ABB BALDOR RELIANCE

# Customer information packet

## ECR9608TR

60HP, 900RPM, 3PH, 60HZ, 405T, TEFC
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **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** | 60.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 900 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CCSAUSEEV |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Mobil SHC 220 (Athens Only) |
| **Constant Torque Speed Range** | 10-60 |
| **Current @ Voltage** | 186.000 A @ 230.0 V |
| | 93.200 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 93.2 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Max Speed** | 3000 rpm |

## Part Detail

| | |
|---|---|
| **Revision** | H |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A40WG5134 |
| **Layout** | 617429-501 |
| **Eff. date** | 01-28-2026 |
| **CD Diagram** | 416820-002 |
| **Poles** | 08 |
| **Leads** | 3#4,6#6 |
| **Proprietary** | False |
| **Created date** | 05-07-2015 |

| | |
|---|---|
| **Motor Lead Quantity/Wire Size** | 3 @ 4 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A4064M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 8 |
| **Overall Length** | 38.20 IN |
| **Power Factor** | 65 |
| **Product Family** | Crusher / Chipper |
| **Pulley End Bearing Type** | Roller |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 2.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 885 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

| 000613007PV | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT NO** | ECR9608TR | | | **SPEC NO.** | P40G1707 | | | | | | | |
| **HP** | 60 | **AMPS** | 186/93.2 | | **VOLTS** | 230/460 | | **DESIGN** | A | | | |
| **RPM** | 885 | **RPM MAX** | 3000 | | **HZ** | 60 | **AMB** | 40 | **SF** | 1.25 | | |
| **D.E. BRG.DATA** | NU316 | | | **O.D.E. BRG.DATA** | | 6316 | | **PH** | 3 | **DUTY** | CONT | **INSUL.CLASS** F |
| **FRAME** | 405T | **I.P.** | 55 | **TYPE** | P | **ENCL** | TEFC | **CODE** | H | | | |
| **POWER FACTOR** | 65 | | | **3/4 LOAD EFF.** | | 92.4 | | | | **NEMA NOM EFFICIENCY** | | 92.4 |
| **CHP HZ** | 60-90 | **CT HZ** | 10-60 | | **VT HZ** | 6-60 | | | | | | |
| **SER.NO.** | | | | | **MOTOR WEIGHT** | | | | | | | |
| | 1.25SF AMPS= 218/109 | | | | | | | | | | | |

| NP2496L |
|---|
| MOBIL SHC -220 GREASE |

| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 404T | 60 | P | 3/60 | 885 | 460 |

| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
|---|---|---|---|---|---|---|
| 93.2 | CONT | 40/F | 1.25 | A | H | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES.@25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 405134 | 418142071JE | --- | --- | .0965 |

PERFORMANCE

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 51.1 | 900 | 4.11 | 0 |
| 1/4 | 15.0 | 55.8 | 897 | 29.3 | 86.2 |
| 2/4 | 30.0 | 64.3 | 894 | 47.9 | 91.2 |
| 3/4 | 45.0 | 76.9 | 890 | 59.3 | 92.4 |
| 4/4 | 60.0 | 93.2 | 887 | 65.2 | 92.4 |
| 5/4 | 75.0 | 113 | 882 | 67.5 | 91.9 |
| | | | | | |

