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# Customer information packet

## L1306-50

.75/KW .56, 2900RPM, 1PH, 50HZ, 56, 3428LC, OP

Class - None

Division - Not Applicable

## Specifications

|                                |                                    |
|--------------------------------|------------------------------------|
| Enclosure                      | OPEN                               |
| Frame                          | 56                                 |
| Frame Material                 | Steel                              |
| Frequency                      | 50.00 Hz                           |
| Haz Area Class and Group       | None                               |
| Haz Area Division              | Not Applicable                     |
| Motor Letter Type              | Cap Start, Cap Run                 |
| Output @ Frequency             | .750 HP @ 50 HZ                    |
| Phase                          | 1                                  |
| Synchronous Speed @ Frequency  | 3000 RPM @ 50 HZ                   |
| Voltage @ Frequency            | 110.0 V @ 50 HZ<br>220.0 V @ 50 HZ |
| Agency Approvals               | UR<br>CE<br>CSA<br>WEEE            |
| 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                               |
| Design Code                    | N                                  |
| Drip Cover                     | No Drip Cover                      |
| Duty Rating                    | CONT                               |
| Electrically Isolated Bearing  | Not Electrically Isolated          |
| Feedback Device                | NO FEEDBACK                        |
| Front Shaft Indicator          | None                               |
| Heater Indicator               | No Heater                          |
| Insulation Class               | B                                  |
| Inverter Code                  | Not Inverter                       |
| Lifting Lugs                   | No Lifting Lugs                    |

## Part detail

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  | 34F353     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WGR749   |
| Layout       | 34LYF353   |
| Eff. date    | 12-31-2024 |
| CD Diagram   | CD0055     |
| Poles        | 02         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 02-16-2023 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Locked Bearing Indicator</b>      | No Locked Bearing   |
| <b>Motor Lead Quantity/Wire Size</b> | 6 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3428LC              |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 2                   |
| <b>Overall Length</b>                | 11.00 IN            |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <b>Pulley Face Code</b>              | Standard            |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>RoHS Status</b>                   | ROHS COMPLIANT      |
| <b>Service Factor</b>                | 1.25                |
| <b>Shaft Diameter</b>                | 0.625 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | No Slinger          |
| <b>Speed</b>                         | 2850 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>             | None                |
| <b>Winding Thermal 2</b>             | None                |

## Nameplate

| NP1372L        |                          |      |                |      |   |    |    |   |  |
|----------------|--------------------------|------|----------------|------|---|----|----|---|--|
| CAT.NO.        | L1306-50                 |      |                |      |   |    |    |   |  |
| SPEC.          | 34F353R749G1             |      |                |      |   |    |    |   |  |
| HP             | .75/KW .56               |      |                |      |   |    |    |   |  |
| VOLTS          | 110/220                  |      |                |      |   |    |    |   |  |
| AMP            | 6.8/3.4                  |      |                |      |   |    |    |   |  |
| R.P.M. (1/MIN) | 2900                     |      |                |      |   |    |    |   |  |
| FRAME          | 56                       |      | HZ             | 50   |   |    | PH | 1 |  |
| SER.F.         | 1.25                     | CODE | J              | DES  | - | CL | B  |   |  |
| NEMA-NOM-EFF   | 75.5                     | PF   | 93             |      |   |    |    |   |  |
| RATING         | 40C AMB-S1 CONT          |      |                |      |   |    |    |   |  |
| CC             |                          |      | IP23 18KG IC01 |      |   |    |    |   |  |
| DE             | 6203                     |      | ODE            | 6203 |   |    |    |   |  |
| ENCL           | OPEN                     | SN   |                |      |   |    |    |   |  |
|                | IE2-50HZ 75(75%),68(50%) |      |                |      |   |    |    |   |  |

## AC Induction Motor Performance Data

Record # 101552

Typical performance - not guaranteed values

| Winding: 34WGR749-R001 |    |              | Type: 3428LC |                                          | Enclosure: OPEN                                         |                |
|------------------------|----|--------------|--------------|------------------------------------------|---------------------------------------------------------|----------------|
| Nameplate Data         |    |              |              | 220 V, 50 Hz:<br>High Voltage Connection |                                                         |                |
| Rated Output (KW)      |    | .55          |              | Full Load Torque                         |                                                         | 1.315 LB-FT    |
| Volts                  |    | 110/220      |              | Start Configuration                      |                                                         | direct on line |
| Full Load Amps         |    | 6.8/3.4      |              | Breakdown Torque                         |                                                         | 3.9 LB-FT      |
| R.P.M.                 |    | 2900         |              | Pull-up Torque                           |                                                         | 2.87 LB-FT     |
| Hz                     | 50 | Phase        | 1            | Locked-rotor Torque                      |                                                         | 3.02 LB-FT     |
| NEMA Design Code       |    | - KVA Code   |              | Starting Current                         |                                                         | 26.2 A         |
| Service Factor (S.F.)  |    | 1.25         |              | No-load Current                          |                                                         | 1.24 A         |
| NEMA Nom. Eff.         |    | 75.5         | Power Factor | 93                                       | Line-line Res. @ 25°C<br>2.9143 Ω A Ph<br>3.0167 Ω B Ph |                |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                                                         | 19°C           |
| S.F. Amps              |    | 8.6/4.3      |              | Temp. Rise @ S.F. Load                   |                                                         | 33°C           |

## Load Characteristics 220 V, 50 Hz, 0.55 KW

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 72     | 85     | 91     | 93     | 94     | 95     | 94   |
| Efficiency      | 52.2   | 68.2   | 75.4   | 77.6   | 69.4   | 76.3   | 69.4 |
| Speed           | 2971.9 | 2951.7 | 2928.4 | 2903.2 | 2872.5 | 2841.4 | 2872 |
| Line amperes    | 1.56   | 2.08   | 2.7    | 3.4    | 4.22   | 5.13   | 4.22 |

ABB Motors and Mechanical Inc.

WINDING # 34WGR749

Typical performance - not guaranteed values.

0.55 KW 1 PH 50 HZ 2900 RPM 220 V 3428LC

TORQUES (LB-FT): PO=3.9 PU=2.87 LR=3.02 LRA=26.2





