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# Customer information packet

## JXL05222

2HP, 3450RPM, 1PH, 60HZ, 56J, 3540L, XPFC, F1, N

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | XPFC                                                           |
| Frame                          | 56J                                                            |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                                          |
| Haz Area Division              | Division I                                                     |
| Motor Letter Type              | Cap Start, Induction Run                                       |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                               |
| Phase                          | 1                                                              |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>115.0 V @ 60 HZ<br>208.0 V @ 60 HZ          |
| Agency Approvals               | CSA<br>UL                                                      |
| 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              | 10.500 A @ 230.0 V<br>11.500 A @ 208.0 V<br>21.000 A @ 115.0 V |
| Design Code                    | L                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 75.5 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Haz Area Temp Code             | T3C                                                            |
| Heater Indicator               | No Heater                                                      |

## Part detail

|              |                         |
|--------------|-------------------------|
| Revision     | D                       |
| Type         | AC                      |
| Mech. spec.  |                         |
| Base         |                         |
| Status       | PRD/A                   |
| Elec. spec.  | 35WGA0039               |
| Layout       | 35LYE790                |
| Eff. date    | 02-22-2024              |
| CD Diagram   | CD0001                  |
| Poles        | 02/02                   |
| Leads        | 4#14 A PHAS,2#18 B PHAS |
| Proprietary  | False                   |
| Created date | 04-14-2021              |

|                             |                            |
|-----------------------------|----------------------------|
| High Voltage Full Load Amps | 10.5 a                     |
| Insulation Class            | F                          |
| Inverter Code               | Not Inverter               |
| IP Rating                   | NONE                       |
| KVA Code                    | J                          |
| Lifting Lugs                | No Lifting Lugs            |
| Locked Bearing Indicator    | Locked Bearing             |
| Motor Lead Termination      | Flying Leads               |
| Motor Standards             | NEMA                       |
| Motor Type                  | 3540L                      |
| Mounting Arrangement        | F1                         |
| Number of Poles             | 2                          |
| Overall Length              | 17.94 IN                   |
| Power Factor                | 77                         |
| Product Family              | General Purpose            |
| Pulley Face Code            | C-Face                     |
| Rodent Screen               | None                       |
| Service Factor              | 1.15                       |
| Shaft Diameter              | 0.625 IN                   |
| Shaft Ground Indicator      | No Shaft Grounding         |
| Shaft Rotation              | Reversible                 |
| Speed                       | 3450 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

| NP1426XPSL |                        |              |   |      |     |   |  |      |  |
|------------|------------------------|--------------|---|------|-----|---|--|------|--|
| NO.        |                        | CC           |   |      |     |   |  |      |  |
| SER.       |                        |              |   |      |     |   |  |      |  |
| SPEC.      | 35-0000-1104           |              |   |      |     |   |  |      |  |
| CAT.NO.    | JXL05222               |              |   |      |     |   |  |      |  |
| HP         | 2                      | T. CODE      |   |      | T3C |   |  |      |  |
| VOLTS      | 115/208-230            |              |   |      |     |   |  |      |  |
| AMPS       | 21/11.5-10.5           |              |   |      |     |   |  |      |  |
| RPM        | 3450                   |              |   |      |     |   |  |      |  |
| HZ         | 60                     | PH           | 1 | CL   | F   |   |  |      |  |
| SER.F.     | 1.15                   | DES          | L | CODE |     | J |  |      |  |
| RATING     | 40C AMB-CONT           |              |   |      |     |   |  |      |  |
| FRAME      | 56J                    | NEMA-NOM-EFF |   |      |     |   |  | 75.5 |  |
|            | PF                     | 77           |   |      |     |   |  |      |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |              |   |      |     |   |  |      |  |