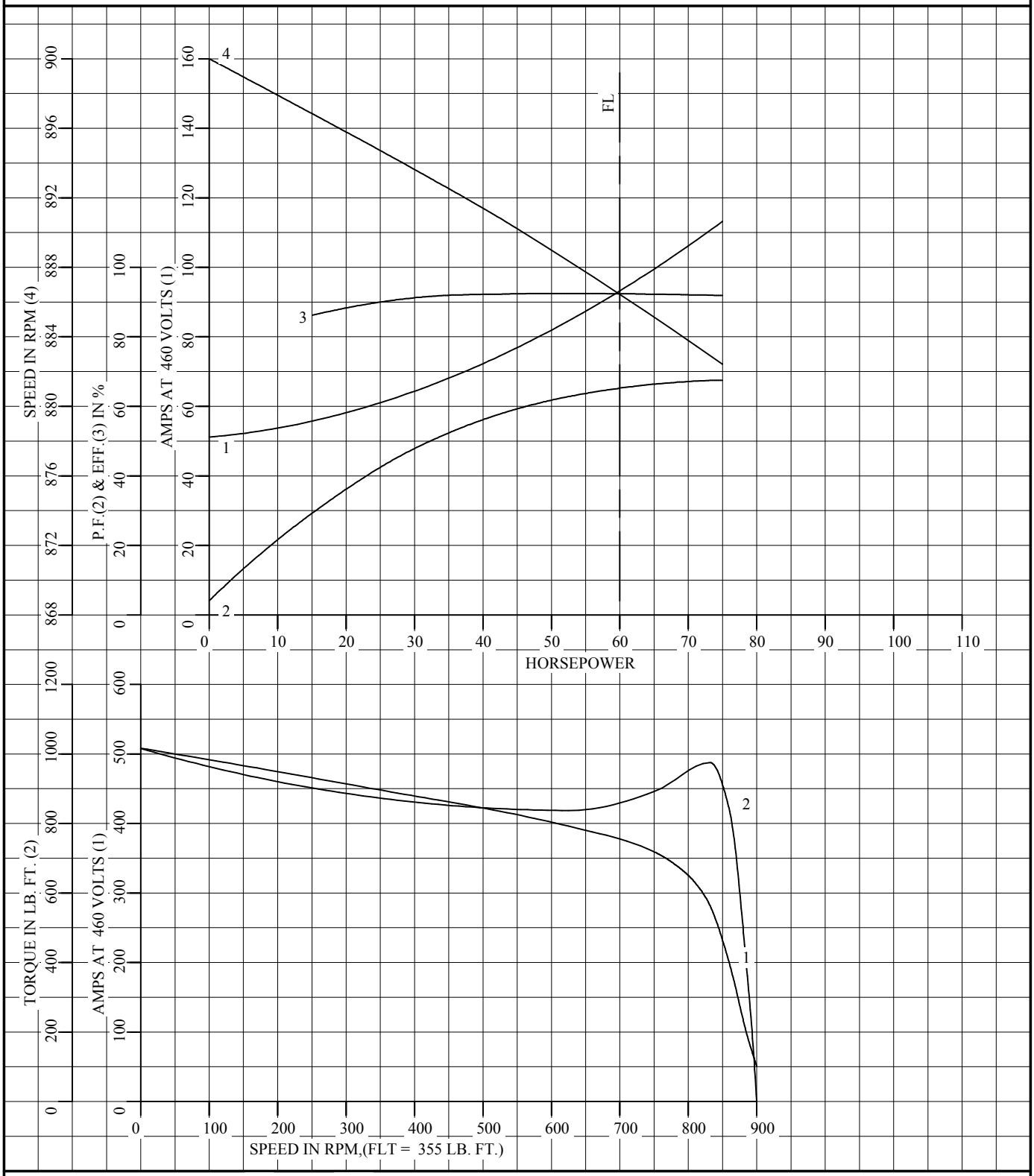
SPEED TORQUE

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 286 | 1015 | 508 |
| PULL UP | 630 | 236 | 838 | 395 |
| BREAKDOWN | 832 | 274 | 975 | 281 |
| FULL LOAD | 887 | 100 | 355 | 93.2 |

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

REMARKS: CALCULATED DATA

| | | | |
|---|---|---|---|
| REL S.O. | RPM 885 | S.F. 1.25 | ROTOR 418142071JE |
| FRAME 404T | VOLTS 460 | NEMA DESIGN A | TEST S.O. CALCULATED DATA |
| HP 60 | AMPS 93.2 | CODE LETTER H | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 °C .0965 |
| PHASE/HERTZ 3/60 | AMB °C/INSUL 40/F | E/S 405134 | 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 | E.J.CHRISTIAN |
| CK. BY | T.G.KELATI |
| APP. BY | T.G.KELATI |
| DATE | 08/14/15 |

