

ABB BALDOR RELIANCE III

Customer information packet

XEFRPM36604

60HP, 1800, 460V, HL364T, TEFC, F1

Specifications

| | |
|--------------------------------------|-------------------------|
| Enclosure | TEFC |
| Frame | HL364T |
| Frame Material | Exposed Laminations |
| Frequency | 60.00 Hz |
| Output @ Frequency | 60.000 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 460.0 V @ 60 HZ |
| Agency Approvals | CCSA US NEMA PREMIUM |
| Auxiliary Box | NO AUXILLARY BOX |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Constant Torque Speed Range | 1-60 |
| Current @ Voltage | 60.000 A @ 460.0 V |
| Duty Rating | CONT |
| Feedback Device | NO FEEDBACK |
| Frame Prefix | HL |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 60.0 a |
| Insulation Class | H |
| KVA Code | G |
| Motor Standards | NEMA |
| Mounting Arrangement | F1 |
| Product Family | Fan - Centrifugal |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | Standard |
| Service Factor | 1.15 |
| Shaft Diameter | 2.374 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Speed | 1800 rpm |

Part Detail

| | |
|---------------------|------------|
| Revision | G |
| Type | AC |
| Mech. spec. | |
| Base | |
| Status | PRD/A |
| Elec. spec. | LS7022A |
| Layout | 619707-001 |
| Eff. date | 04-23-2019 |
| CD Diagram | 422927-001 |
| Poles | 04 |
| Leads | |
| Proprietary | False |
| Created date | 06-03-2016 |

Thermal Device - Bearing

None

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613007QF

| | DUTY | HP | RPM | AMPS | VOLTS | HZ | | | | | |
|----------------------------------|---------------|------------------------------|--------------------|--------------|---------------|---------------------|--------------|---------------|---------------------|-------------|---|
| | CONT | 60 | 1800 | 60 | 460 | 60 | | | | | |
| CAT.NO. | XEFRPM36604 | | SPEC. NO. | | H36-A000-0001 | | | | | | |
| SER.NO. | | | FRAME SIZE | | HL364T | TYPE PSM | | | | | |
| AMB. | 40 | S.F. | 1.15 | ENCL. | TEFC | PH | 3 | DESIGN | B | CODE | G |
| NEMA NOM. EFF | 97 | GUARANTEED EFFICIENCY | | | 96.4 | POWER FACTOR | | 98.6 | INSUL. CLASS | | H |
| D.E. BRG. | 75BC02J30X | | O.D.E. BRG. | | 55BC02J30X | | | | | | |
| VPWM INVERTER DUTY @1.0SF | CHP HZ | 60-90 | | CT HZ | 1-60 | | VT HZ | 0-60 | | | |
| | XT | | | | | | | | | | |

000692000VY

MEAS OPEN CIRCUIT VOLTAGE

IS VOLTS AT RPM.

| | | | | | | |
|-------------|--------|-------------------------------------|--|-------|--------------|-------------|
| S.O. | FRAME | HP | TYPE | PHASE | HERTZ | RPM |
| -- | HL364T | 60 | PSM | 3 | 60 | 1800 |
| VOLTS | AMPS | DUTY | AMB ^o C | INSUL | S.F. | NEMA DESIGN |
| 460 | 58.8 | CONT | 40 | H | 1.15 | B |
| CODE LETTER | ENCL | ROTOR INERTIA (lb-ft ²) | STATOR RES. @ 25 ^o C OHMS (BETWEEN LINES) | | | |
| G | TEFC | 7.56 | .1169 | | TYPICAL DATA | |

PERFORMANCE

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---------|------|---------|------|----------------|--------------|
| NO LOAD | 0 | 25.1 | 1800 | 3.70 | N/A |
| 1/4 | 15.0 | 20.0 | 1800 | 74.6 | 94.0 |
| 2/4 | 30.0 | 30.6 | 1800 | 95.9 | 96.2 |
| 3/4 | 45.0 | 44.2 | 1800 | 98.4 | 96.8 |
| 4/4 | 60.0 | 58.8 | 1800 | 98.6 | 97.0 |
| 5/4 | 75.0 | 73.6 | 1800 | 98.1 | 97.0 |

SPEED TORQUE

| | RPM | TORQUE (% FULL LOAD) | TORQUE (lb-ft) | AMPERES |
|--------------|------|----------------------|----------------|---------|
| LOCKED ROTOR | 0 | 159 | 278.5 | 439.8 |
| PULL OUT | 1800 | 247 | 432.6 | 187.8 |
| FULL LOAD | 1800 | 100 | 175.2 | 58.8 |

