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# Customer information packet

## JL3513A

1.5HP, 3450RPM, 1PH, 60HZ, 56J, 3528L, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Enclosure                      | TEFC                                                         |
| Frame                          | 56J                                                          |
| Frame Material                 | Steel                                                        |
| Frequency                      | 60.00 Hz                                                     |
| Haz Area Class and Group       | None                                                         |
| Haz Area Division              | Not Applicable                                               |
| Motor Letter Type              | Cap Start, Induction Run                                     |
| Output @ Frequency             | 1.500 HP @ 60 HZ                                             |
| Phase                          | 1                                                            |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                             |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                           |
| Agency Approvals               | UR<br>CSA                                                    |
| Ambient Temperature            | 40 °C                                                        |
| Auxiliary Box                  | NO AUXILLARY BOX                                             |
| Auxiliary Box Lead Termination | None                                                         |
| Base Indicator                 | No Mounting                                                  |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                      |
| Blower                         | None                                                         |
| Current @ Voltage              | 16.600 A @ 115.0 V<br>8.300 A @ 230.0 V<br>8.600 A @ 208.0 V |
| Design Code                    | L                                                            |
| Drip Cover                     | No Drip Cover                                                |
| Duty Rating                    | CONT                                                         |
| Efficiency @ 100% Load         | 70.0 %                                                       |
| Electrically Isolated Bearing  | Not Electrically Isolated                                    |
| Feedback Device                | NO FEEDBACK                                                  |
| Front Face Code                | Standard                                                     |
| Front Shaft Indicator          | None                                                         |
| Heater Indicator               | No Heater                                                    |

## Part detail

|              |                    |
|--------------|--------------------|
| Revision     | BK                 |
| Type         | AC                 |
| Mech. spec.  | 35F083             |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | 35WG0525           |
| Layout       | 35LYF083           |
| Eff. date    | 10-10-2024         |
| CD Diagram   | CD0094             |
| Poles        | 02                 |
| Leads        | 4#16 A&J,1#14 #4TH |
| Proprietary  | False              |
| Created date | 06-21-2007         |

|                               |                            |
|-------------------------------|----------------------------|
| High Voltage Full Load Amps   | 8.3 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Not Inverter               |
| KVA Code                      | H                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Motor Lead Exit               | Ko Box                     |
| Motor Lead Quantity/Wire Size | 4 @ 16 AWG, A&J            |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3528L                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 2                          |
| Overall Length                | 13.74 IN                   |
| Power Factor                  | 82                         |
| Product Family                | General Purpose            |
| Pulley End Bearing Type       | Ball                       |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Ext Thread                 |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS COMPLIANT             |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 0.625 IN                   |
| Shaft Extension Location      | Pulley End                 |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Fixed Opposite Standard    |
| Shaft Slinger Indicator       | No Slinger                 |
| Speed                         | 3450 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Do Not Use Eve-Not Valid   |
| Vibration Sensor Indicator    | No Vibration Sensor        |
| Winding Thermal 1             | Automatic Thermal Overload |

|                            |      |
|----------------------------|------|
| Winding Thermal 1 Location | SB   |
| Winding Thermal 2          | None |

## Nameplate

| NP1257L      |              |      |    |      |  |    |    |    |   |   |  |
|--------------|--------------|------|----|------|--|----|----|----|---|---|--|
| CAT.NO.      | JL3513A      |      |    |      |  |    |    |    |   |   |  |
| SPEC.        | 35F83-525    |      |    |      |  |    |    |    |   |   |  |
| HP           | 1.5          |      |    |      |  |    |    |    |   |   |  |
| VOLTS        | 115/230      |      |    |      |  |    |    |    |   |   |  |
| AMP          | 16.6/8.3     |      |    |      |  |    |    |    |   |   |  |
| RPM          | 3450         |      |    |      |  |    |    |    |   |   |  |
| FRAME        | 56J          |      |    | HZ   |  | 60 |    | PH |   | 1 |  |
| SER.F.       | 1.00         | CODE | H  | DES  |  | L  | CL |    | F |   |  |
| NEMA-NOM-EFF | 70           | PF   | 82 |      |  |    |    |    |   |   |  |
| RATING       | 40C AMB-CONT |      |    |      |  |    |    |    |   |   |  |
| CC           |              |      |    |      |  |    |    |    |   |   |  |
| DE           | 6205         | ODE  |    | 6203 |  |    |    |    |   |   |  |
| ENCL         | TEFC         | SN   |    |      |  |    |    |    |   |   |  |
|              |              |      |    |      |  |    |    |    |   |   |  |

