

# ABB BALDOR RELIANCE III

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## Customer information packet

### FDL3737TM

10HP, 1730RPM, 1PH, 60HZ, 215T, 3752LC, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 215T                      |
| Frame Material                 | Steel                     |
| Frequency                      | 60.00 Hz                  |
| Haz Area Class and Group       | None                      |
| Haz Area Division              | Not Applicable            |
| Motor Letter Type              | Cap Start, Cap Run        |
| Output @ Frequency             | 10.000 HP @ 60 HZ         |
| Phase                          | 1                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 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                 | Rigid                     |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Current @ Voltage              | 39.000 A @ 230.0 V        |
| Design Code                    | L                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 86.5 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Face Code                | Standard                  |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 39.0 a                    |
| Insulation Class               | F                         |
| Inverter Code                  | Not Inverter              |

**Part Detail**

|              |                     |
|--------------|---------------------|
| Revision     | S                   |
| Type         | AC                  |
| Mech. spec.  | 37N370              |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 37WGT913            |
| Layout       | 37LYN370            |
| Eff. date    | 12-02-2025          |
| CD Diagram   | CD1336A02           |
| Poles        | 04                  |
| Leads        | 2#10 A PH,3#14 B PH |
| Proprietary  | False               |
| Created date | 12-10-2013          |

|                                      |                         |
|--------------------------------------|-------------------------|
| <b>KVA Code</b>                      | H                       |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs   |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing       |
| <b>Motor Lead Exit</b>               | Cap Box                 |
| <b>Motor Lead Quantity/Wire Size</b> | 2 @ 10 AWG, A PH        |
| <b>Motor Lead Termination</b>        | Flying Leads            |
| <b>Motor Standards</b>               | NEMA                    |
| <b>Motor Type</b>                    | 3752LC                  |
| <b>Mounting Arrangement</b>          | F1                      |
| <b>Number of Poles</b>               | 4                       |
| <b>Overall Length</b>                | 21.27 IN                |
| <b>Power Factor</b>                  | 96                      |
| <b>Product Family</b>                | General Purpose         |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing          |
| <b>Pulley Face Code</b>              | Standard                |
| <b>Pulley Shaft Indicator</b>        | Standard                |
| <b>Rodent Screen</b>                 | None                    |
| <b>Service Factor</b>                | 1.00                    |
| <b>Shaft Diameter</b>                | 1.375 IN                |
| <b>Shaft Extension Location</b>      | Pulley End              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding      |
| <b>Shaft Rotation</b>                | Reversible              |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger           |
| <b>Speed</b>                         | 1730 rpm                |
| <b>Speed Code</b>                    | Single Speed            |
| <b>Starting Method</b>               | Direct on line          |
| <b>Thermal Device - Bearing</b>      | None                    |
| <b>Thermal Device - Winding</b>      | None                    |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor     |
| <b>Winding Thermal 1</b>             | Manual Thermal Overload |
| <b>Winding Thermal 1 Location</b>    | KO                      |
| <b>Winding Thermal 2</b>             | None                    |

**Nameplate**

| NP1280L      |              |  |      |      |     |    |    |   |  |
|--------------|--------------|--|------|------|-----|----|----|---|--|
| CAT.NO.      | FDL3737TM    |  |      |      |     |    |    |   |  |
| SPEC.        | 37N370T913G1 |  |      |      |     |    |    |   |  |
| HP           | 10           |  |      |      |     |    |    |   |  |
| VOLTS        | 230          |  |      |      |     |    |    |   |  |
| AMP          | 39           |  |      |      |     |    |    |   |  |
| RPM          | 1730         |  |      |      |     |    |    |   |  |
| FRAME        | 215T         |  | HZ   | 60   |     | PH | 1  |   |  |
| SER.F.       | 1.00         |  | CODE | H    | DES | L  | CL | F |  |
| NEMA-NOM-EFF | 86.5         |  | PF   | 96   |     |    |    |   |  |
| RATING       | 40C AMB-CONT |  |      |      |     |    |    |   |  |
| CC           |              |  |      |      |     |    |    |   |  |
| DE           | 6307         |  | ODE  | 6206 |     |    |    |   |  |
| ENCL         | TEFC         |  | SN   |      |     |    |    |   |  |

**AC Induction Motor Performance Data**

Record # 21642

Typical performance - not guaranteed values

| Winding: 37WGT913-R001 |    |              |              | Type: 3752LC                          |                       | Enclosure: TEFC |                              |
|------------------------|----|--------------|--------------|---------------------------------------|-----------------------|-----------------|------------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>Single Voltage Motor |                       |                 |                              |
| Rated Output (HP)      |    | 10           |              | Full Load Torque                      |                       | 30.48 LB-FT     |                              |
| Volts                  |    | 230          |              | Start Configuration                   |                       | direct on line  |                              |
| Full Load Amps         |    | 39           |              | Breakdown Torque                      |                       | 86.2 LB-FT      |                              |
| R.P.M.                 |    | 1730         |              | Pull-up Torque                        |                       | 63.3 LB-FT      |                              |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                   |                       | 125 LB-FT       |                              |
| NEMA Design Code       |    | L            | KVA Code     | H                                     | Starting Current      |                 | 300 A                        |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                       |                       | 11.6 A          |                              |
| NEMA Nom. Eff.         |    | 86.5         | Power Factor | 96                                    | Line-line Res. @ 25°C |                 | 0.1493 Ω A Ph<br>0.41 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load               |                       | 97°C            |                              |
|                        |    |              |              | Locked-rotor Power Factor             |                       | 92.9            |                              |
|                        |    |              |              | Rotor inertia                         |                       | 1.23 lb-ft²     |                              |