## AC Induction Motor Performance Data

Record # 23177

Typical performance - not guaranteed values

| Winding: 35WGR422-R001 |  |             | Type: 3540L                              |  | Enclosure: TEFC |                         |                            |
|------------------------|--|-------------|------------------------------------------|--|-----------------|-------------------------|----------------------------|
| Nameplate Data         |  |             | 230 V, 60 Hz:<br>High Voltage Connection |  |                 |                         |                            |
| Rated Output (HP)      |  | 2           | Full Load Torque                         |  | 3 LB-FT         |                         |                            |
| Volts                  |  | 115/208-230 | Start Configuration                      |  | direct on line  |                         |                            |
| Full Load Amps         |  | 22/11.5-11  | Breakdown Torque                         |  | 10.2 LB-FT      |                         |                            |
| R.P.M.                 |  | 3450        | Pull-up Torque                           |  | 3.28 LB-FT      |                         |                            |
| Hz                     |  | 60          | Phase                                    |  | 1               | Locked-rotor Torque     | 5.58 LB-FT                 |
| NEMA Design Code       |  | L           | KVA Code                                 |  | L               | Starting Current        | 77.3 A                     |
| Service Factor (S.F.)  |  | 1.15        |                                          |  |                 | No-load Current         | 6.3 A                      |
| NEMA Nom. Eff.         |  | 75.5        | Power Factor                             |  | 77              | Line-line Res. @ 25°C   | 0.76 Ω A Ph<br>1.28 Ω B Ph |
| Rating - Duty          |  | 40C         | AMB-CONT                                 |  |                 | Temp. Rise @ Rated Load | 68°C                       |
| S.F. Amps              |  |             |                                          |  |                 | Temp. Rise @ S.F. Load  | 77°C                       |

## Load Characteristics 230 V, 60 Hz, 2 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F.  |
|-----------------|------|------|------|------|------|------|-------|
| Power Factor    | 41   | 58   | 70   | 77   | 81   | 84   | 79    |
| Efficiency      | 59.1 | 70.6 | 74.3 | 76.2 | 76.3 | 74.8 | 76.3  |
| Speed           | 3570 | 3550 | 3528 | 3504 | 3476 | 3444 | 3487  |
| Line amperes    | 6.9  | 8    | 9.4  | 11.1 | 13   | 15.2 | 12.24 |

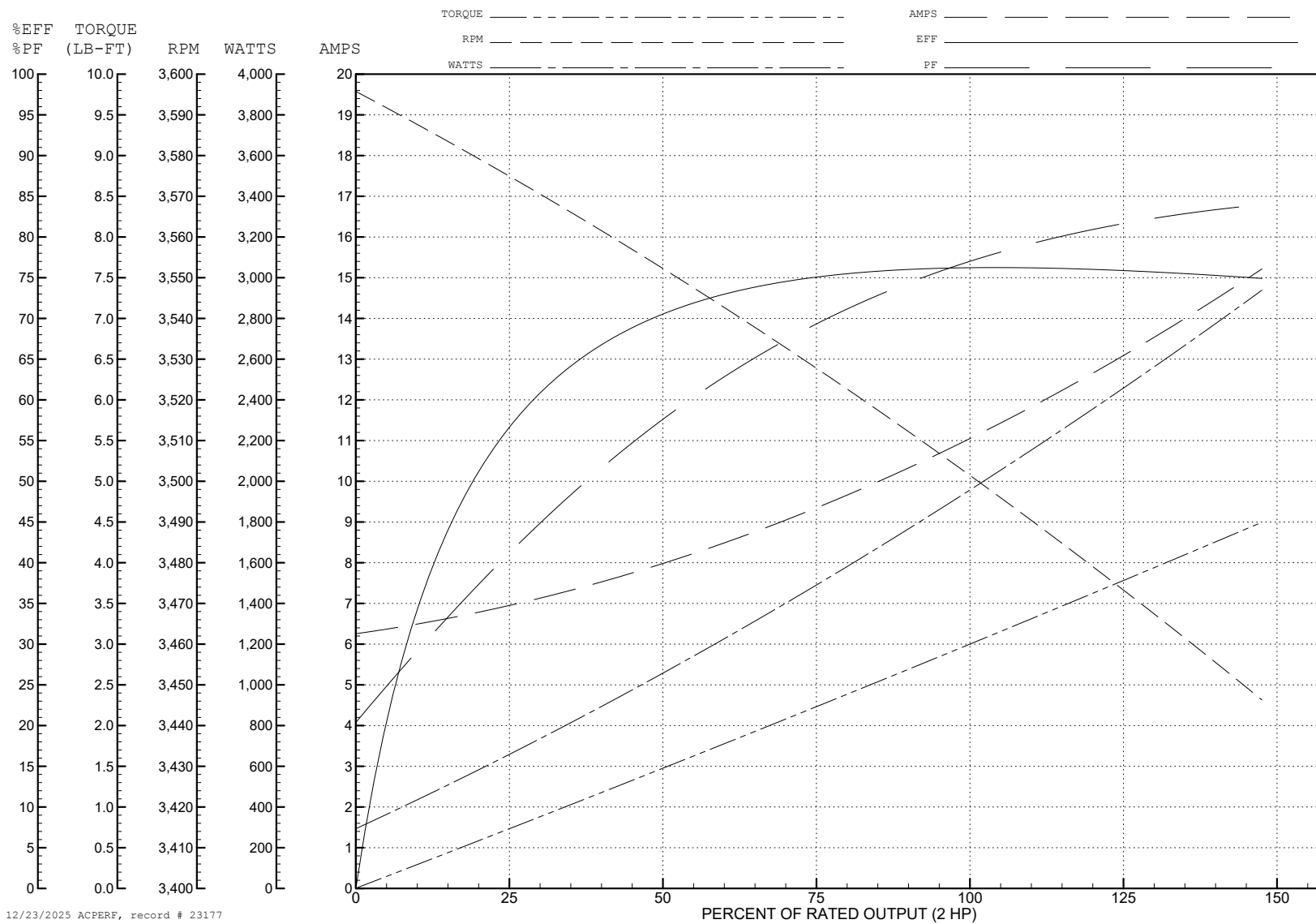
ABB Motors and Mechanical Inc.

