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# Customer information packet

## CEL11310

1HP, 1750RPM, 1PH, 60HZ, 56C, 3528LC, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | OPEN                                   |
| Frame                          | 56C                                    |
| 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             | 1.000 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               | CURUSEEV                               |
| 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              | 4.400 A @ 230.0 V<br>8.800 A @ 115.0 V |
| Design Code                    | L                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 82.6 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 4.4 a                                  |
| Insulation Class               | F                                      |
| Inverter Code                  | Not Inverter                           |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 35E021     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG109   |
| Layout       | 35LYE021   |
| Eff. date    | 07-02-2024 |
| CD Diagram   | CD0055     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 08-01-2022 |

|                               |                     |
|-------------------------------|---------------------|
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 6 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3528LC              |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 12.06 IN            |
| Power Factor                  | 89                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1750 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             | None                |
| Winding Thermal 2             | None                |

## Nameplate

| NP3155L        |              |      |     |      |   |    |   |  |  |
|----------------|--------------|------|-----|------|---|----|---|--|--|
| CAT.NO.        | CEL11310     |      |     |      |   |    |   |  |  |
| SPEC.          | 35E021G109   |      |     |      |   |    |   |  |  |
| HP             | 1            |      |     |      |   |    |   |  |  |
| VOLTS          | 115/230      |      |     |      |   |    |   |  |  |
| AMP            | 8.8/4.4      |      |     |      |   |    |   |  |  |
| RPM            | 1750         |      |     |      |   |    |   |  |  |
| FRAME          | 56C          |      | HZ  | 60   |   | PH | 1 |  |  |
| SER.F.         | 1.15         | CODE | K   | DES  | L | CL | F |  |  |
| F.L. AVG. EFF. | 82.6         | PF   | 89  |      |   |    |   |  |  |
| RATING         | 40C AMB-CONT |      |     |      |   |    |   |  |  |
| CC             |              |      |     |      |   |    |   |  |  |
| DE             | 6205         |      | ODE | 6203 |   |    |   |  |  |
| ENCL           | OPEN         | SN   |     |      |   |    |   |  |  |
|                |              |      |     |      |   |    |   |  |  |

## AC Induction Motor Performance Data

Record # 108226

Typical performance - not guaranteed values

| Winding: 35WGG109-R001 |    |              | Type: 3528LC                            | Enclosure: OPEN         |                       |            |                                 |
|------------------------|----|--------------|-----------------------------------------|-------------------------|-----------------------|------------|---------------------------------|
| Nameplate Data         |    |              | 115 V, 60 Hz:<br>Low Voltage Connection |                         |                       |            |                                 |
| Rated Output (HP)      |    | 1            | Full Load Torque                        |                         | 3.006 LB-FT           |            |                                 |
| Volts                  |    | 115/230      | Start Configuration                     |                         | direct on line        |            |                                 |
| Full Load Amps         |    | 8.8/4.4      | Breakdown Torque                        |                         | 9.12 LB-FT            |            |                                 |
| R.P.M.                 |    | 1750         | Pull-up Torque                          |                         | 6.8 LB-FT             |            |                                 |
| Hz                     | 60 | Phase        | 1                                       | Locked-rotor Torque     |                       | 13.7 LB-FT |                                 |
| NEMA Design Code       |    | L            | KVA Code                                | K                       | Starting Current      |            | 75.2 A                          |
| Service Factor (S.F.)  |    | 1.15         |                                         | No-load Current         |                       | 4.53 A     |                                 |
| NEMA Nom. Eff.         |    | 82.6         | Power Factor                            | 89                      | Line-line Res. @ 25°C |            | 0.57842 Ω A Ph<br>1.1449 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                         | Temp. Rise @ Rated Load |                       | 22°C       |                                 |
| S.F. Amps              |    |              |                                         | Temp. Rise @ S.F. Load  |                       | 27°C       |                                 |

## Load Characteristics 115 V, 60 Hz, 1 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150    | S.F. |
|-----------------|--------|--------|--------|--------|------|--------|------|
| Power Factor    | 51     | 69     | 80     | 86     | 89   | 91     | 88   |
| Efficiency      | 65.7   | 78.3   | 82.3   | 82.7   | 81.4 | 78.7   | 81.9 |
| Speed           | 1783.2 | 1769.4 | 1753.1 | 1736.2 | 1716 | 1689.1 | 1724 |
| Line amperes    | 4.86   | 5.88   | 7.33   | 9.06   | 11.1 | 13.6   | 10.3 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG109

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528LC

TORQUES (LB-FT): PO=9.12 PU=6.8 LR=13.7 LRA=75.2





