# Customer information packet

CEM4313T-G

75HP, 3555RPM, 3PH, 60HZ, 365TSC, TEFC, F1
Class - None
Division - Not Applicable

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11/16/2026 4:30:38 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 365TSC |
| **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** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 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** | 165.000 A @ 230.0 V |
| | 82.400 A @ 460.0 V |
| **Design Code** | B |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 94.1 % |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 82.4 a |
| **Insulation Class** | H |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | F |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 3 @ 4 AWG |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A36WG3719 |
| **Layout** | 617428-017 |
| **Eff. date** | 07-08-2024 |
| **CD Diagram** | 416820-002 |
| **Poles** | 02 |
| **Leads** | 3#4,6#6 |
| **Proprietary** | False |
| **Created date** | 08-20-2019 |

| | |
|---|---|
| **Motor Standards** | NEMA |
| **Motor Type** | A36068M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 31.31 IN |
| **Power Factor** | 91 |
| **Product Family** | General Industrial |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.875 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3555 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

## Nameplate

**NP3979LUA**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | CEM4313T-G | **SER** | | **CC** | 010A | | | | | | | |
| **SPEC** | A36-7044-3719 | **RATING** | 40C AMB-CONT | | | | | | | | | |
| **HZ** | **VOLTS** | **AMPS** | **RPM** | **HP** | **CODE** | **SF** | **DES** | **PF** | | **NEMA NOM. EFF** | | |
| 60 | 230/460 | 165/82.4 | 3555 | 75 | F | 1.15 | B | 91 | **%** | 94.1 | **%** | |
| | - | | | | | | | | **%** | | **%** | |
| **PH** | 3 | **CL** | H | **MAX CORR KVAR** | 8 | | | | | | | |
| **BRG** | **DE** | 6313 | **ODE** | 6313 | **ENCL** | TEFC | **FR** | 365TSC | 44 | | | |
| **GREASE** | POLYREX EM | | **MTR WT** | | **LBS** | | | | | | | |
| **USABLE AT** | 50HZ 60HP 190/380V 158/79A | SF1.0 | | | | | | | | | | |
| **INVERTER DUTY** | **CT** | 15-60 | **HZ** | 4:1 | **VT** | 3-60 | **HZ** | 20:1 | **CHP** | 60-75 | **HZ** | 1.5:1 **1.0 SF VPWM** |
| **MAX RPM** | 4500 | SFA 190/95 | | | | | | | | | | |

| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 365TS | 75 | P | 3/60 | 3555 | 230/460 |

| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
|---|---|---|---|---|---|---|
| 165/82.4 | CONT | 40/H | 1.15 | B | F | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES.@25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 892367 | 418141-5-AE | --- | --- | .0223/.0895 |

**PERFORMANCE**

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 21.5 | 3600 | 6.76 | 0 |
| 1/4 | 18.8 | 29.5 | 3589 | 65.1 | 91.5 |
| 2/4 | 37.5 | 44.9 | 3579 | 83.0 | 94.2 |
| 3/4 | 56.2 | 62.9 | 3568 | 88.6 | 94.5 |
| 4/4 | 75.0 | 82.4 | 3556 | 90.5 | 94.1 |
| 5/4 | 93.8 | 103 | 3543 | 91.0 | 93.4 |
| | | | | | |

**SPEED TORQUE**

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 152 | 169 | 516 |
| PULL UP | 1440 | 134 | 148 | 506 |
| BREAKDOWN | 3382 | 263 | 291 | 325 |
| FULL LOAD | 3556 | 100 | 111 | 82.4 |