THIS IS A PERMANENT MAGNET MOTOR
GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25^oC = 21.1 VOLTS PER 100 RPM

REMARKS:



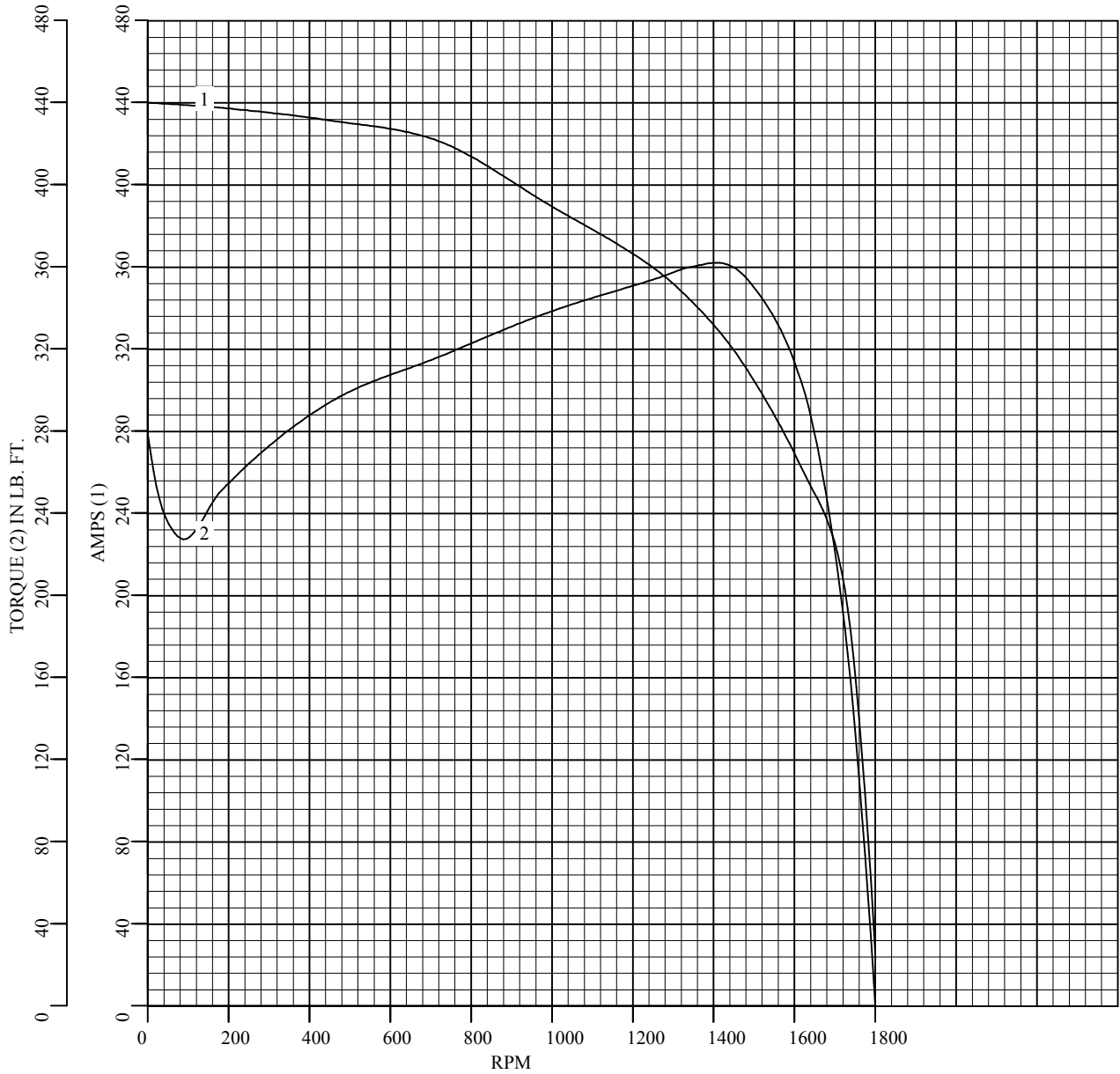
DR. BY CAD
CK. BY RFM
APP. BY RFM
DATE 05/25/2016

**LSPM MOTOR
PERFORMANCE LS7022A
DATA**

ISSUE DATE 05/25/2016

| | | | | | | | |
|-------|--------|-------|------|--------------------|------|---------------------------------------|-------|
| S.O. | -- | HERTZ | 60 | AMB ^o C | 40 | CODE LETTER | G |
| FRAME | HL364T | RPM | 1800 | INSUL | H | WK ² (lb-ft ²) | 7.56 |
| HP | 60 | VOLTS | 460 | S.F. | 1.15 | NEMA DESIGN | B |
| TYPE | PSM | AMPS | 58.8 | ENCL | TEFC | STATOR RES. @ 25 ^o C | .1169 |
| PHASE | 3 | DUTY | CONT | | | OHMS (BETWEEN LINES) | |

