ABB BALDOR RELIANCE

# Customer information packet

## ECP4314T

60HP, 1780RPM, 3PH, 60HZ, 364T, A3658M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 364T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 60.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CCSAUSEEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Constant Torque Speed Range** | 10-60 |
| **Current @ Voltage** | 70.000 A @ 460.0 V |
| | 152.000 A @ 208.0 V |
| | 140.000 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 95.0 % |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 70.0 a |

## Part Detail

| | |
|---|---|
| **Revision** | Z |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A36WG4075 |
| **Layout** | 617428-034 |
| **Eff. date** | 02-13-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 3#4,6#6 |
| **Proprietary** | False |
| **Created date** | 10-19-2010 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Max Speed** | 2700 rpm |
| **Motor Lead Quantity/Wire Size** | 3 @ 4 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A3658M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 33.49 IN |
| **Power Factor** | 84 |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 2.375 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1780 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

**NP4033LUA**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | ECP4314T | | | **SER** | | | | **CC** | 010A | | | | | | | | | | |
| **SPEC** | P36G3310 | | | **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** | F | **MAX RPM** | 2700 | | **MAX CORR KVAR** | 15 | | | | | | | | | | | |
| **BRG** | **DE** | 6313 | **ODE** | 6313 | **ENCL** | TEFC | **FR** | 364T | | **IP** | 55 | | | | | | | | |
| **GREASE** | POLYREX EM | | | | | | **MTR WT** | 867 | **LBS** | | | | | | | | | | |
| | | **CL I DIV 2 GRPS A,B,C,D** | | | **CL I ZONE 2 GRPS** | | | | **IIA,IIB,IIC** | | | **TEMP T** | 200 | **C** | | | | | |
| **INV READY** | **CT** | 15-60 | **HZ** | 4:1 | **VT** | 3-60 | **HZ** | 20:1 | | **CHP** | 60-90 | **HZ** | 1.5:1 | | | | | | |
| **INV TEMP CL** | 200 | **C** | **USABLE AT** | 50HZ 50HP 190/380V 138/69A | | | | | | | SF1.0 | | | | | | | | |

AC induction motor performance data

Record #72794 - Typical performance - not guaranteed values

| | |
|---|---|
| Winding | A36WG4075 |
| Type | A3658M |
| Enclosure | TEFC |

| Nameplate data | | | |
|---|---|---|---|
| Rated Output | | | 60 |
| Volts | | | 230/460 |
| Full Load Amps | | | 140/70 |
| R.P.M. | | | 1780 |
| Hz | 60 | Phase | 3 |
| KVA Code | | | G |
| S.F. | | | 1.15 |
| NEMA Nom. Eff. | 95 | Power Factor | 84 |
| Duty | | | CONT |
| S.F. Amps | | | |

460 V, 60 Hz:

| High Voltage Connection | |
|---|---|
| Full Load Torque | 176.4 LB-FT |
| Start Configuration | direct on line |
| Breakdown Torque | 422 LB-FT |
| Pull-up Torque | 276 LB-FT |
| Locked-rotor Torque | 352 LB-FT |
| Starting Current | 462 A |
| No-load Current | 24.8 |
| Line-line Res. @ 25°C | 0.10816 Ω |
| Temp. Rise @ Rated Load | 56°C |
| Temp. Rise @ S.F. Load | 70°C |
| Locked-rotor Power Factor | 32.3 |
| Rotor inertia | 0 |

Load Characteristics 460 V, 60 Hz, 60 HP

| % of Rated Load | NL | 25 | 50 | 75 | 100 | 125 | 150 | SF |
|---|---|---|---|---|---|---|---|---|
| Power Factor | 4 | 51 | 73 | 81 | 84 | 86 | 85 | 85 |
| Efficiency | 0 | 92.6 | 95.1 | 95.4 | 95.2 | 94.6 | 93.8 | 94.8 |
| Speed | 1798.9 | 1796.4 | 1792.4 | 1788 | 1783.7 | 1778.3 | 1772.3 | 1780 |
| Line amperes | 24.8 | 29.7 | 40.7 | 54.4 | 69.7 | 86.6 | 105 | 79.8 |