WINDING # 35WGR422

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 230 V 3540L

TORQUES (LB-FT): PO=10.2 PU=3.28 LR=5.58 LRA=77.3



## AC Induction Motor Performance Data

Record # 88045

Typical performance - not guaranteed values

| Winding: 35WGA0039-R001 |  |                   | Type: 3540L |                                         | Enclosure: XPFC |                             |
|-------------------------|--|-------------------|-------------|-----------------------------------------|-----------------|-----------------------------|
| Nameplate Data          |  |                   |             | 115 V, 60 Hz:<br>Low Voltage Connection |                 |                             |
| Rated Output (HP)       |  | 2                 |             | Full Load Torque                        |                 | 3.01 LB-FT                  |
| Volts                   |  | 115/208-230       |             | Start Configuration                     |                 | Unknown                     |
| Full Load Amps          |  | 21/11.5-10.5      |             | Breakdown Torque                        |                 | 8.8 LB-FT                   |
| R.P.M.                  |  | 3450              |             | Pull-up Torque                          |                 | 3 LB-FT                     |
| Hz                      |  | 60 Phase          |             | Locked-rotor Torque                     |                 | 6.3 LB-FT                   |
| NEMA Design Code        |  | L KVA Code        |             | Starting Current                        |                 | 131 A                       |
| Service Factor (S.F.)   |  | 1.15              |             | No-load Current                         |                 | 9.68 A                      |
| NEMA Nom. Eff.          |  | 75.5 Power Factor |             | Line-line Res. @ 25°C                   |                 | 0.192 Ω A Ph<br>1.53 Ω B Ph |
| Rating - Duty           |  | 40C AMB-CONT      |             | Temp. Rise @ Rated Load                 |                 | 59°C                        |
| S.F. Amps               |  | 23.3/12.9-11.6    |             | Temp. Rise @ S.F. Load                  |                 | 69°C                        |
|                         |  |                   |             | Locked-rotor Power Factor               |                 | 68.4                        |
|                         |  |                   |             | Rotor inertia                           |                 | 0.111 lb-ft²                |