**Load Characteristics 230 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 74   | 88   | 93   | 94   | 95   | 94   |
| Efficiency      | 73.3 | 83.9 | 86.8 | 86.1 | 82.6 | 80.4 |
| Speed           | 1780 | 1765 | 1746 | 1726 | 1701 | 1667 |
| Line amperes    | 14.7 | 22   | 30.3 | 39.9 | 51   | 63.8 |

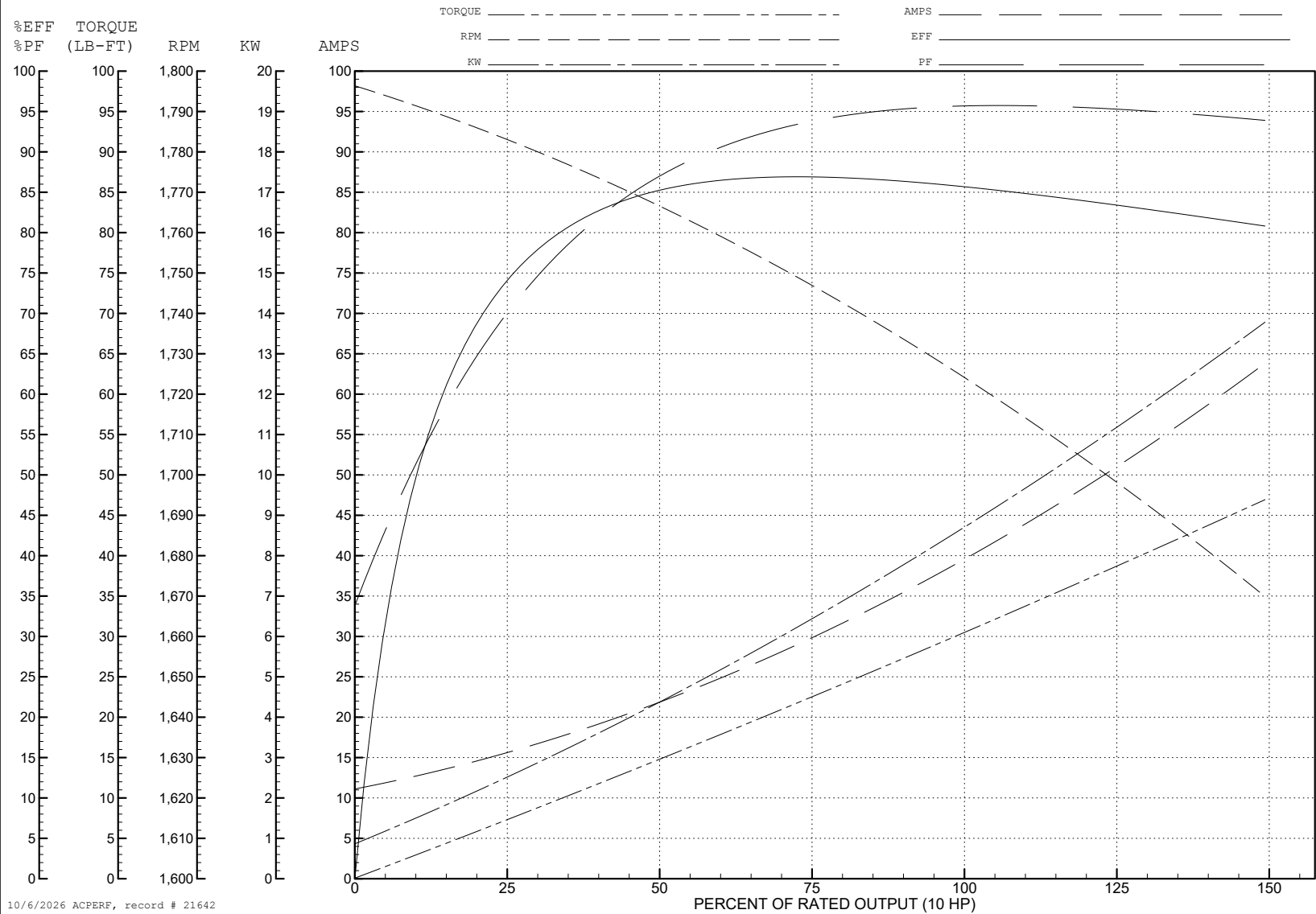
ABB Motors and Mechanical Inc.

