ABB BALDOR RELIANCE

# Customer information packet

## ECTM4100T-G

15HP, 1175RPM, 3PH, 60HZ, 284T, 1046M, TEFC, F1
Class - None
Division - Not Applicable

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11/15/2026 11:29:41 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 284T |
| **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** | 15.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 42.000 A @ 230.0 V |
| | 42.000 A @ 208.0 V |
| | 21.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | Tapped & Key |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | 10T010 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGY561 |
| **Layout** | 10LYT010 |
| **Eff. date** | 11-03-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 06 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 04-13-2022 |

| | |
|---|---|
| **Heater Indicator** | Heater Included, 115 V |
| **High Voltage Full Load Amps** | 21.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | H |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 10 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1046M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 27.57 IN |
| **Power Factor** | 73 |
| **Product Family** | Chemical Processing (Not DC) |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.875 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1175 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1260 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ECTM4100T-G | | | | | | | | |
| **SPEC.** | 10T010Y561G1 | | | | | | | | |
| **HP** | 15 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMP** | 42/21 | | | | | | | | |
| **RPM** | 1175 | | | | | | | | |
| **FRAME** | 284T | **HZ** | 60 | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | H | **DES** | A | | **CL** | F | |
| **NEMA-NOM-EFF** | 91.7 | **PF** | 73 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6311 | **ODE** | 6309 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| | INV DUTY 20:1VT | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 29743
Typical performance - not guaranteed values

| **Winding:** 10WGY561-R001 | **Type:** 1046M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 15 | **Full Load Torque** | 66.68 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 42/21 | **Breakdown Torque** | 213 LB-FT |
| **R.P.M.** | | | 1175 | **Pull-up Torque** | 93.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 114 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 144 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 12.4 A |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 73 | **Line-line Res. @ 25ºC** | 0.502 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 43°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 51°C |
| | | | | **Locked-rotor Power Factor** | 32.9 |
| | | | | **Rotor inertia** | 5.63 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 52 | 65 | 72 | 76 | 78 | 75 |
| **Efficiency** | 83 | 89.4 | 91.3 | 91.7 | 91.4 | 90.8 | 91.7 |
| **Speed** | 1196 | 1193 | 1189 | 1185 | 1181 | 1177 | 1181 |
| **Line amperes** | 13.2 | 15.1 | 17.9 | 21.3 | 25.3 | 29.6 | 23.4 |

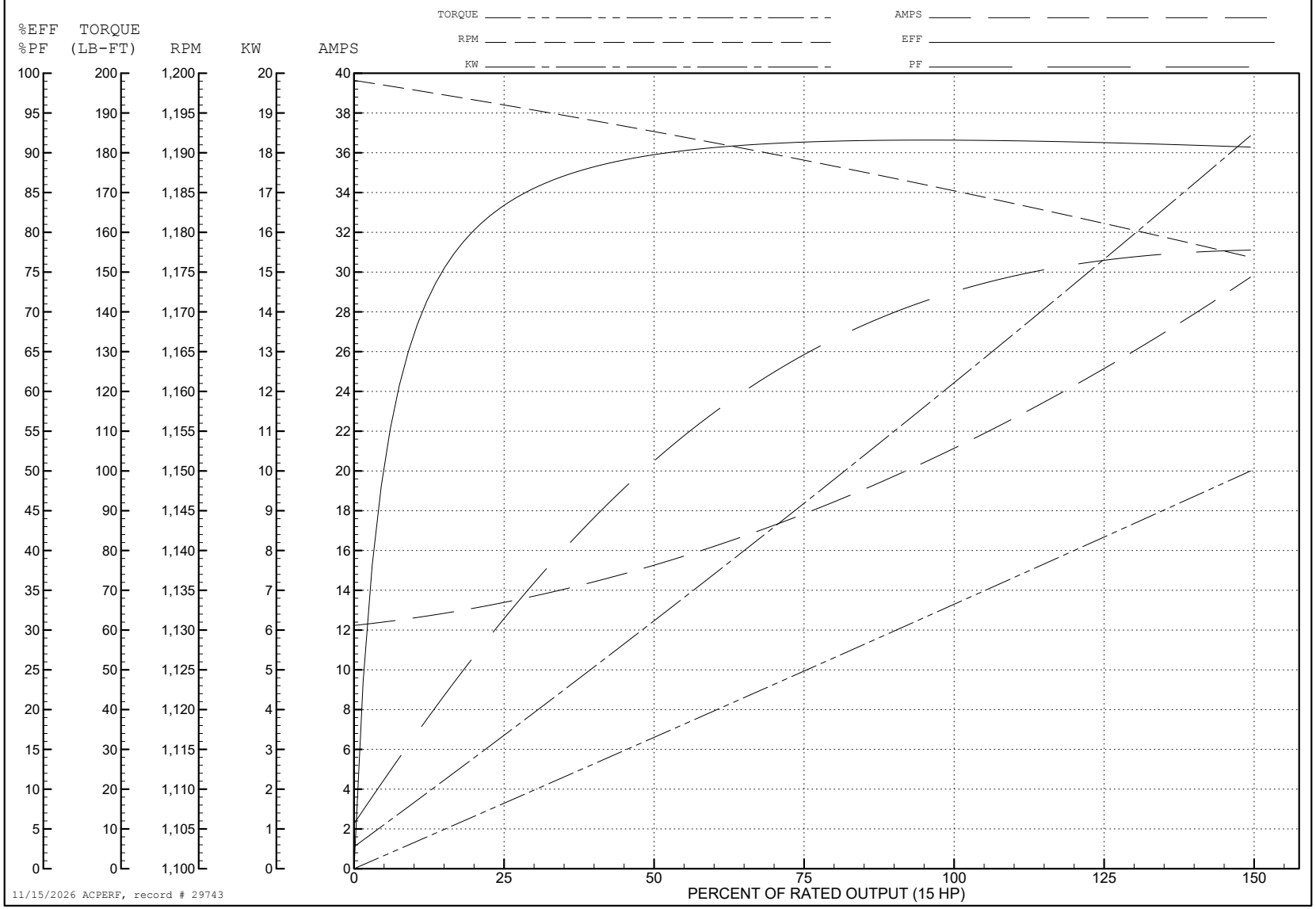
ABB Motors and Mechanical Inc.