## Load Characteristics 115 V, 60 Hz, 2 HP

| % of Rated Load | 25    | 50    | 75    | 100  | 125   | 150   | S.F. |
|-----------------|-------|-------|-------|------|-------|-------|------|
| Power Factor    | 46    | 64    | 75    | 80   | 83    | 85    | 82   |
| Efficiency      | 64.7  | 74.6  | 77.1  | 78.2 | 77.6  | 75.4  | 77.8 |
| Speed           | 3568  | 3545  | 3520  | 3492 | 3459  | 3421  | 3472 |
| Line amperes    | 11.18 | 13.77 | 16.94 | 20.7 | 24.86 | 29.71 | 23.2 |

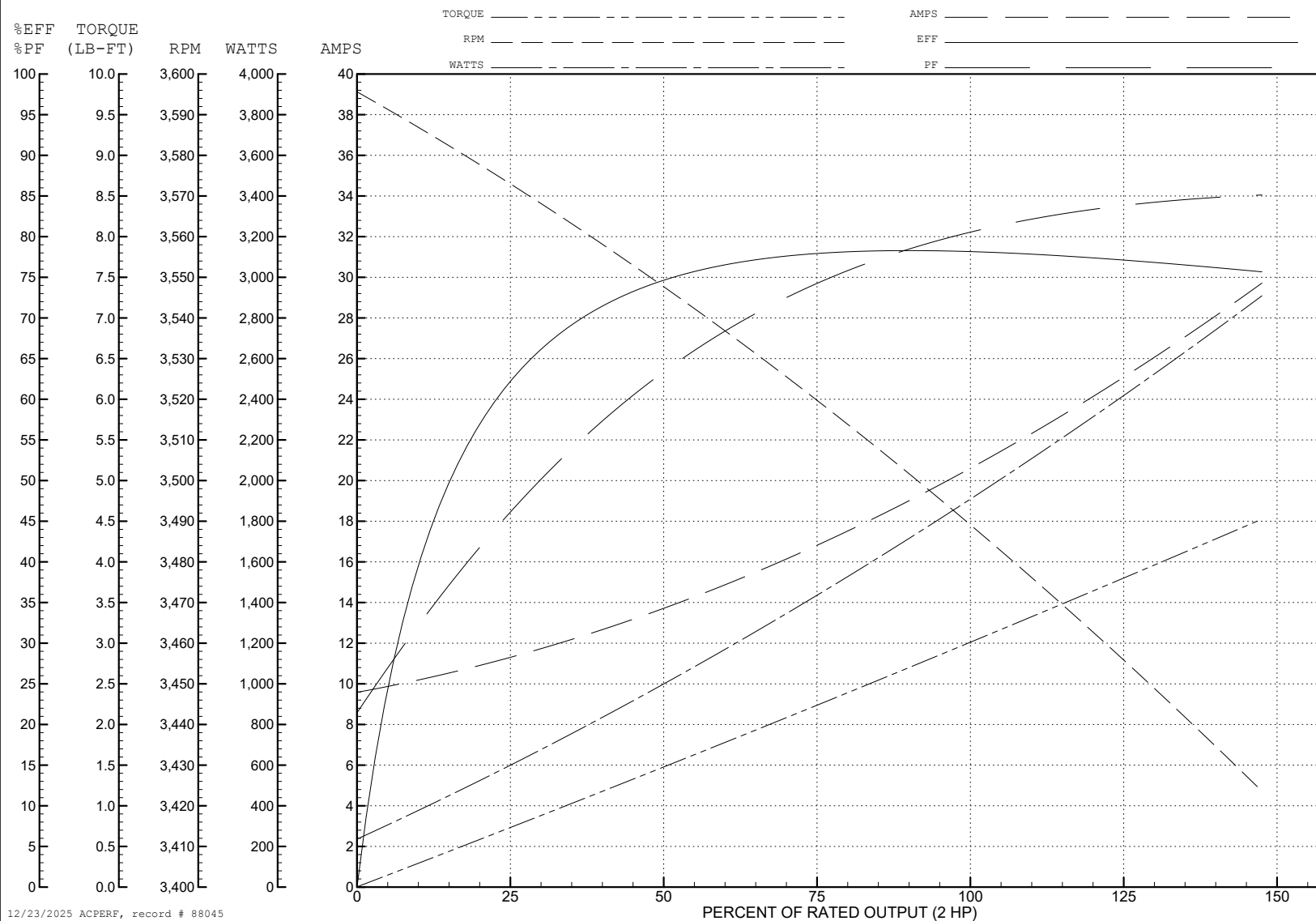
ABB Motors and Mechanical Inc.

