



## Product Information Packet

# L3404

.25HP,1140RPM,1PH,60HZ,48,3421L,TEFC,F1

| Part Detail |        |             |            |             |        |               |    |
|-------------|--------|-------------|------------|-------------|--------|---------------|----|
| Revision:   | U      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No |
| Type:       | AC     | Elec. Spec: | 34WG5613   | CD Diagram: | CD0001 | Mfg Plant:    |    |
| Mech. Spec: | 34C051 | Layout:     | 34LYC051   | Poles:      | 06     | Created Date: |    |
| Base:       | RG     | Eff. Date:  | 11-18-2020 | Leads:      | 6#18   |               |    |

| Specs                           |                          |                                |                   |
|---------------------------------|--------------------------|--------------------------------|-------------------|
| Catalog Number:                 | L3404                    | Insulation Class:              | B                 |
| Enclosure:                      | TEFC                     | Inverter Code:                 | Not Inverter      |
| Frame:                          | 48                       | IP Rating:                     | NONE              |
| Frame Material:                 | Steel                    | KVA Code:                      | N                 |
| Motor Letter Type:              | Cap Start, Induction Run | Lifting Lugs:                  | No Lifting Lugs   |
| Output @ Frequency:             | .250 HP @ 60 HZ          | Locked Bearing Indicator:      | No Locked Bearing |
| Synchronous Speed @ Frequency:  | 1200 RPM @ 60 HZ         | Motor Lead Quantity/Wire Size: | 6 @ 18 AWG        |
| Voltage @ Frequency:            | 230.0 V @ 60 HZ          | Motor Lead Exit:               | Ko Box            |
|                                 | 115.0 V @ 60 HZ          | Motor Lead Termination:        | Flying Leads      |
| XP Class and Group:             | None                     | Motor Type:                    | 3421L             |
| XP Division:                    | Not Applicable           | Mounting Arrangement:          | F1                |
| Agency Approvals:               | CSA                      | Power Factor:                  | 53                |
|                                 | UR                       | Product Family:                | General Purpose   |
| Auxillary Box:                  | No Auxillary Box         | Pulley End Bearing Type:       | Ball              |
| Auxillary Box Lead Termination: | None                     | Pulley Face Code:              | Standard          |
| Base Indicator:                 | Rigid                    | Pulley Shaft Indicator:        | Standard          |
| Bearing Grease Type:            | Polyrex EM (-20F +300F)  | Rodent Screen:                 | None              |
| Blower:                         | None                     | Shaft Extension Location:      | Pulley End        |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 3.600 A @ 208.0 V         | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
|                                       | 6.400 A @ 115.0 V         | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 3.200 A @ 230.0 V         | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
| <b>Design Code:</b>                   | N                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Motor Standards:</b>            | NEMA                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Starting Method:</b>            | Direct on line      |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 1:</b>          | None                |
| <b>Heater Indicator:</b>              | No Heater                 | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP1256L

|              |              |  |  |                |     |      |   |       |   |    |     |  |
|--------------|--------------|--|--|----------------|-----|------|---|-------|---|----|-----|--|
| CAT.NO.      | L3404        |  |  |                |     |      |   |       |   |    |     |  |
| SPEC.        | 34C51-5613   |  |  |                |     |      |   |       |   |    |     |  |
| HP           | .25          |  |  |                |     |      |   |       |   |    |     |  |
| VOLTS        | 115/230      |  |  |                |     |      |   |       |   |    |     |  |
| AMP          | 6.4/3.2      |  |  |                |     |      |   |       |   |    |     |  |
| RPM          | 1140         |  |  |                |     |      |   |       |   |    |     |  |
| FRAME        | 48           |  |  |                | HZ  | 60   |   |       |   | PH | 1   |  |
| SER.F.       | 1.35         |  |  | CODE           | N   | DES  | N | CLASS | B |    |     |  |
| NEMA-NOM-EFF | 48           |  |  | PF             | 53  |      |   |       |   |    |     |  |
| RATING       | 40C AMB-CONT |  |  |                |     |      |   |       |   |    |     |  |
| CC           |              |  |  | USABLE AT 208V |     |      |   |       |   |    | 3.6 |  |
| DE           | 6203         |  |  |                | ODE | 6203 |   |       |   |    |     |  |
| ENCL         | TEFC         |  |  | SN             |     |      |   |       |   |    |     |  |
|              | SFA 6.8/3.4  |  |  |                |     |      |   |       |   |    |     |  |

**AC Induction Motor Performance Data**

Record # 6803

Typical performance - not guaranteed values

| Winding: 34WG5613-R001 |  |              |  | Type: 3421L                              |  | Enclosure: TEFC     |  |                       |  |                            |  |
|------------------------|--|--------------|--|------------------------------------------|--|---------------------|--|-----------------------|--|----------------------------|--|
| Nameplate Data         |  |              |  | 230 V, 60 Hz:<br>High Voltage Connection |  |                     |  |                       |  |                            |  |
| Rated Output (HP)      |  | .25          |  | Full Load Torque                         |  | 1.13 LB-FT          |  |                       |  |                            |  |
| Volts                  |  | 115/230      |  | Start Configuration                      |  | direct on line      |  |                       |  |                            |  |
| Full Load Amps         |  | 6.4/3.2      |  | Breakdown Torque                         |  | 3.33 LB-FT          |  |                       |  |                            |  |
| R.P.M.                 |  | 1140         |  | Pull-up Torque                           |  | 2.83 LB-FT          |  |                       |  |                            |  |
| Hz                     |  | 60 Phase     |  | 1                                        |  | Locked-rotor Torque |  | 3.5 LB-FT             |  |                            |  |
| NEMA Design Code       |  | N            |  | KVA Code                                 |  | N                   |  | Starting Current      |  | 12.9 A                     |  |
| Service Factor (S.F.)  |  | 1.35         |  | No-load Current                          |  | 2.9 A               |  |                       |  |                            |  |
| NEMA Nom. Eff.         |  | 48           |  | Power Factor                             |  | 53                  |  | Line-line Res. @ 25°C |  | 8.08 Ω A Ph<br>6.68 Ω B Ph |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load                  |  | 77°C                |  |                       |  |                            |  |
| S.F. Amps              |  | 6.8/3.4      |  | Temp. Rise @ S.F. Load                   |  | 90°C                |  |                       |  |                            |  |

**Load Characteristics 230 V, 60 Hz, 0.25 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 32   | 39   | 47   | 53   | 59   | 65   | 63   |
| Efficiency      | 21   | 35   | 43   | 48   | 51   | 52   | 51.5 |
| Speed           | 1188 | 1170 | 1160 | 1145 | 1130 | 1110 | 1120 |
| Line amperes    | 2.9  | 3    | 3.1  | 3.2  | 3.3  | 3.6  | 3.4  |

Performance Graph at 230V, 60Hz, 0.25HP Typical performance - Not guaranteed values