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

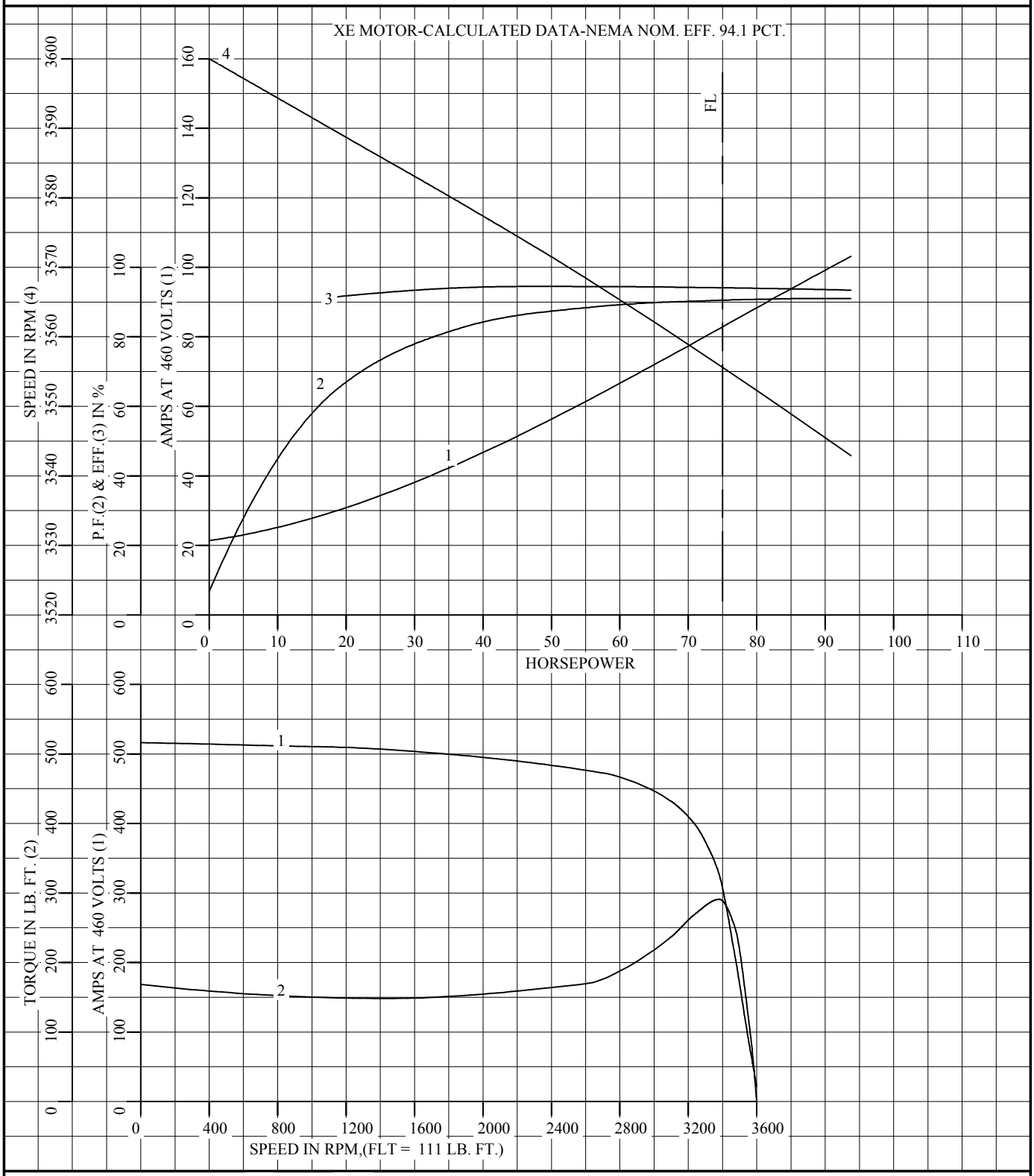
REMARKS: TYPICAL DATA
XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 94.1 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
CK. BY W. L. SMITH
APP. BY E.J.CHRISTIAN
DATE 04/11/14

**A-C MOTOR PERFORMANCE DATA** A36WG3719-R004
ISSUE DATE 04/24/20

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| REL S.O. | | RPM | 3555 | S.F. | 1.15 | ROTOR | 418141-5-AE |
| FRAME | 365TS | VOLTS | 230/460 | NEMA DESIGN | B | TEST S.O. | TYPICAL DATA |
| HP | 75 | AMPS | 165/82.4 | CODE LETTER | F | TEST DATE | --- |
| TYPE | P | DUTY | CONT | ENCLOSURE | TEFC | STATOR RES.@ 25 °C | .0223/.0895 |
| PHASE/HERTZ | 3/60 | AMB °C/INSUL | 40/H | E/S | 892367 | | 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

