ABB BALDOR RELIANCE

# Customer information packet

## EM4314T-G

60HP, 1780RPM, 3PH, 60HZ, 364T, A3658M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 364T |
| **Frame Material** | Iron |
| **Frequency** | 50.00 Hz |
| | 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 |
| | 50.000 HP @ 50 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1500 RPM @ 50 HZ |
| **Voltage @ Frequency** | 190.0 V @ 50 HZ |
| | 230.0 V @ 60 HZ |
| | 380.0 V @ 50 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** | 139.000 A @ 230.0 V |
| | 152.000 A @ 208.0 V |
| | 67.500 A @ 380.0 V |
| | 69.700 A @ 460.0 V |
| | 135.000 A @ 190.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 95.0 % |
| **Feedback Device** | NO FEEDBACK |

## Part Detail

| | |
|---|---|
| **Revision** | K |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A36WG4075 |
| **Layout** | 617428-021 |
| **Eff. date** | 02-13-2025 |
| **CD Diagram** | 416820-002 |
| **Poles** | 04 |
| **Leads** | 3#4,6#6 |
| **Proprietary** | False |
| **Created date** | 04-16-2020 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 67.5 a |
| **Insulation Class** | H |
| **Inverter Code** | Not Inverter |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 3 @ 4 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A3658M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 33.48 IN |
| **Power Factor** | 84 |
| **Product Family** | General Industrial |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 2.375 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1485 rpm |
| | 1780 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

**NP3979LUA**

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | EM4314T-G | | | **SER** | | | | **CC** | 010A | | | | | | | | | | | |
| **SPEC** | A36-0001-4075 | | | **RATING** | 40C AMB-CONT | | | | | | | | | | | | | | | |
| **HZ** | **VOLTS** | | | **AMPS** | | | **RPM** | **HP** | **CODE** | | **SF** | **DES** | | **PF** | | **NEMA NOM. EFF** | | | | |
| 60 | 230/460 | | | 140/70 | | | 1780 | 60 | G | | 1.15 | B | | 84 | % | 95 | % | | | |
| | - | | | | | | | | | | | | | | % | | % | | | |
| **PH** | 3 | **CL** | H | **MAX CORR KVAR** | 15 | | | | | | | | | | | | | | | |
| **BRG** | **DE** | 6313 | | **ODE** | 6313 | | **ENCL** | TEFC | | **FR** | 364T | | | 54 | | | | | | |
| **GREASE** | POLYREX EM | | | | | | | | | **MTR WT** | 815 | **LBS** | | | | | | | | |
| **USABLE AT** | 50HZ 50HP 190/380V 138/69A | | | | | | | | | SF1.0 | | | | | | | | | | |
| **INVERTER DUTY** | **CT** | 15-60 | **HZ** | 4:1 | **VT** | 3-60 | **HZ** | 20:1 | **CHP** | 60-90 | **HZ** | 1.5:1 | **1.0 SF VPWM** | | | | | | | |
| **MAX RPM** | 2700 | | | | | | | | | | | | | | | | | | | |

