ABB BALDOR RELIANCE

# Customer information packet

## IDCSWDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 215TC |
| **Frame Material** | Stainless Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 10.000 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** | UR |
| | CSA |
| **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** | 12.500 A @ 460.0 V |
| | 25.000 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 12.5 a |

## Part Detail

| | |
|---|---|
| **Revision** | Z |
| **Type** | AC |
| **Mech. spec.** | 37H885 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGT857 |
| **Layout** | 37LYH885 |
| **Eff. date** | 06-24-2021 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 10-25-2006 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | K |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 6000 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3756M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 21.31 IN |
| **Power Factor** | 81 |
| **Product Family** | Wash Down Paint Free |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1770 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1608L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT NO** | IDCSWDM3714T | | | | | | | | |
| **SPEC.** | 37H885T857G1 | | | | | | | | |
| **FRAME** | 215TC | | **HP** | 10 TE | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **MAG CUR** | 11/5.5 | | | **FLA** | 25/12.5 | | | | |
| **RPM** | 1770 | | | **RPM MAX** | 6000 | | | | |
| **HZ** | 60 | **PH** | 3 | | **CLASS** | H | | | |
| **SER.F.** | 1.00 | **DES** | B | | **SL HZ** | 1 | | | |
| **NEMA-NOM-EFF** | 92.4 | **WK2** | 1.38 | | | | | | |
| **BLWR V** | | **PH** | | **HZ** | | **A** | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **DE BRG** | 6307 | | **ODE BRG** | 6206 | | | | | |
| **CC** | 010A | **SN** | | | | | | | |

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## AC Induction Motor Performance Data

Record # 37139
Typical performance - not guaranteed values

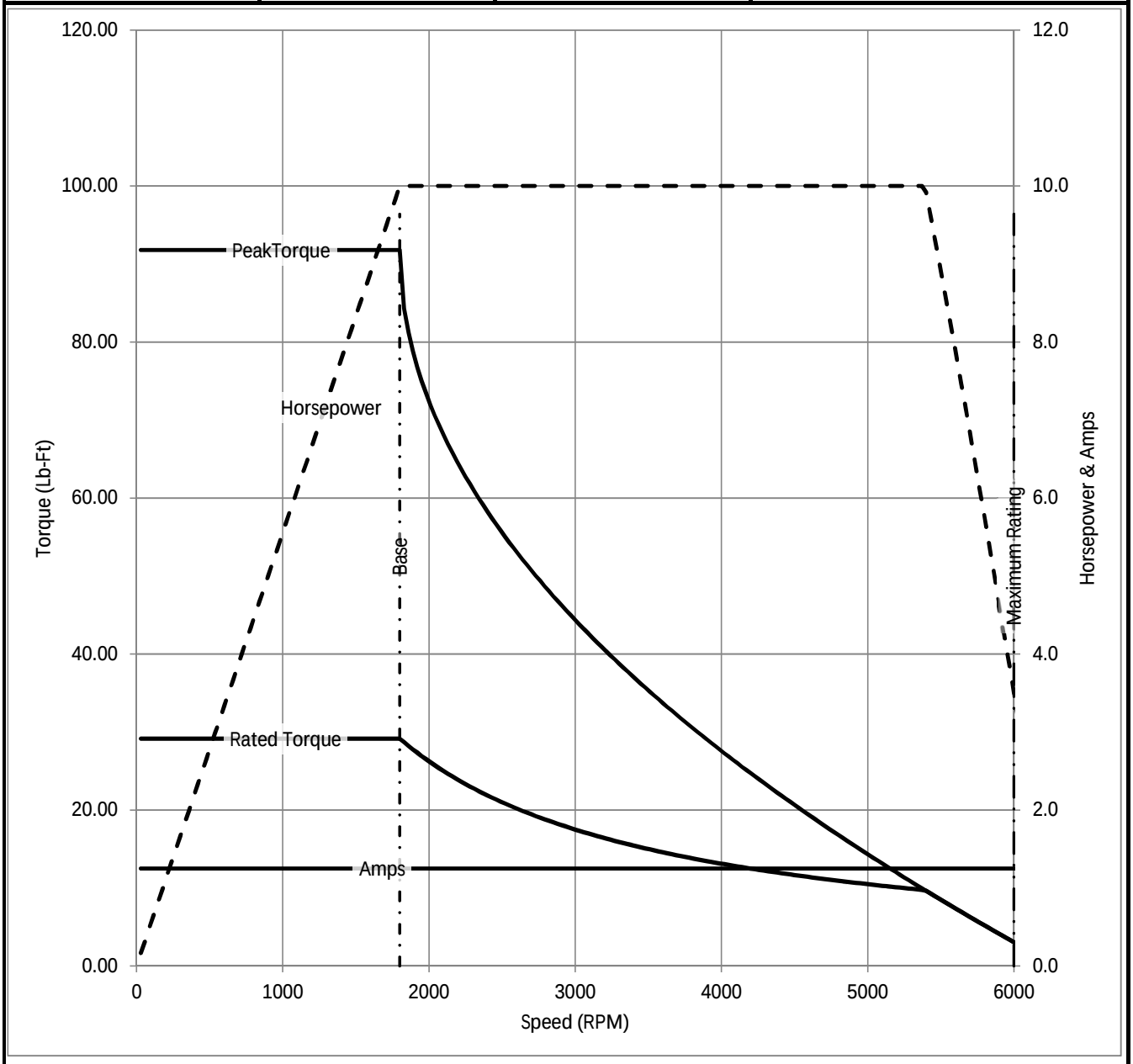
| **Winding:** 37WGT857 | **Type:** 3756M | **Enclosure:** TEFC |
|---|---|---|