WINDING # 35WGA0039

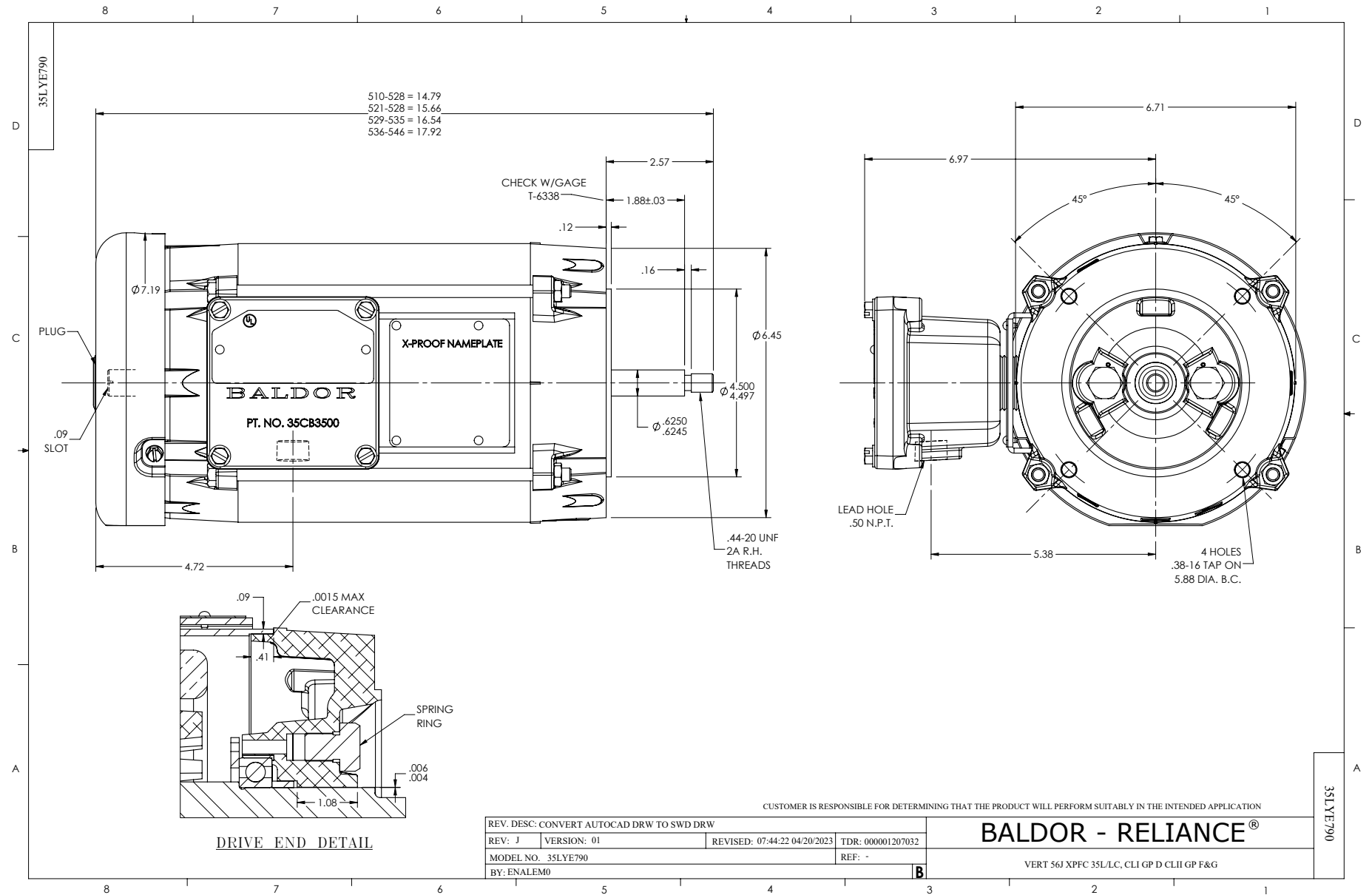
Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 115 V 3540L

