

# ABB BALDOR RELIANCE III

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## Customer information packet

### L3705

3HP, 1725RPM, 1PH, 60HZ, 215, 3735LC, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 215                                                            |
| <b>Frame Material</b>                 | Steel                                                          |
| <b>Frequency</b>                      | 60.00 Hz                                                       |
| <b>Haz Area Class and Group</b>       | None                                                           |
| <b>Haz Area Division</b>              | Not Applicable                                                 |
| <b>Motor Letter Type</b>              | Cap Start, Cap Run                                             |
| <b>Output @ Frequency</b>             | 3.000 HP @ 60 HZ                                               |
| <b>Phase</b>                          | 1                                                              |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CSA<br>UR                                                      |
| <b>Ambient Temperature</b>            | 40 °C                                                          |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                               |
| <b>Auxiliary Box Lead Termination</b> | None                                                           |
| <b>Base Indicator</b>                 | Rigid                                                          |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                        |
| <b>Blower</b>                         | None                                                           |
| <b>Current @ Voltage</b>              | 30.000 A @ 115.0 V<br>15.000 A @ 208.0 V<br>14.000 A @ 230.0 V |
| <b>Design Code</b>                    | L                                                              |
| <b>Drip Cover</b>                     | No Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                           |
| <b>Efficiency @ 100% Load</b>         | 80.0 %                                                         |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                      |
| <b>Feedback Device</b>                | NO FEEDBACK                                                    |
| <b>Front Face Code</b>                | Standard                                                       |
| <b>Front Shaft Indicator</b>          | None                                                           |
| <b>Heater Indicator</b>               | No Heater                                                      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AN         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37C011     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGX229   |
| <b>Layout</b>       | 37LYC011   |
| <b>Eff. date</b>    | 05-10-2024 |
| <b>CD Diagram</b>   | CD0076     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 8#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-01-0001 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 14.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Not Inverter          |
| KVA Code                      | K                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 8 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3735LC                |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 17.51 IN              |
| Power Factor                  | 90                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.125 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1725 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**

| NP1256L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | L3705        |      |     |      |   |       |    |   |  |
| SPEC.        | 37C11X229    |      |     |      |   |       |    |   |  |
| HP           | 3            |      |     |      |   |       |    |   |  |
| VOLTS        | 115/230      |      |     |      |   |       |    |   |  |
| AMP          | 30/14        |      |     |      |   |       |    |   |  |
| RPM          | 1725         |      |     |      |   |       |    |   |  |
| FRAME        | 215          |      | HZ  | 60   |   |       | PH | 1 |  |
| SER.F.       | 1.15         | CODE | K   | DES  | L | CLASS | F  |   |  |
| NEMA-NOM-EFF | 80           | PF   | 90  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6307         |      | ODE | 6206 |   |       |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |       |    |   |  |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 37-3301     | C FACE KIT  | P1         |

**AC Induction Motor Performance Data**

Record # 61379

Typical performance - not guaranteed values

| Winding: 37WGX229-R005 |    |              | Type: 3735LC                             |                         | Enclosure: TEFC  |                       |       |                             |
|------------------------|----|--------------|------------------------------------------|-------------------------|------------------|-----------------------|-------|-----------------------------|
| Nameplate Data         |    |              | 230 V, 60 Hz:<br>High Voltage Connection |                         |                  |                       |       |                             |
| Rated Output (HP)      |    | 3            | Full Load Torque                         |                         | 9.1 LB-FT        |                       |       |                             |
| Volts                  |    | 115/230      | Start Configuration                      |                         | direct on line   |                       |       |                             |
| Full Load Amps         |    | 30/14        | Breakdown Torque                         |                         | 24 LB-FT         |                       |       |                             |
| R.P.M.                 |    | 1725         | Pull-up Torque                           |                         | 20 LB-FT         |                       |       |                             |
| Hz                     | 60 | Phase        | 1                                        | Locked-rotor Torque     |                  | 45 LB-FT              |       |                             |
| NEMA Design Code       |    | L            | KVA Code                                 | K                       | Starting Current |                       | 110 A |                             |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current         |                  | 5 A                   |       |                             |
| NEMA Nom. Eff.         |    | 80           | Power Factor                             |                         | 90               | Line-line Res. @ 25°C |       | 0.581 Ω A Ph<br>2.08 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load |                  | 56°C                  |       |                             |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load  |                  | 74°C                  |       |                             |