| Nameplate Data | | | | General Characteristics at 460 V, 60 Hz: High Volt Connection | |
|---|---|---|---|---|---|
| Rated Output (HP) | 10 | | | Full Load Torque | 29.9 LB-FT |
| Volts | 230/460 | | | Start Configuration | DOL |
| Full Load Amps | 25/12.5 | | | Break Down Torque | 102 LB-FT |
| R.P.M. | 1770 | | | Pull-Up Torque | 53.6 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 74.2 LB-FT |
| NEMA Design Code | B | KVA Code | K | Starting Current | 105 Amps |
| Service Factor | 1 | | | No-load Current | 5.44 Amps |
| NEMA Nom. Eff. | 92.4 | P.F. | 81 | Line-line Res. @ 25°C. | 0.799 Ohms |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 76°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | |

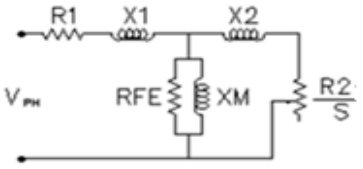
Load Characteristics at 460 Volts, 60 Hz, 10 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|---|---|---|---|---|---|---|---|
| Power Factor | 43 | 65 | 76 | 81 | 83 | 84 | |
| Efficiency | 88 | 92.6 | 93.3 | 93 | 92.4 | 91.5 | |
| Speed | 1793 | 1786 | 1778 | 1770 | 1762 | 1752 | |
| Line Amperes | 6.18 | 7.79 | 10 | 12.5 | 15.3 | 18.3 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Catalog | IDCSWDM3714T | NP VOLTS | 230/460 | ENCLOSURE | TEFC | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) | |
| FRAME | 215TC | NP AMPS | 25/12.5 | Base Volts | 460 | R1 0.423 | X1 1.876 |
| HP | 10 HP | DUTY | Cont | Base AMPS | 12.5 | R2 0.300 | X2 1.587 |
| BASE SPEED | 1800 | MAX SAFE RPM | 6000 | Slip Hz | 1.00 | | XM 44.849 |
| PHASE/HZ | 3/60 | AMB$^0$C/INSUL | 40/H | WK$^2$ (lb-ft$^2$) | 1.38 | | |