A-C MOTOR PERFORMANCE CURVES

A40WG5134-R001

ISSUE DATE 08/14/15

617429-501

# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

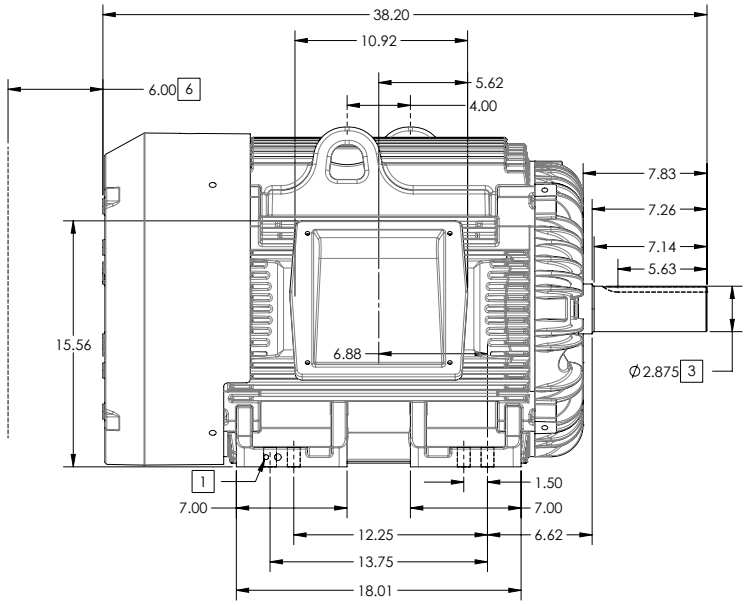
MOUNTING: FOOT

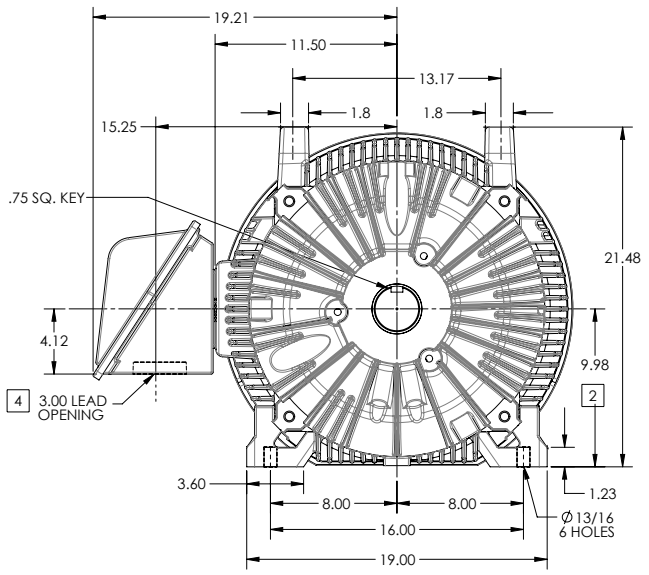
FRAME G405T ABOVE NEMA RATINGS

INCLUDES 404T FRAME MOUNTING HOLES

COOLING: FAN COOLED

XT/ECP SEVERE DUTY ENCLOSURE




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 NOT ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
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): 1370

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

617429-501

| | | | |
|---|---|---|---|
| REV. DESC: CHANGE BA FROM 6.76 TO 6.62 | | | |
| REV: B | VERSION: 02 | REVISED: 01:11:16 04/14/2014 | TDR: 000000848770 |
| MODEL NO. 617429-501 | | | REF: |
| BY: MGHJMZ2 | Material: | | C |