**Load Characteristics 230 V, 60 Hz, 3 HP**

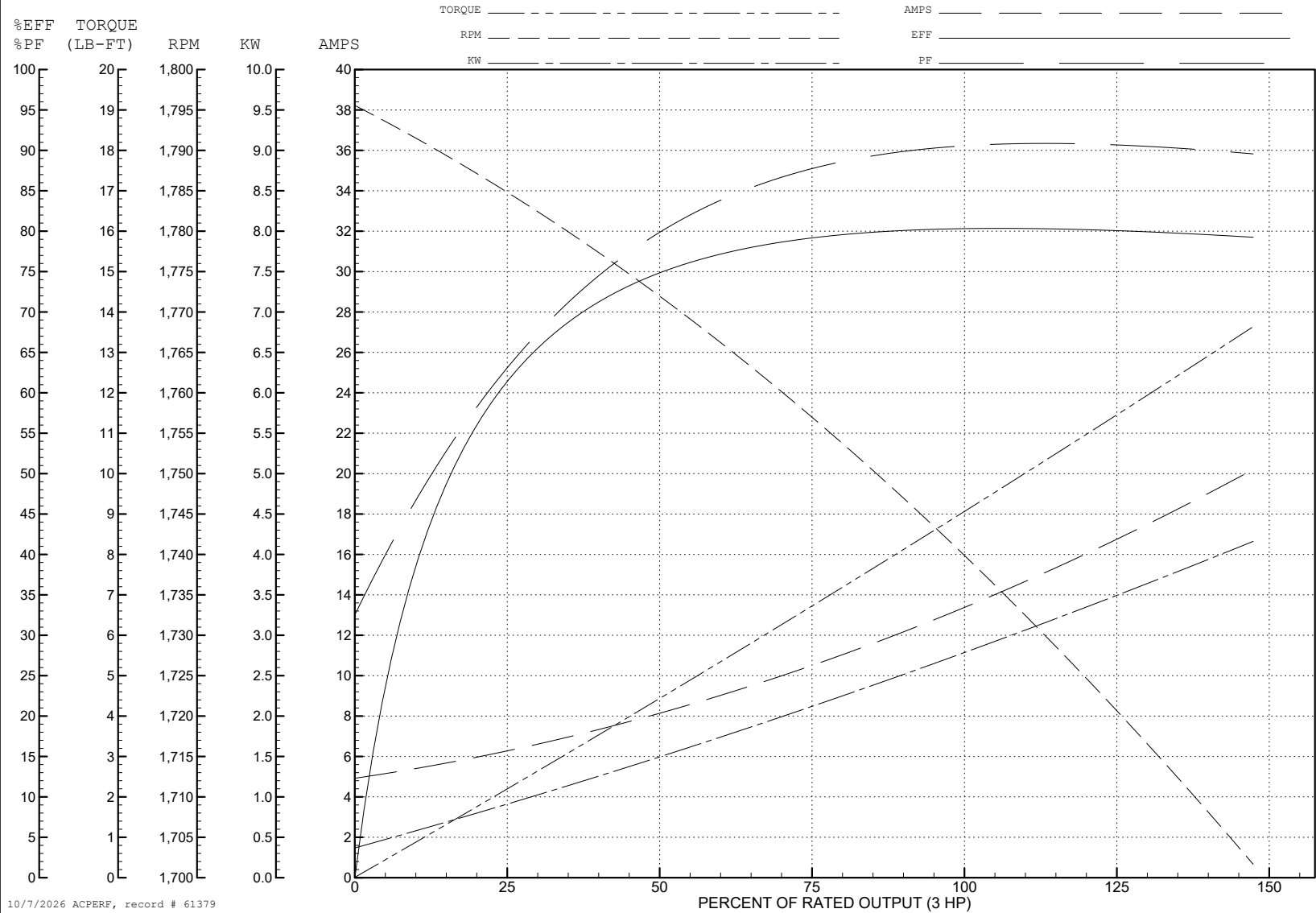
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 64   | 80   | 86   | 90   | 91   | 92   | 91   |
| Efficiency      | 61.3 | 74.6 | 79.2 | 80.7 | 80.4 | 79   | 80.5 |
| Speed           | 1784 | 1771 | 1756 | 1740 | 1722 | 1701 | 1729 |
| Line amperes    | 6.2  | 8.2  | 10.7 | 13.5 | 16.6 | 20.2 | 15.4 |

ABB Motors and Mechanical Inc.