## AC Induction Motor Performance Data

Record # 61781

Typical performance - not guaranteed values

| Winding: 35WG0525-R005 |    |          | Type: 3528L                              |                     | Enclosure: TEFC         |                       |      |                            |
|------------------------|----|----------|------------------------------------------|---------------------|-------------------------|-----------------------|------|----------------------------|
| Nameplate Data         |    |          | 230 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |      |                            |
| Rated Output (HP)      |    | 1.5      | Full Load Torque                         |                     | 2.3 LB-FT               |                       |      |                            |
| Volts                  |    | 115/230  | Start Configuration                      |                     | direct on line          |                       |      |                            |
| Full Load Amps         |    | 16.6/8.3 | Breakdown Torque                         |                     | 5.6 LB-FT               |                       |      |                            |
| R.P.M.                 |    | 3450     | Pull-up Torque                           |                     | 4.2 LB-FT               |                       |      |                            |
| Hz                     | 60 | Phase    | 1                                        | Locked-rotor Torque |                         | 5.5 LB-FT             |      |                            |
| NEMA Design Code       |    | L        | KVA Code                                 | H                   | Starting Current        |                       | 42 A |                            |
| Service Factor (S.F.)  |    | 1        | No-load Current                          |                     | 3.8 A                   |                       |      |                            |
| NEMA Nom. Eff.         |    | 70       | Power Factor                             |                     | 82                      | Line-line Res. @ 25°C |      | 1.26 Ω A Ph<br>1.23 Ω B Ph |
| Rating - Duty          |    | 40C      | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 70°C |                            |

## Load Characteristics 230 V, 60 Hz, 1.5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 52   | 69   | 78   | 84   | 87   | 88   |
| Efficiency      | 54.9 | 67.7 | 71.6 | 72.4 | 71.2 | 68.4 |
| Speed           | 3568 | 3543 | 3518 | 3485 | 3452 | 3409 |
| Line amperes    | 4.4  | 5.4  | 6.6  | 8.3  | 9.9  | 12   |

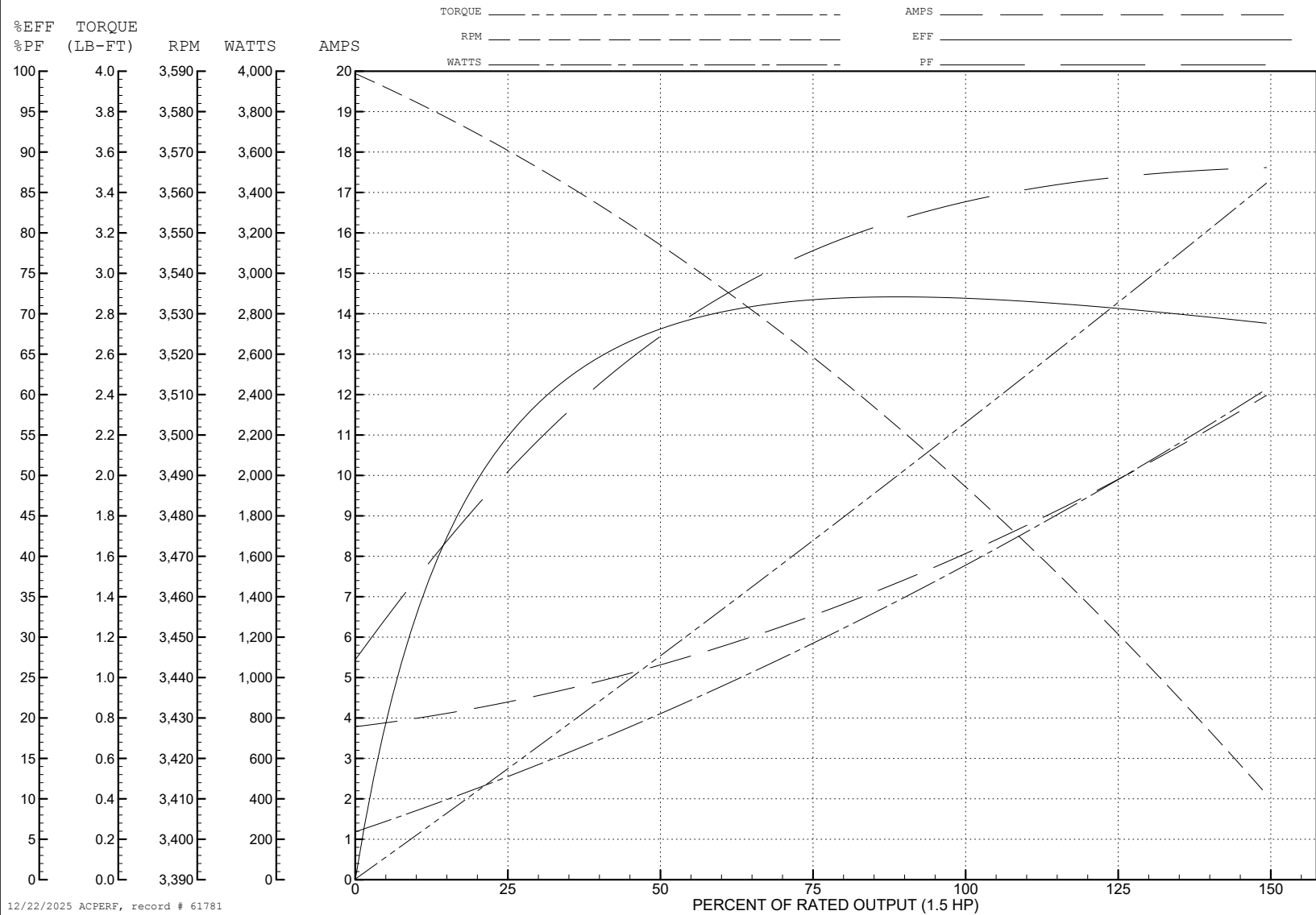
ABB Motors and Mechanical Inc.