Amps & Torque vs. RPM During Acceleration



TYPICAL DATA



DR. BY CAD
 CK. BY RFM
 APP. BY RFM
 DATE 05/25/2016

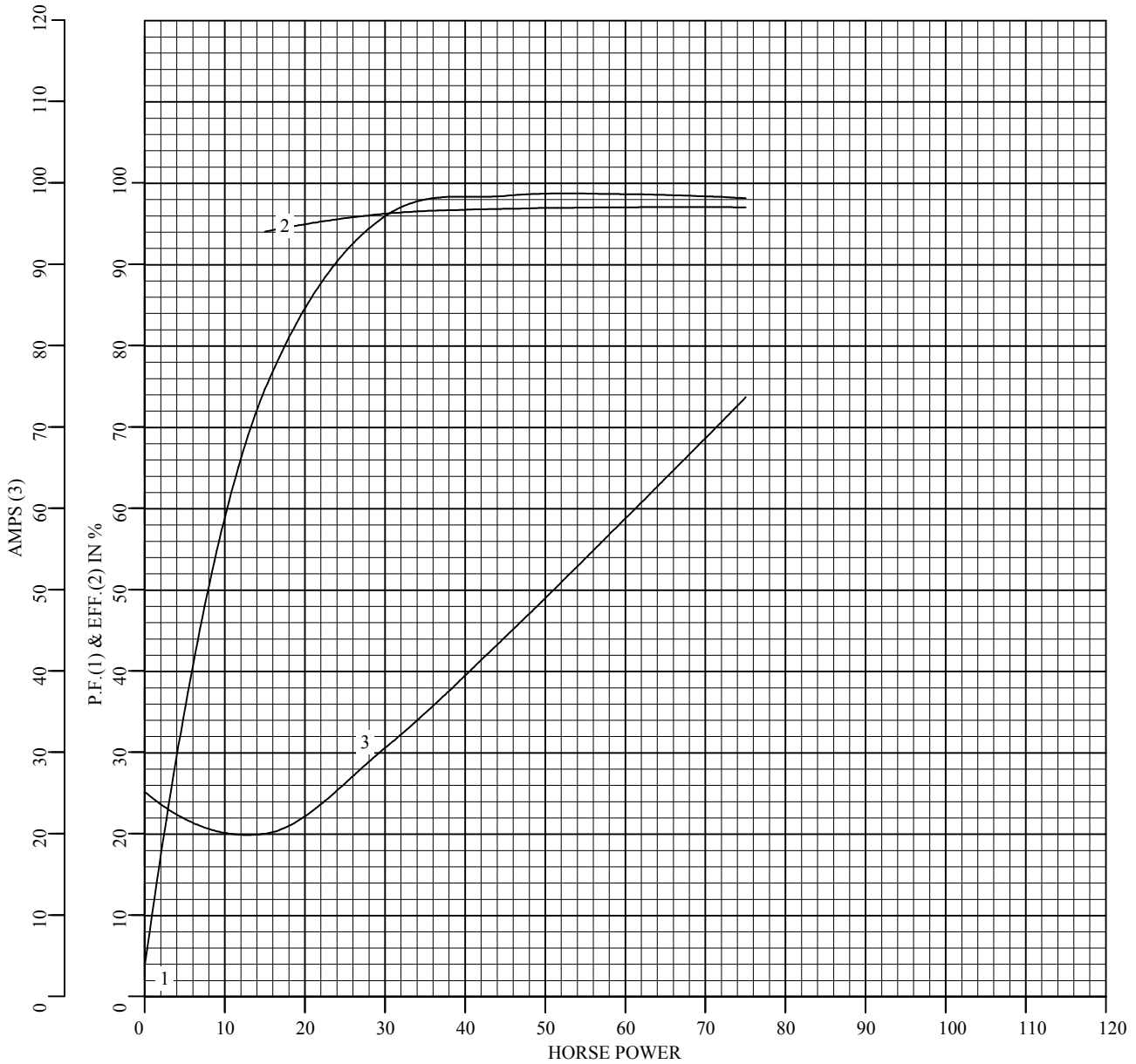
**LSPM MOTOR
 PERFORMANCE
 CURVES**

LS7022A

ISSUE DATE 05/25/2016 Page 7 of 10

| | | | | | | | |
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Performance Data vs. HP
At Synchronous Speed