# DUTY MASTER ALTERNATING CURRENT MOTORS

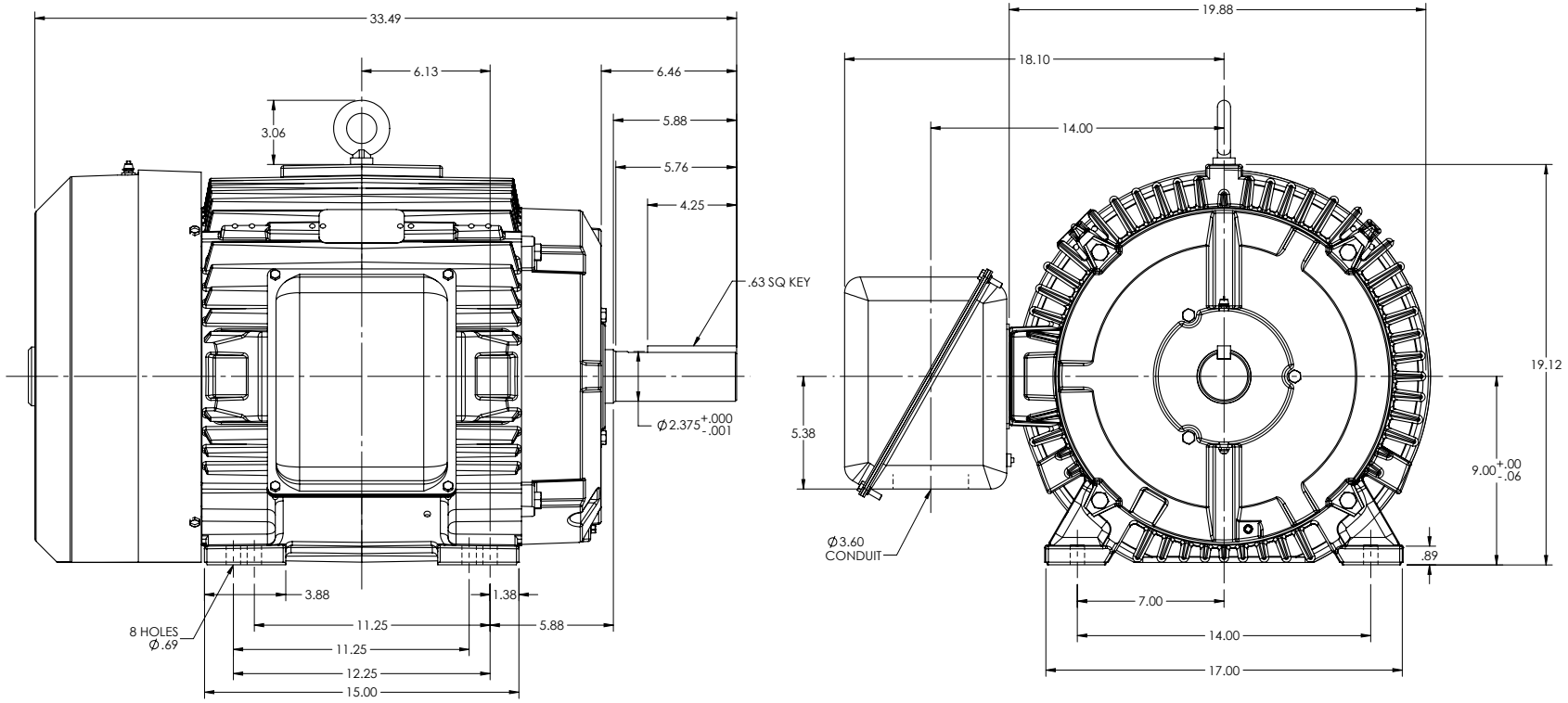
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-021

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364T-365T

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): 364T = 800
365T = 840

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: CHG C/BOX ENTRY FROM NPT TO CONDUIT HOLE | | | |
| REV: B | VERSION: 02 | REVISED: 01:51:11 06/03/2025 | TDR: 000001257372 |
| MODEL NO. 617428-021 | | | REF: |
| BY: RAGGDM | | | B |

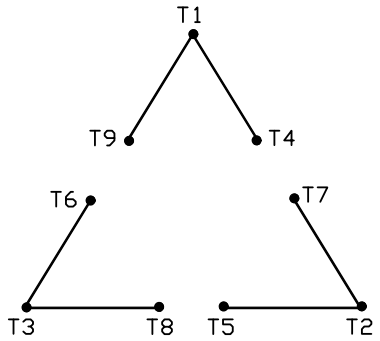
BALDOR

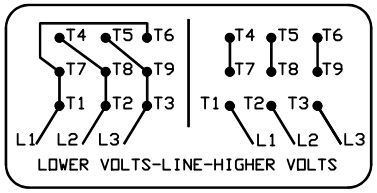
DIM SHT TEFC 364-365T FT MTG W/SHAFT GROUND

617428-021

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