

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **FDL3610TM**

**3HP,1750RPM,1PH,60HZ,184T,3640LC,TEFC,F1**

| Part Detail |                    |                |        |             |          |               |            |
|-------------|--------------------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | J                  | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                 | Prod. Type:    | 3640LC | Elec. Spec: | 36WGY739 | CD Diagram:   | CD0002A02  |
| Enclosure:  | TEFC               | Mfg Plant:     |        | Mech. Spec: | 36Q170   | Layout:       | 36LYQ170   |
| Frame:      | 184T               | Mounting:      | F1     | Poles:      | 04       | Created Date: | 12-13-2013 |
| Base:       | RG                 | Rotation:      | R      | Insulation: | F        | Eff. Date:    | 09-10-2015 |
| Leads:      | 2#14 A PH,3#16 B&J |                |        |             |          | Replaced By:  |            |
| Literature: |                    | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP1280L

|              |              |  |  |  |                |      |  |     |   |  |
|--------------|--------------|--|--|--|----------------|------|--|-----|---|--|
| CAT.NO.      | FDL3610TM    |  |  |  |                |      |  |     |   |  |
| SPEC.        | 36Q170Y739G1 |  |  |  |                |      |  |     |   |  |
| HP           | 3            |  |  |  |                |      |  |     |   |  |
| VOLTS        | 230          |  |  |  |                |      |  |     |   |  |
| AMP          | 15.5         |  |  |  |                |      |  |     |   |  |
| RPM          | 1750         |  |  |  |                |      |  |     |   |  |
| FRAME        | 184T         |  |  |  | HZ             | 60   |  | PH  | 1 |  |
| SER.F.       | 1.00         |  |  |  | CODE           | M    |  | DES | L |  |
| NEMA-NOM-EFF | 80           |  |  |  | PF             | 76   |  | CL  | F |  |
| RATING       | 40C AMB-CONT |  |  |  |                |      |  |     |   |  |
| CC           |              |  |  |  | USABLE AT 208V |      |  |     |   |  |
| DE           | 6206         |  |  |  | ODE            | 6205 |  |     |   |  |
| ENCL         | TEFC         |  |  |  | SN             |      |  |     |   |  |
|              |              |  |  |  |                |      |  |     |   |  |

**AC Induction Motor Performance Data**

Record # 11466 - Typical performance - not guaranteed values

|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 36WGY739-R001 | <b>Type:</b> 3640LC | <b>Enclosure:</b> TEFC |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>Single Voltage Motor |                                           |
|-----------------------|--------------|--------------|----|---------------------------------------|-------------------------------------------|
| Rated Output (HP)     | 3            |              |    | Full Load Torque                      | 9 LB-FT                                   |
| Volts                 | 230          |              |    | Start Configuration                   | direct on line                            |
| Full Load Amps        | 15.5         |              |    | Breakdown Torque                      | 32 LB-FT                                  |
| R.P.M.                | 1750         |              |    | Pull-up Torque                        | 31 LB-FT                                  |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                   | 37 LB-FT                                  |
| NEMA Design Code      | L            | KVA Code     | M  | Starting Current                      | 144 A                                     |
| Service Factor (S.F.) | 1            |              |    | No-load Current                       | 10.7 A                                    |
| NEMA Nom. Eff.        | 80           | Power Factor | 76 | Line-line Res. @ 25°C                 | 0.472 $\Omega$ A Ph<br>1.53 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load               | 85°C                                      |

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

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 39   | 56   | 68   | 76   | 82   | 85   |
| Efficiency      | 53.4 | 70.8 | 77.9 | 81   | 82   | 81.9 |
| Speed           | 1791 | 1782 | 1775 | 1768 | 1759 | 1749 |
| Line amperes    | 10.9 | 11.8 | 13.5 | 15.5 | 18   | 20.7 |

## Performance Graph at 230V, 60Hz, 3.0HP Typical performance - Not guaranteed values