WINDING # 37WGT913

Typical performance - not guaranteed values.

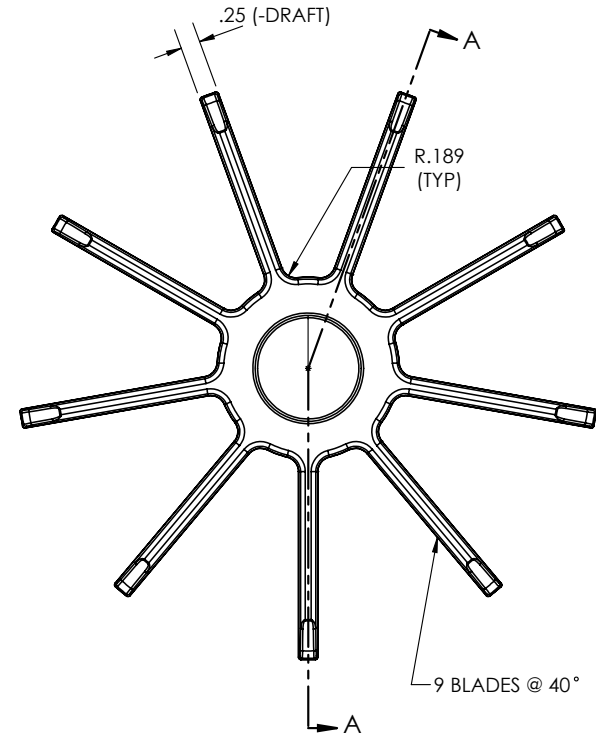
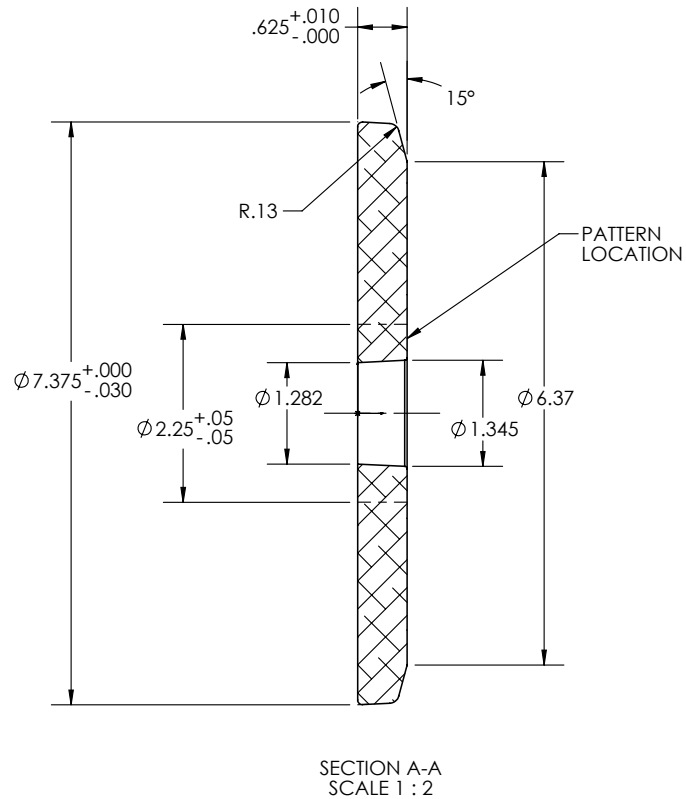
10 HP 1 PH 60 HZ 1730 RPM 230 V 3752LC

TORQUES (LB-FT): PO=86.2 PU=63.3 LR=125 LRA=300





36FN3004



**DIE CAST ALUMINUM TOLERANCES  
UNLESS OTHERWISE SPECIFIED**

|        |            |                                 |
|--------|------------|---------------------------------|
| 2 PLCS | 0-1" ±.010 | FLASH GROWTH<br>ALLOWANCE .015" |
| 3 PLCS | 0-1" ±.004 |                                 |

ABOVE 1" ±.001/INCH | ANGLES ±0.5°

**UNSPECIFIED FEATURE DIMENSIONS:**

RADII=.03-.06 DRAFT ANGLES = 2.88°

WEIGHT = 9 OZ.

REV. DESC: INCREASE RADIUS AROUND HUB AREA

|        |             |                              |                   |
|--------|-------------|------------------------------|-------------------|
| REV: B | VERSION: 02 | REVISED: 02:56:33 05/10/2017 | TDR: 000001027912 |
|--------|-------------|------------------------------|-------------------|

36FN3004

MODEL NO. 36FN3004

REF: -

BY: USFRHAR

Material: - DIE CAST ALUMINUM

**BALDOR**

FAN EXTERNAL 36 FRAME - EXPLOSION PROOF DIE CAST

36FN3004

|     | LINE A | LINE B | JOIN |
|-----|--------|--------|------|
| STD | 1,8    | 4      | J,5  |
| OPP | 1,5    | 4      | J,8  |

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
4. CAPS AND RELAY MAY BE SEPARATELY MOUNTED.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.