ABB BALDOR RELIANCE

# Customer information packet

## ECTM2333T-5G

15HP, 1765RPM, 3PH, 60HZ, 254T, 0944M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 254T |
| **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** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>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** | 14.600 A @ 575.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | Tapped & Key |
| **Heater Indicator** | Heater Included, 115 V |
| **High Voltage Full Load Amps** | 14.6 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | H |
| **Type** | AC |
| **Mech. spec.** | 09N188 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGT124 |
| **Layout** | 09LYN188 |
| **Eff. date** | 09-11-2025 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#12 |
| **Proprietary** | False |
| **Created date** | 04-13-2022 |

| | |
|---|---|
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 3 @ 12 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0944M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 23.55 IN |
| **Power Factor** | 83 |
| **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** | 1.625 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1765 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.** | ECTM2333T-5G | | | | | | | | |
| **SPEC.** | 09N188T124G1 | | | | | | | | |
| **HP** | 15 | | | | | | | | |
| **VOLTS** | 575 | | | | | | | | |
| **AMP** | 14.6 | | | | | | | | |
| **RPM** | 1765 | | | | | | | | |
| **FRAME** | 254T | **HZ** | 60 | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | H | **DES** | A | | **CL** | F | |
| **NEMA-NOM-EFF** | 92.4 | **PF** | 83 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6309 | **ODE** | 6208 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| | INV DUTY 20:1 VT | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 47378
Typical performance - not guaranteed values

| **Winding:** 09WGT124-R001 | **Type:** 0944M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 15 | **Full Load Torque** | 44.5 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 14.6 | **Breakdown Torque** | 153 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 69.5 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 86.5 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 102 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 6.05 A |
| **NEMA Nom. Eff.** | 92.4 | **Power Factor** | 83 | **Line-line Res. @ 25ºC** | 0.874 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 54°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 66°C |
| | | | | **Locked-rotor Power Factor** | 33.1 |
| | | | | **Rotor inertia** | 1.92 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 15 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 45 | 69 | 78 | 83 | 85 | 87 | 86 |
| **Efficiency** | 88.1 | 92.3 | 92.6 | 92.4 | 91.5 | 90.5 | 92.2 |
| **Speed** | 1791 | 1783 | 1774 | 1765 | 1755 | 1743 | 1769 |
| **Line amperes** | 6.9 | 8.8 | 11.6 | 14.6 | 18.1 | 21.5 | 16.3 |

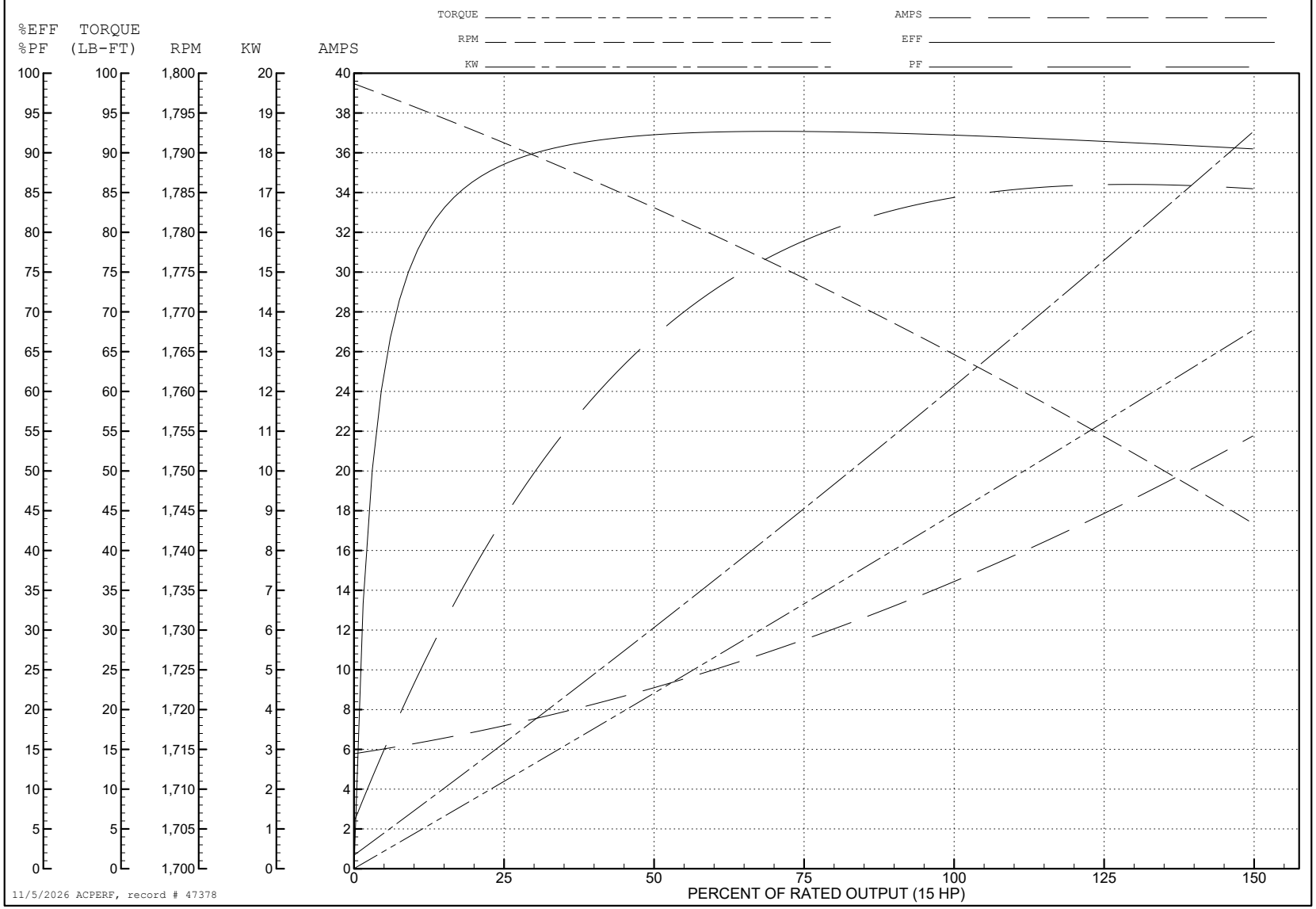
ABB Motors and Mechanical Inc.