Remarks: Calculated Data



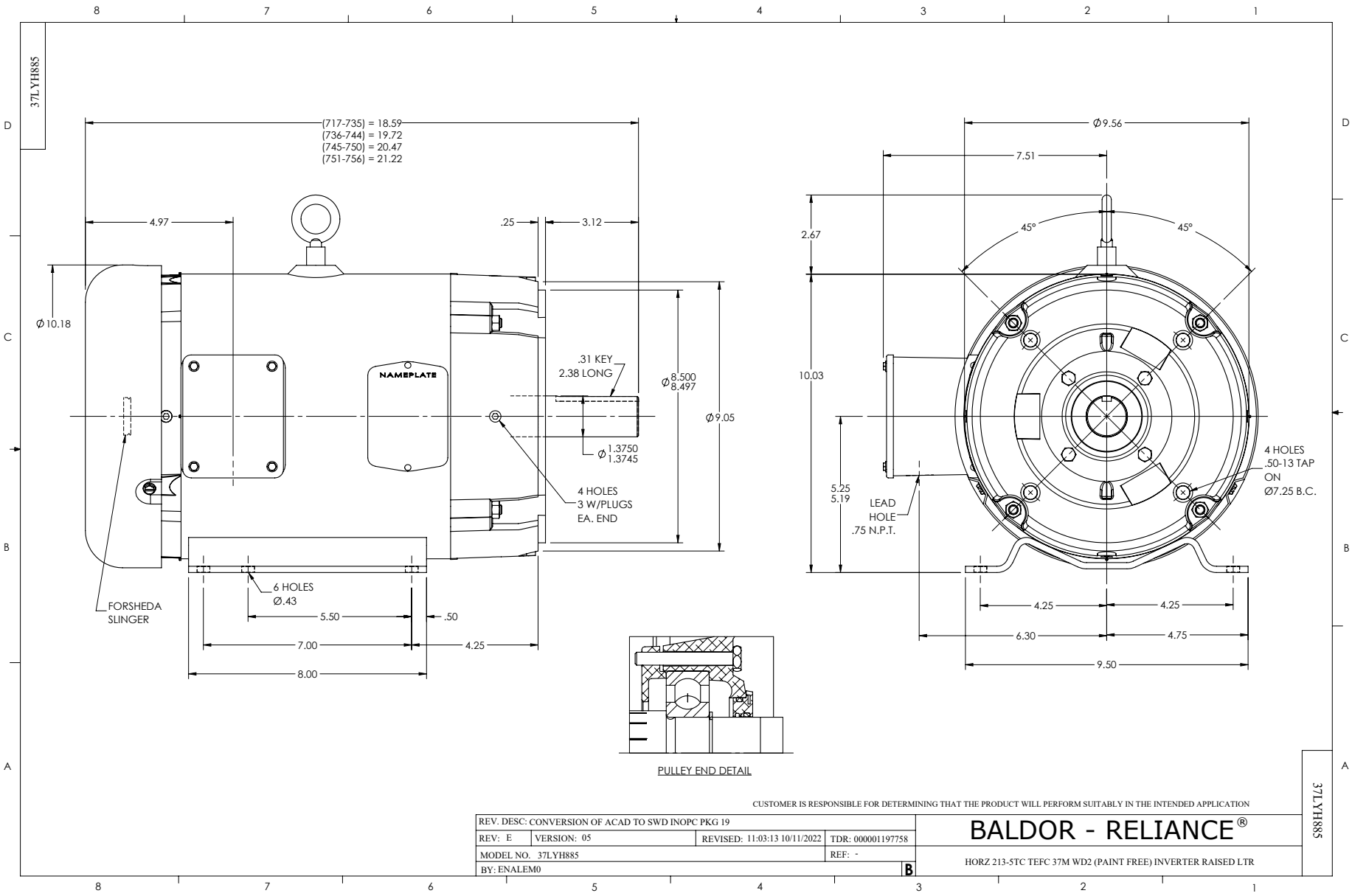

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DATE 3/6/2013

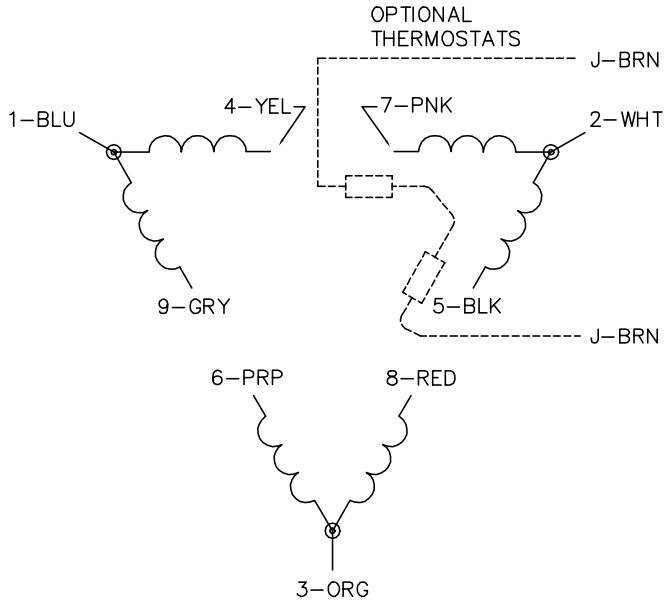
A-C MOTOR
PERFORMANCE CURVES

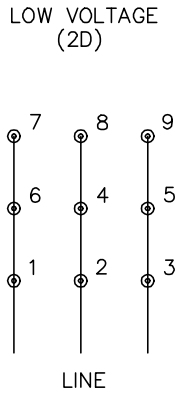
**37H885T857G1**

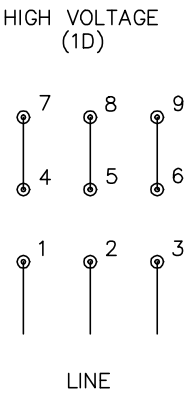
ISSUE DATE 3/6/2013


37LYH885
(717-735) = 18.59
(736-744) = 19.72
(745-750) = 20.47
(751-756) = 21.22
4.97
.25
3.12
Ø10.18
NAMEPLATE
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø1.3750
1.3745
4 HOLES
3 W/PLUGS
EA. END
FORSHEDA
SLINGER
6 HOLES
Ø.43
5.50
.50
7.00
4.25
8.00
Ø9.56
7.51
2.67
45°
45°
10.03
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.30
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: E
VERSION: 05
REVISED: 11:03:13 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH885
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5TC TEFC 37M WD2 (PAINT FREE) INVERTER RAISED LTR
37LYH885

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