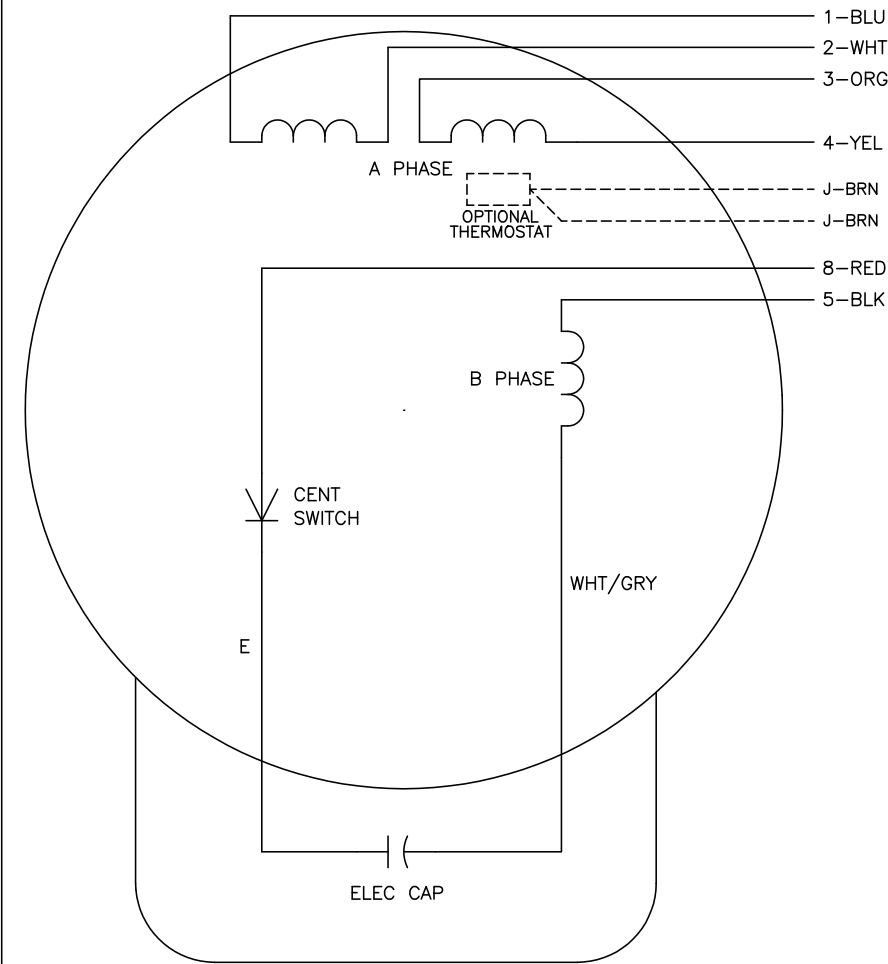
TORQUES (LB-FT) : PO=8.8 PU=3 LR=6.3 LRA=131







CD0001



|          | LINE A | LINE B | JOIN  |
|----------|--------|--------|-------|
| HIGH STD | 1      | 4,5    | 2,3,8 |
| HIGH OPP | 1      | 4,8    | 2,3,5 |
| LOW STD  | 1,3,8  | 2,4,5  | -     |
| LOW OPP  | 1,3,5  | 2,4,8  | -     |

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
  2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
  3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                        |              |
|-------------------------------------------|---------|------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                        |              |
| REV. LTR: D                               | BY: JLP | REVISED: 04/08/99 1:16 | TDR: 0178636 |
| 100000                                    |         | FILE: AAA00007405      | MDL: -       |
|                                           |         | MTL: -                 |              |

BALDOR ELECTRIC Co.

TYPE L, DV, REV, 6 LEADS

CD0001