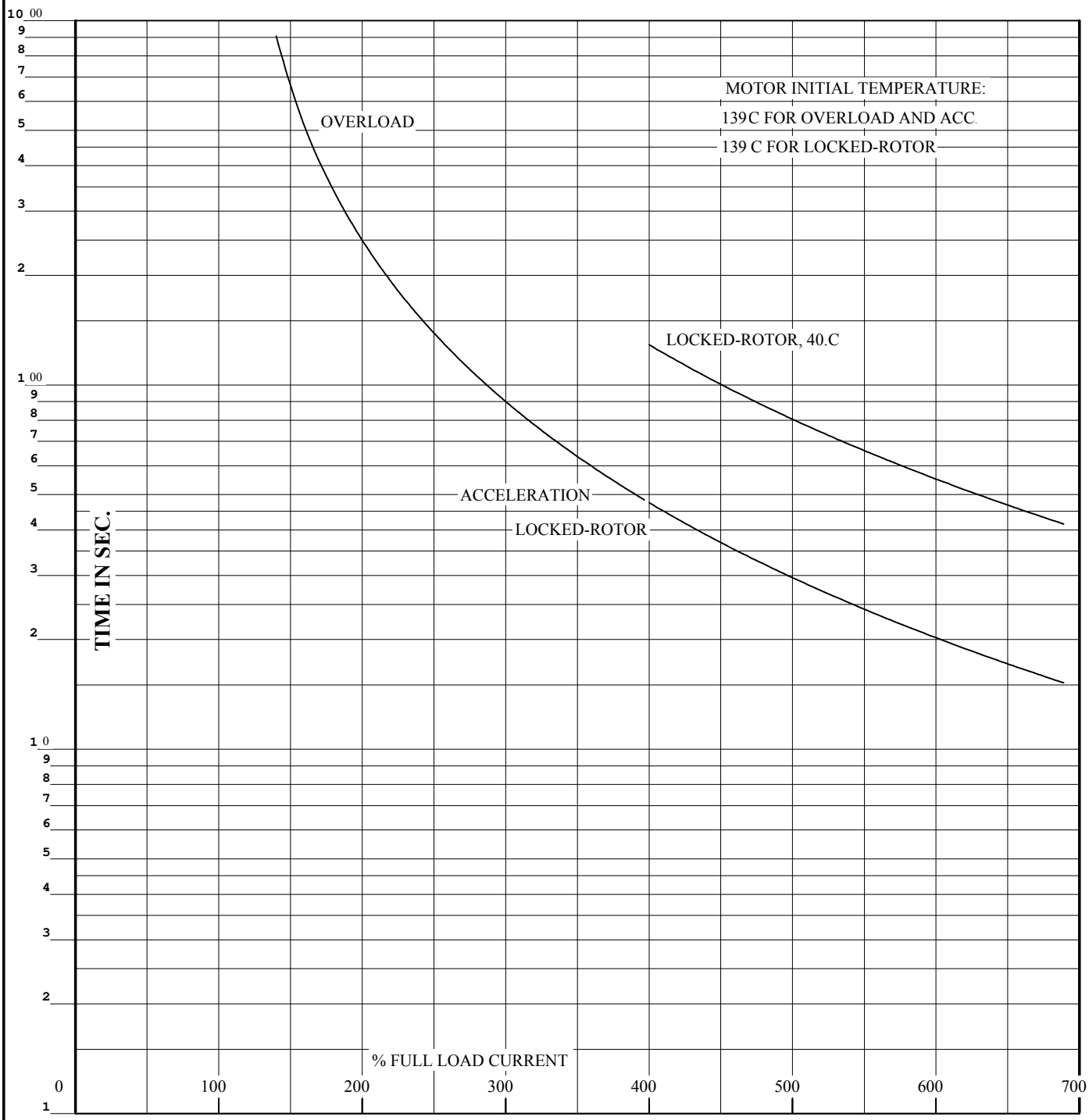
| | |
|---|---|
| DR. BY | G. R. WEBB |
| CK. BY | W. L. SMITH |
| APP. BY | E.J.CHRISTIAN |
| DATE | 04/11/14 |

**A-C MOTOR PERFORMANCE CURVES**

A36WG3719-R004

ISSUE DATE 04/24/20

| | | | |
|---|---|---|---|
| REL. S.O. | RPM 3555 | S.F. 1.15 | ROTOR 418141-5-AE |
| FRAME 365TS | VOLTS 230/460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| HP 75 | AMPS 165/82.4 | CODE LETTER F | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 °C.0223/.0895 |
| PHASE/HERTZ 3/60 | AMB °C/INSUL 40/H | E/S 892367 | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE

**REMARKS:** XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 94.1 PCT.

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

617428-017

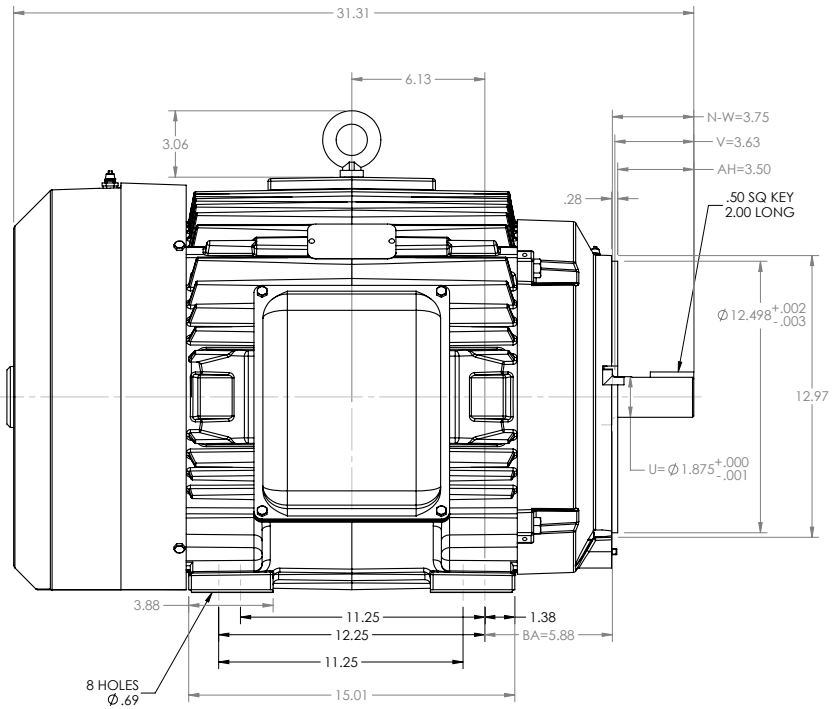
# DUTY MASTER ALTERNATING CURRENT MOTORS

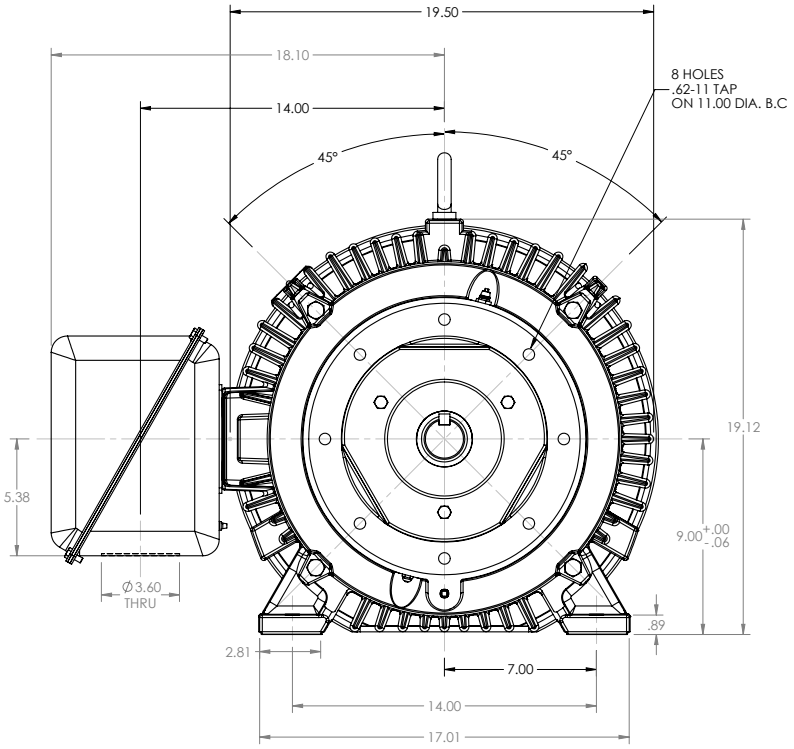
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364TSC-365TSC

COOLING: FAN COOLED




MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): 364TSC = 809
365TSC = 849

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: UPDATE DRAWING TO HAVE CORRECT "AH" | | | |
| REV: D | VERSION: 04 | REVISED: 01:59:50 10/05/2015 | TDR: 000000947176 |
| MODEL NO. 617428-017 | | | REF: |
| BY: RAGJSS1 | | | B |

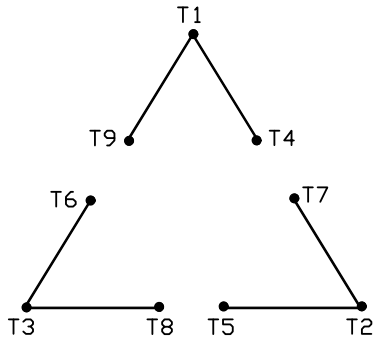
BALDOR

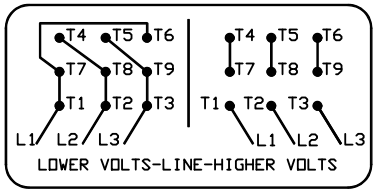
DIM SHEET 364-5TSC TEFC (611740-003-SH1)

617428-017

416820-002

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




(N. P. 1575-B)

416820-002

| | | |
|---|---|---|
| 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