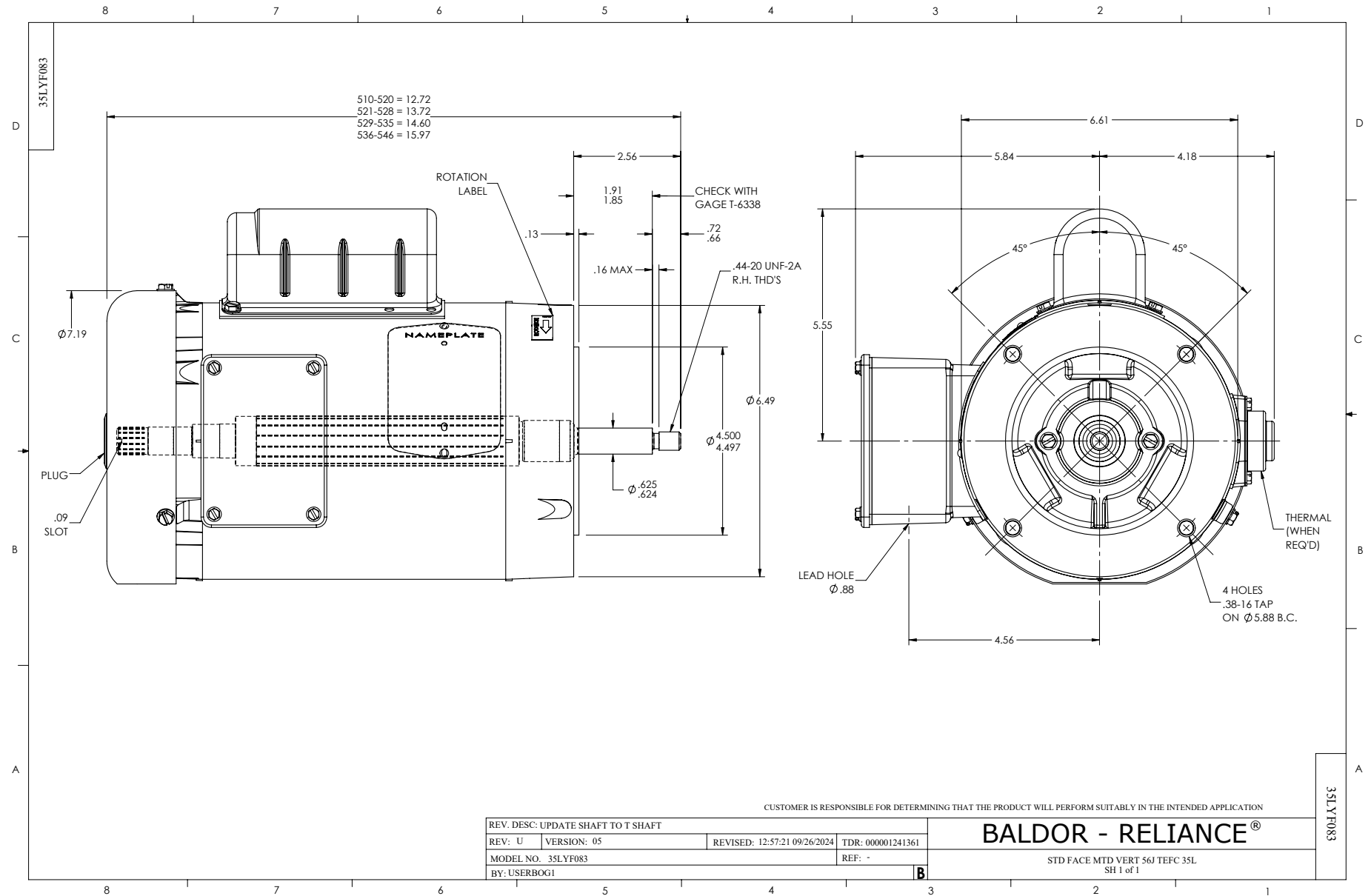
WINDING # 35WG0525

Typical performance - not guaranteed values.

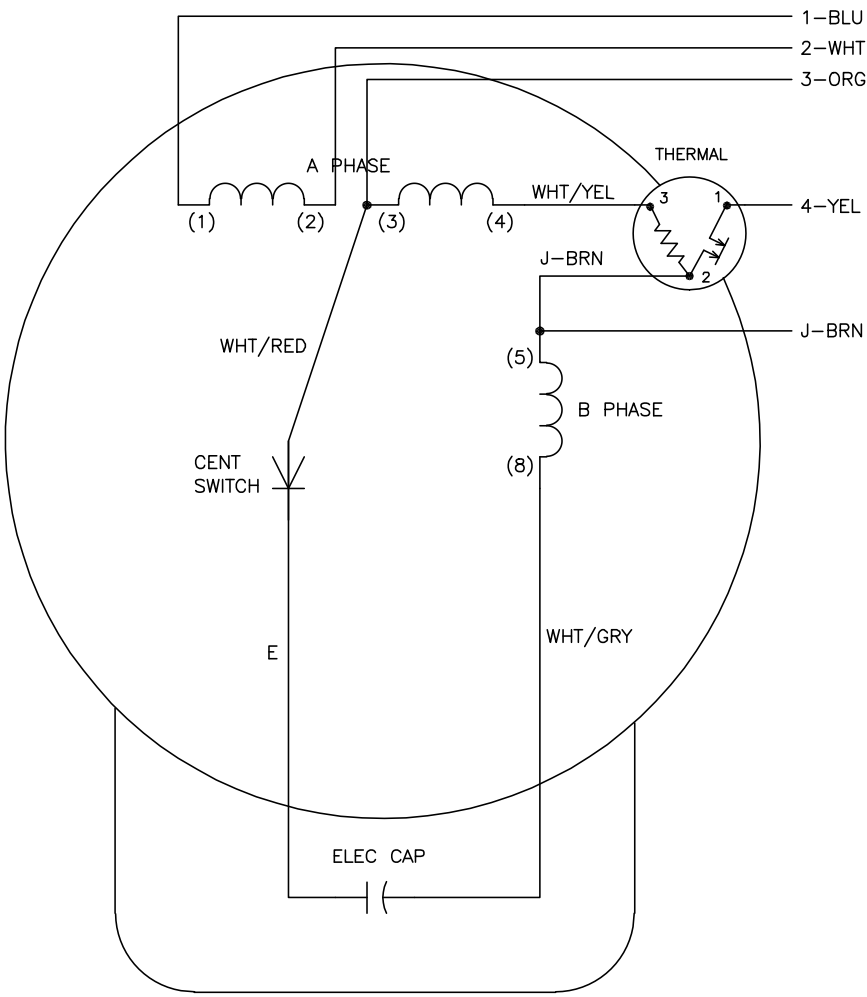
1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3528L

TORQUES (LB-FT): PO=5.6 PU=4.2 LR=5.5 LRA=42





CD0094



|      | LINE A | LINE B | JOIN | JOIN |
|------|--------|--------|------|------|
| HIGH | 1      | 4      | 2,3  | J    |
| LOW  | 1,3    | 4      | 2,J  | —    |

- NOTES:
1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
  2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0094

|                                                      |                              |                   |
|------------------------------------------------------|------------------------------|-------------------|
| REV. DESC: ADD B PH AMPS THRU HTR HVC TO DESCRIPTION |                              |                   |
| REV. LTR: F                                          | VERSION: 02                  | TDR: 000001258306 |
| FILE: \AAA\00007\476                                 | REVISED: 03:40:33 06/18/2025 | BY: ENBRIR0       |
| MTL: —                                               | © □                          |                   |

BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, B PH AMPS THRU HTR HVC, 5 LEAD  
SH 1 of 1