BALDOR

G405T/404T STD – FOOTED – XT/ECP SEVERE DUTY ENCLOSURE

617429-501

617429-501

# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

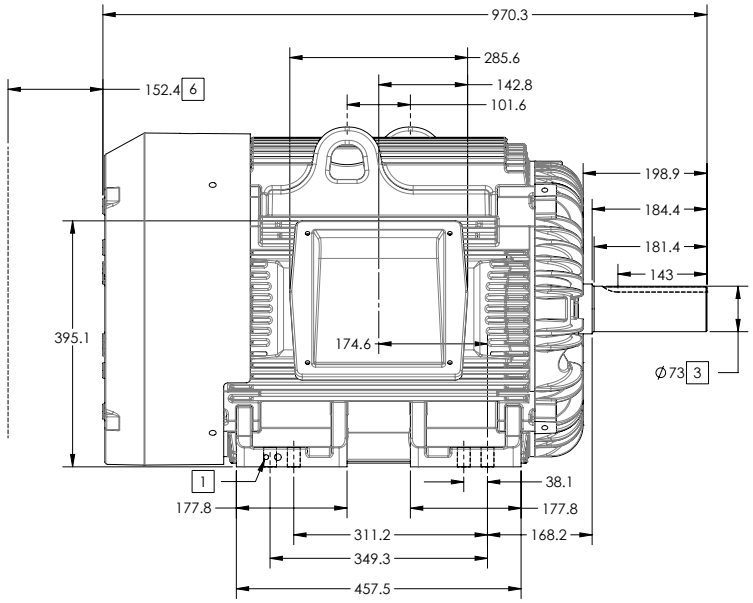
FRAME G405T ABOVE NEMA RATINGS

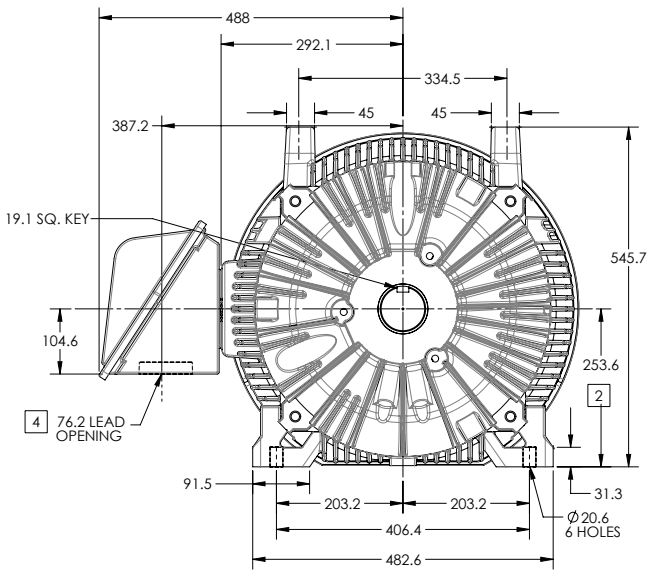
COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

XT/ECP SEVERE DUTY ENCLOSURE




1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.0,-1.5
3. VARIES +.00,-.03
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 NOT ENCROACH ON AIR INLET

5 WEIGHT (KGS): 630

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

SHEET NUMBER 2 OF 2

617429-501

| | | | |
|---|---|---|---|
| REV. DESC: CHANGE BA FROM 6.76 TO 6.62 | | | |
| REV: B | VERSION: 02 | REVISED: 01:11:16 04/14/2014 | TDR: 000000848770 |
| MODEL NO. 617429-501 | | | REF: |
| BY: MGHJMZ2 | Material: | | C |

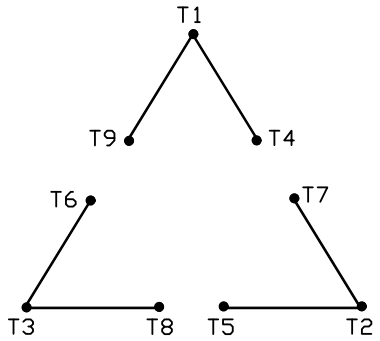
BALDOR

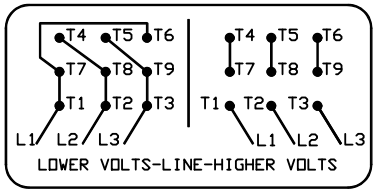
G405T/404T STD – FOOTED – XT/ECP SEVERE DUTY ENCLOSURE

617429-501

416820-002

# A-C MOTOR
# CONNECTION DIAGRAM
# STANDARD 9 LEAD DELTA-CONNECTED




(N. P. 1575-B)

| | | |
|---|---|---|
| REV. DESC: ADJUST TEXT DARKNESS | | |
| REV. LTR: B | VERSION: 02 | TDR: 000001285318 |
| FILE: \RAG\00022\453 | REVISED: 09:36:26 09/24/2026 | BY: USJOSUL |
| MTL: – | | |

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002