WINDING # 37WGx229

Typical performance - not guaranteed values.

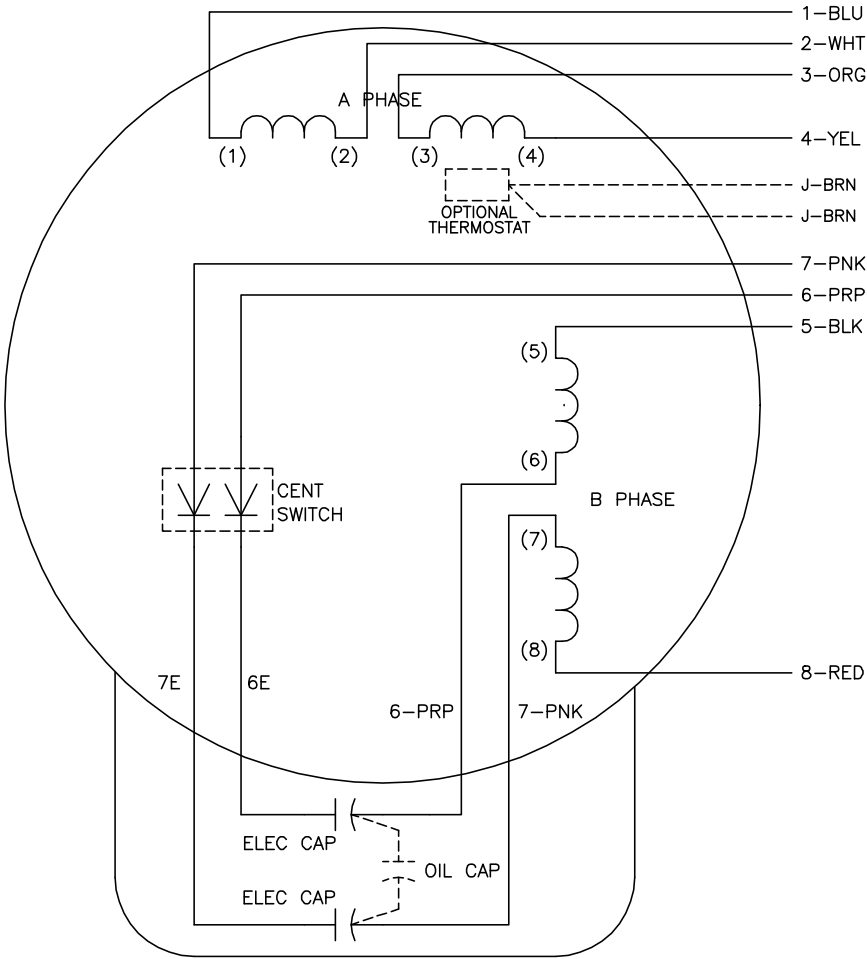
3 HP 1 PH 60 HZ 1725 RPM 230 V 3735LC  
TORQUES (LB-FT) : PO=24 PU=20 LR=45 LRA=110



10/7/2026 ACPERF, record # 61379



CD0076



|          | LINE A  | LINE B  | JOIN | JOIN |
|----------|---------|---------|------|------|
| HIGH STD | 1,8     | 4,5     | 2,3  | 6,7  |
| HIGH OPP | 1,5     | 4,8     | 2,3  | 6,7  |
| LOW STD  | 1,3,6,8 | 2,4,5,7 | —    | —    |
| LOW OPP  | 1,3,5,7 | 2,4,6,8 | —    | —    |

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

|                                |                      |                              |
|--------------------------------|----------------------|------------------------------|
| REV. DESC: ADD OPTIONAL COLORS |                      |                              |
| REV. LTR: E                    | VERSION: 01          | TDR: 000000372126            |
| 9/00076                        | FILE: \AAA\00007\419 | REVISED: 15:44:39 09/28/2005 |
|                                | MTL: —               | BY: ENJOEPO                  |

**BALDOR ELECTRIC Co.**

TYPE L OR LC, DV, REV, SERIES/PAR B PH, 8 LEAD

CD0076