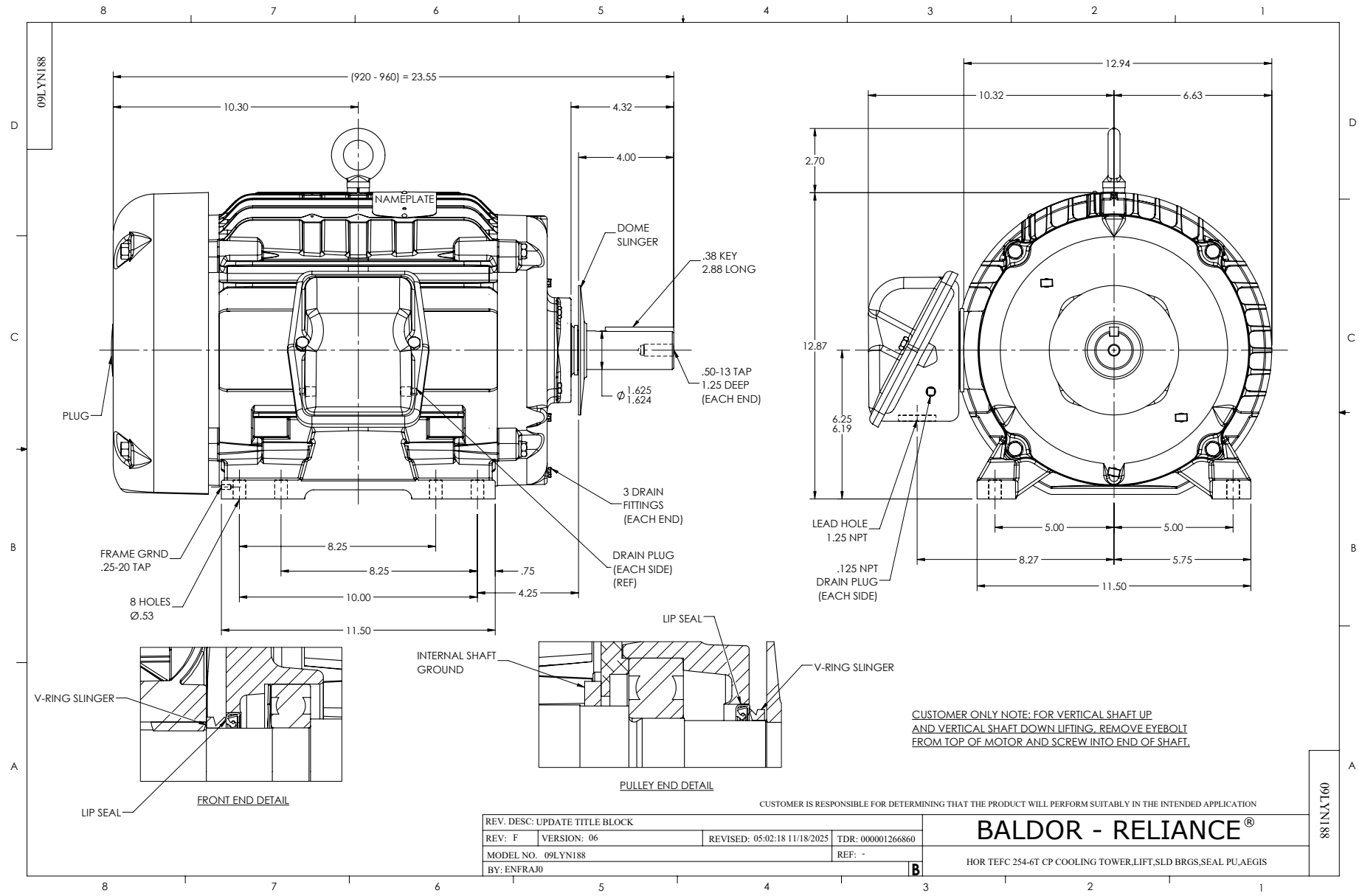
WINDING # 09WGT124

15 HP 3 PH 60 HZ 1765 RPM 575 V 0944M

Typical performance - not guaranteed values.

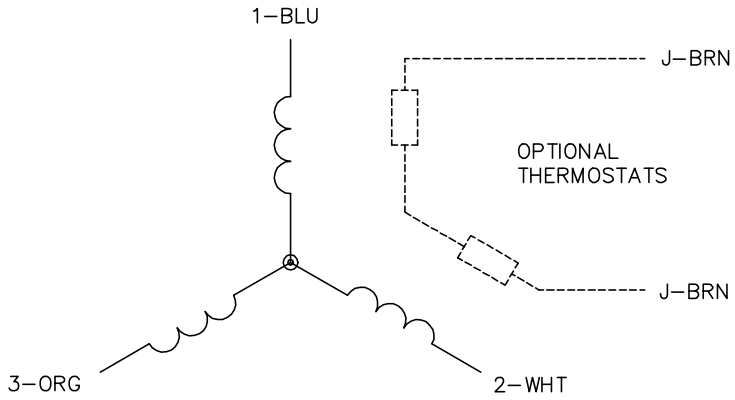
TORQUES(LB-FT): PO=153 PU=69.5 LR=86.5 LRA=102

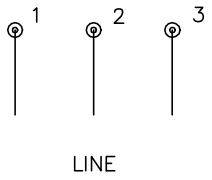



09LYN188
(920 - 960) = 23.55
10.30
4.32
4.00
NAMEPLATE
DOME SLINGER
.38 KEY
2.88 LONG
PLUG
.50-13 TAP
1.25 DEEP
(EACH END)
Ø 1.625
1.624
3 DRAIN
FITTINGS
(EACH END)
FRAME GRND
.25-20 TAP
8.25
8.25
.75
DRAIN PLUG
(EACH SIDE)
(REF)
8 HOLES
Ø.53
10.00
4.25
11.50
12.94
10.32
6.63
2.70
12.87
6.25
6.19
LEAD HOLE
1.25 NPT
5.00
5.00
8.27
5.75
.125 NPT
DRAIN PLUG
(EACH SIDE)
11.50
LIP SEAL
INTERNAL SHAFT
GROUND
V-RING SLINGER
V-RING SLINGER
LIP SEAL
FRONT END DETAIL
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: UPDATE TITLE BLOCK
REV: F
VERSION: 06
REVISED: 05:02:18 11/18/2025
TDR: 000001266860
MODEL NO. 09LYN188
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR TEFC 254-6T CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
881NAY160

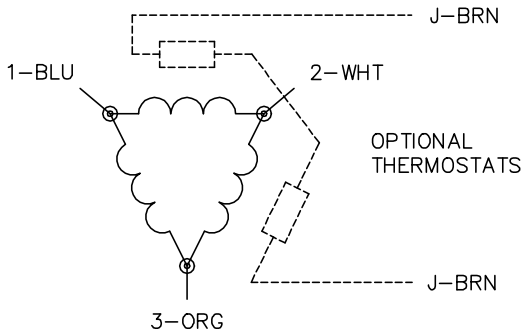
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

| | | | |
|---|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | | BALDOR - RELIANCE® |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 | |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 | 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED |
| MTL: – | | | SH 1 of 1 |