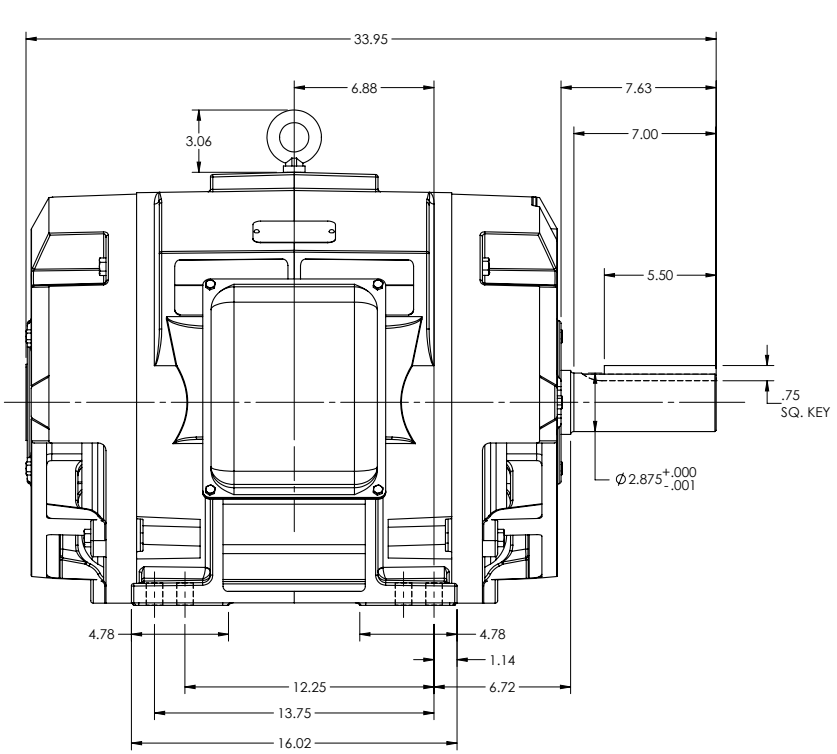
SQUIRREL-CAGE INDUCTION

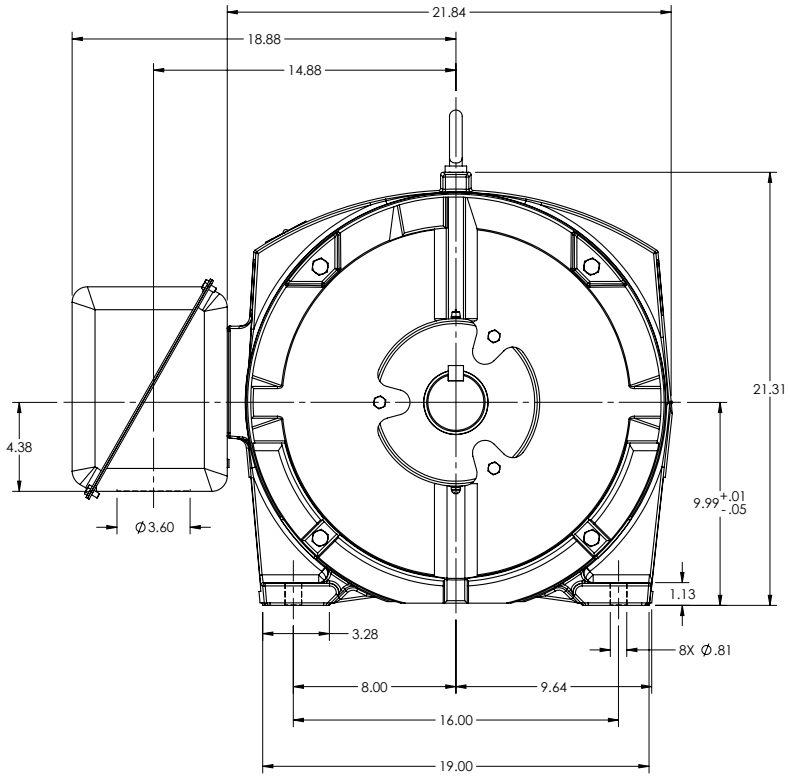
617428-118

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 404T-405T

COOLING: SELF-VENTILATED




MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .003 T.I.R.

WEIGHT (LBS): 404T = 1025
405T = 1065

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

| | | | |
|---|---|---|---|
| REV. DESC: NEW TO REPLACE 404-5T ON 611750-001 | | | |
| REV: - | VERSION: 00 | REVISED: 02:31:35 07/12/2022 | TDR: 000001193529 |
| MODEL NO. 617428-118 | | | REF: - |
| BY: USBUFRA | | | B |

BALDOR

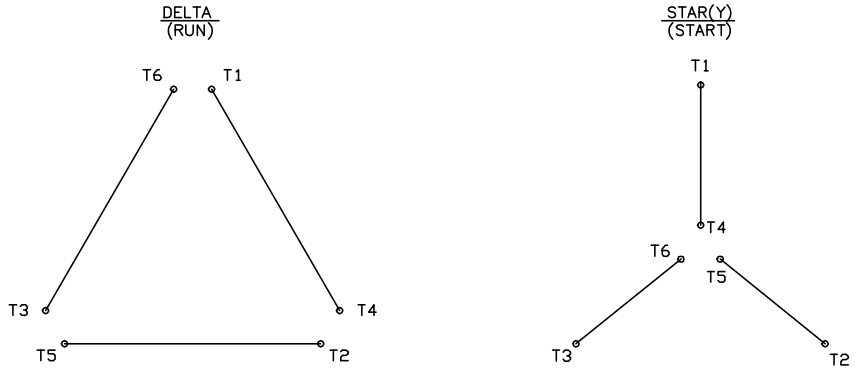
DIM SHT PROT SV FT 404-5T (611750-001)

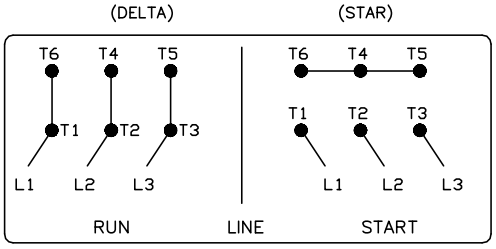
617428-118

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