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# Customer information packet

## CHC3416A

.33HP, 1700RPM, 1PH, 60HZ, 48Z, 3418C, TEAO, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TEAO                                   |
| Frame                          | 48Z                                    |
| Frame Material                 | Steel                                  |
| Frequency                      | 60.00 Hz                               |
| Haz Area Class and Group       | None                                   |
| Haz Area Division              | Not Applicable                         |
| Motor Letter Type              | Oil Capacitor Start and Run            |
| Output @ Frequency             | .330 HP @ 60 HZ                        |
| Phase                          | 1                                      |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>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                 | Resilient                              |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                |
| Blower                         | None                                   |
| Current @ Voltage              | 2.800 A @ 230.0 V<br>5.600 A @ 115.0 V |
| Design Code                    | N                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 56.0 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Face Code                | Resilient Mount                        |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 2.8 a                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AL         |
| Type         | AC         |
| Mech. spec.  | 34K052     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG5631   |
| Layout       | 34LYK052   |
| Eff. date    | 07-25-2024 |
| CD Diagram   | CD0381     |
| Poles        | 04         |
| Leads        | 7#18       |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                               |                            |
|-------------------------------|----------------------------|
| Insulation Class              | B                          |
| Inverter Code                 | Not Inverter               |
| KVA Code                      | H                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | No Locked Bearing          |
| Motor Lead Exit               | Terminal Panel             |
| Motor Lead Quantity/Wire Size | 7 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3418C                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 11.97 IN                   |
| Power Factor                  | 69                         |
| Product Family                | General Purpose            |
| Pulley End Bearing Type       | Ball                       |
| Pulley Face Code              | Resilient Mount            |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS COMPLIANT             |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 0.500 IN                   |
| Shaft Extension Location      | Pulley End                 |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | No Slinger                 |
| Speed                         | 1700 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             | Automatic Thermal Overload |
| Winding Thermal 1 Location    | SB                         |

## Nameplate

| NP1280L      |              |  |      |      |     |    |    |   |  |
|--------------|--------------|--|------|------|-----|----|----|---|--|
| CAT.NO.      | CHC3416A     |  |      |      |     |    |    |   |  |
| SPEC.        | 34K52-5631   |  |      |      |     |    |    |   |  |
| HP           | .33          |  |      |      |     |    |    |   |  |
| VOLTS        | 115/230      |  |      |      |     |    |    |   |  |
| AMP          | 5.6/2.8      |  |      |      |     |    |    |   |  |
| RPM          | 1700         |  |      |      |     |    |    |   |  |
| FRAME        | 48Z          |  | HZ   | 60   |     | PH | 1  |   |  |
| SER.F.       | 1.00         |  | CODE | H    | DES | N  | CL | B |  |
| NEMA-NOM-EFF | 56           |  | PF   | 69   |     |    |    |   |  |
| RATING       | 40C AMB-CONT |  |      |      |     |    |    |   |  |
| CC           |              |  |      |      |     |    |    |   |  |
| DE           | 6203         |  | ODE  | 6203 |     |    |    |   |  |
| ENCL         | TEAO         |  | SN   |      |     |    |    |   |  |
|              |              |  |      |      |     |    |    |   |  |

**AC Induction Motor Performance Data**

Record # 50785

Typical performance - not guaranteed values

| Winding: 34WG5631-R001 |    |              |              | Type: 3418C                              |                       | Enclosure: TEAO |                          |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|--------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>High Voltage Connection |                       |                 |                          |
| Rated Output (HP)      |    | .33          |              | Full Load Torque                         |                       | 1 LB-FT         |                          |
| Volts                  |    | 115/230      |              | Start Configuration                      |                       | direct on line  |                          |
| Full Load Amps         |    | 5.6/2.8      |              | Breakdown Torque                         |                       | 2.88 LB-FT      |                          |
| R.P.M.                 |    | 1700         |              | Pull-up Torque                           |                       | 0.38 LB-FT      |                          |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                      |                       | 0.5 LB-FT       |                          |
| NEMA Design Code       |    | N            | KVA Code     | H                                        | Starting Current      |                 | 9.6 A                    |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                          |                       | 2.6 A           |                          |
| NEMA Nom. Eff.         |    | 56           | Power Factor | 69                                       | Line-line Res. @ 25°C |                 | 7.36 Ω A Ph<br>22 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       |                 |                          |

**Load Characteristics 230 V, 60 Hz, 0.33 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 42   | 53   | 62   | 67   | 74   | 78   |
| Efficiency      | 29   | 46   | 52   | 56   | 58   | 58   |
| Speed           | 1775 | 1755 | 1738 | 1712 | 1692 | 1655 |
| Line amperes    | 2.5  | 2.5  | 2.6  | 2.8  | 3.2  | 3.5  |

ABB Motors and Mechanical Inc.

WINDING # 34WG5631

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1700 RPM 230 V 3418C

TORQUES (LB-FT) : PO=2.88 PU=0.38 LR=0.5 LRA=9.6