ABB BALDOR RELIANCE

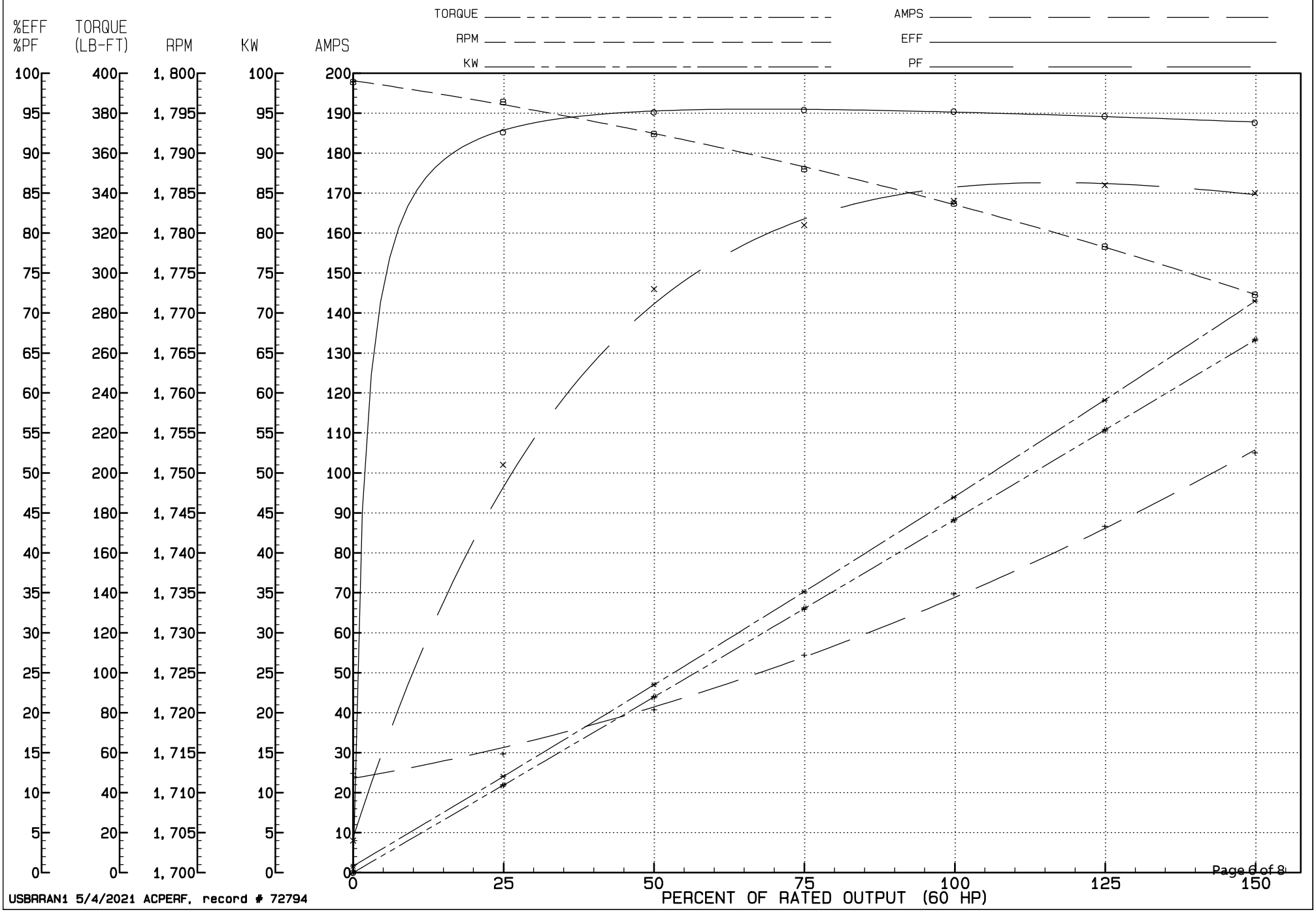
**CUSTOMER INFORMATION PACKET** ECP4314T - 60HP, 1780RPM, 3PH, 60HZ, 364T, A3658M, TEFC, F