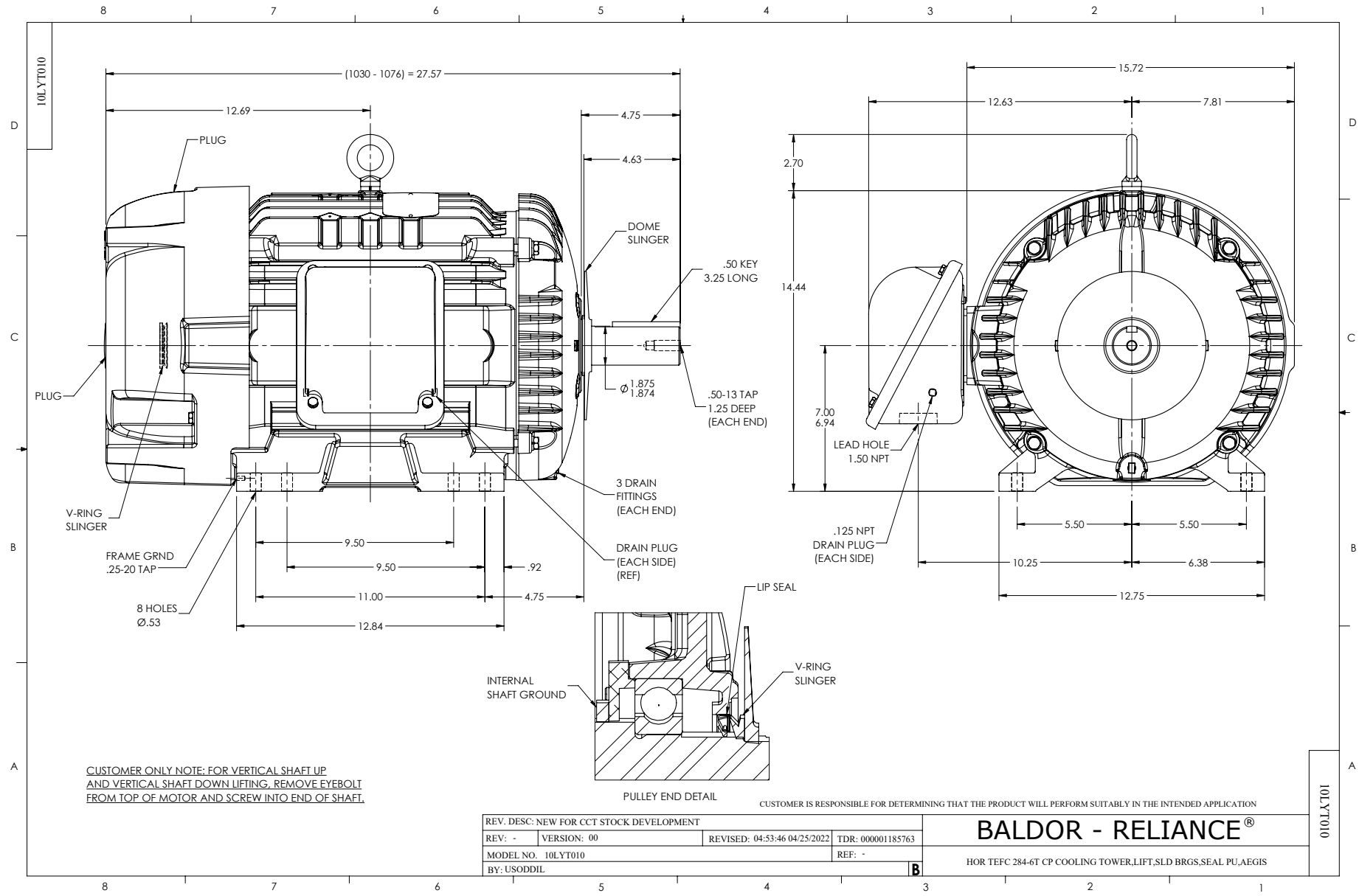
WINDING # 10WGY561

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

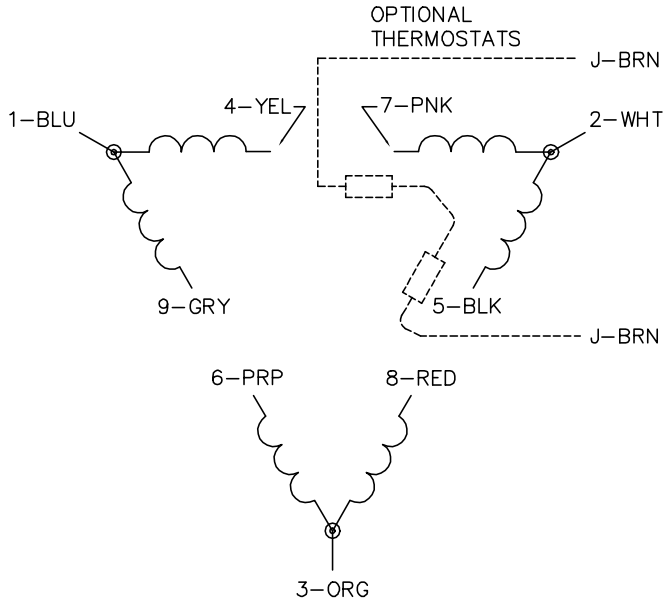
Typical performance - not guaranteed values.

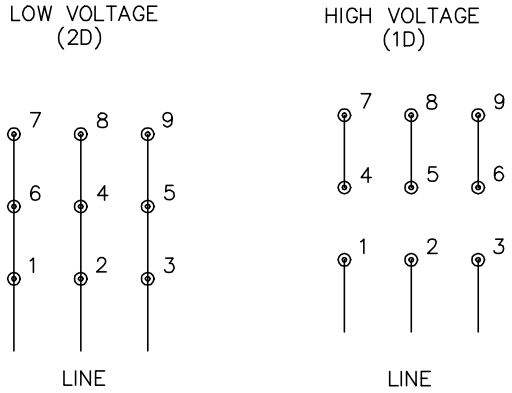
TORQUES(LB-FT): PO=213 PU=93.1 LR=114 LRA=144




10LYT010
(1030 - 1076) = 27.57
12.69
4.75
4.63
PLUG
DOME SLINGER
.50 KEY 3.25 LONG
PLUG
Ø 1.875 1.874
.50-13 TAP 1.25 DEEP (EACH END)
3 DRAIN FITTINGS (EACH END)
V-RING SLINGER
FRAME GRND .25-20 TAP
DRAIN PLUG (EACH SIDE) (REF)
9.50
9.50
.92
11.00
4.75
8 HOLES Ø.53
12.84
15.72
12.63
7.81
2.70
14.44
7.00 6.94
LEAD HOLE 1.50 NPT
.125 NPT DRAIN PLUG (EACH SIDE)
5.50
5.50
10.25
6.38
12.75
LIP SEAL
V-RING SLINGER
INTERNAL SHAFT GROUND
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW FOR CCT STOCK DEVELOPMENT
REV: - VERSION: 00 REVISED: 04:53:46 04/25/2022 TDR: 000001185763
MODEL NO. 10LYT010 REF: -
BY: USODDIL B
BALDOR - RELIANCE®
HOR TEFC 284-6T CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
10LYT010

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

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1