TYPICAL DATA



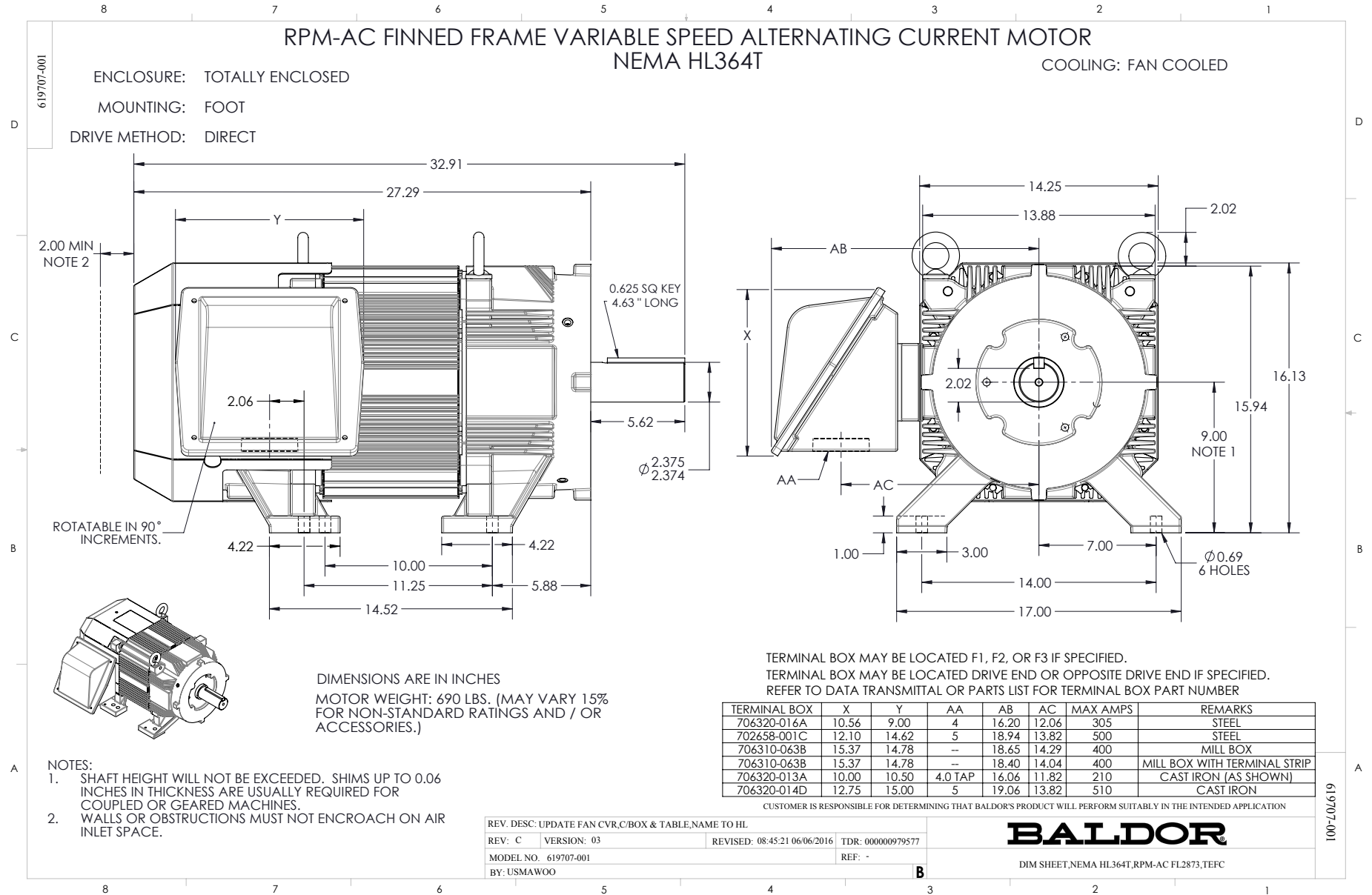
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**LSPM MOTOR
 PERFORMANCE
 CURVES**

LS7022A

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422927-001



NOTE:
DATA TO BE SIZED
SO THAT IT FITS INTO
MATERIAL DECAL
DIMENSIONS. MAKE
LETTERS & NUMBERS
AS LARGE AS POSSIBLE.

MATERIAL: CERAMATIC DGF-P4
PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS
AND LINES TO BE BLACK
ON WHITE BACKGROUND.

422927-001

| | | |
|---|------------------------------|------------------|
| REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE | | |
| REV. LTR: B | VERSION: 02 | TDR: 00000788708 |
| FILE: \RGG\00000\203 | REVISED: 08:09:29 03/04/2013 | |
| MTL: - | BY: RGGWT | |

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1