# REVIEW

## WINDING # A36WG4075

60 HP 3 PH 60 HZ 1780 RPM 460 V A3658M

TORQUES(LB-FT): PO=422.00 PU=276.00 LR=352.00 LRA=462.00






USBRRAN1 5/4/2021 ACPERF, record # 72794

# DUTY MASTER ALTERNATING CURRENT MOTORS

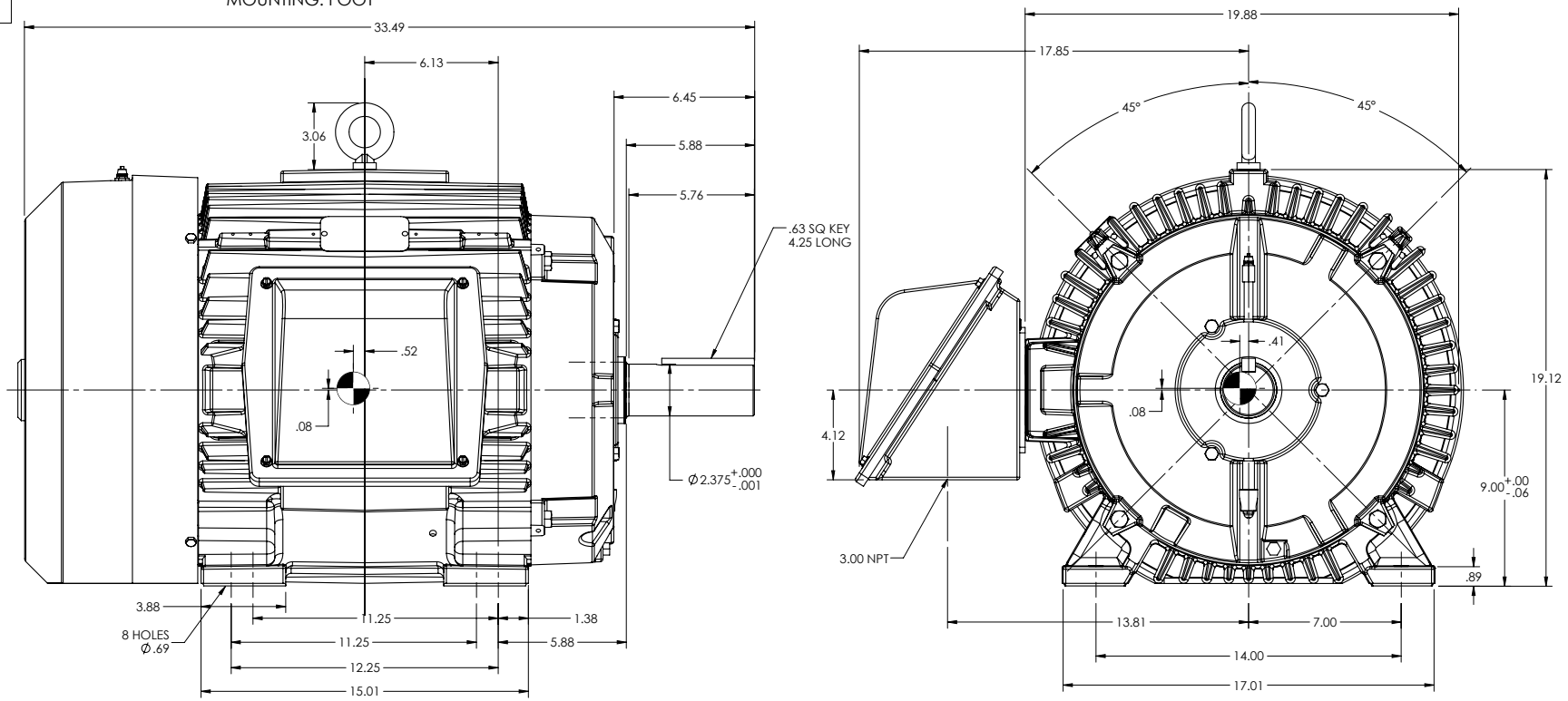
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364T-365T

COOLING: FAN COOLED

617428-034




⊕ DENOTES CENTER GRAVITY VARY ± 1.00 INCH

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.

CONDUIT BOXES LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED

WEIGHT (LBS): 364T = 865
365T = 890

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

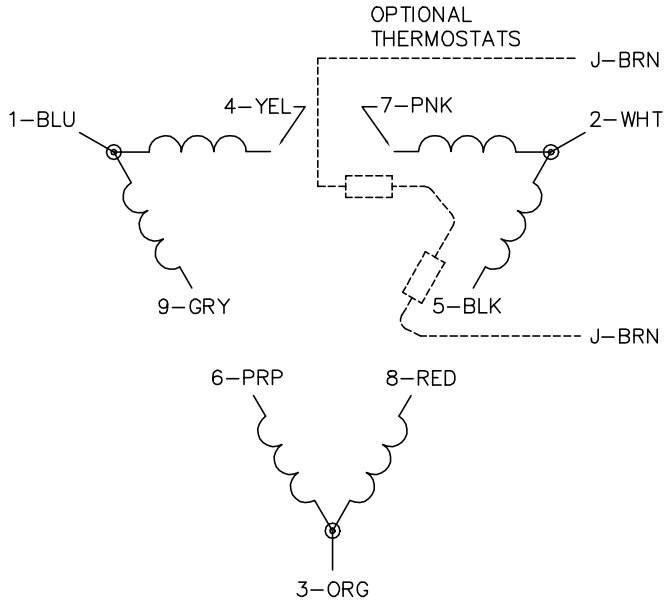
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| MODEL NO. 617428-034 | | | REF: |
| BY: RAGGDM | | | B |

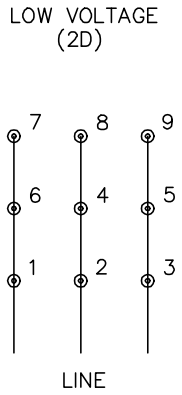
BALDOR

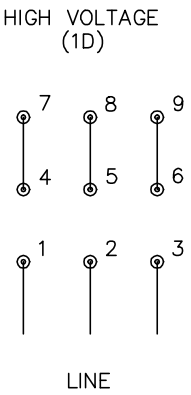
DIM SHEET HOR 364-5T TEFC XT

617428-034

CD0180




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

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|---|---|---|
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| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1