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# Customer information packet

## VEDM3555

2HP, 3490RPM, 3PH, 60HZ, 56C, 3526M, TEFC, F1, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 56C                                                         |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | CCSA US<br>CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR    |
| Ambient Temperature            | 40 °C                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Constant Torque Speed Range    | 6                                                           |
| Current @ Voltage              | 5.300 A @ 208.0 V<br>5.000 A @ 230.0 V<br>2.500 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | J          |
| Type         | AC         |
| Mech. spec.  | 35E4312    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGM774   |
| Layout       | 35LYE4312  |
| Eff. date    | 05-30-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 05-11-2016 |

|                               |                    |
|-------------------------------|--------------------|
| Feedback Device               | NO FEEDBACK        |
| Front Face Code               | Standard           |
| Front Shaft Indicator         | None               |
| Heater Indicator              | No Heater          |
| High Voltage Full Load Amps   | 2.5 a              |
| Insulation Class              | F                  |
| Inverter Code                 | Inverter Duty      |
| KVA Code                      | M                  |
| Lifting Lugs                  | No Lifting Lugs    |
| Locked Bearing Indicator      | Locked Bearing     |
| Max Speed                     | 5400 rpm           |
| Motor Lead Exit               | Ko Box             |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG         |
| Motor Lead Termination        | Flying Leads       |
| Motor Standards               | NEMA               |
| Motor Type                    | 3526M              |
| Mounting Arrangement          | F1                 |
| Number of Poles               | 2                  |
| Overall Length                | 13.23 IN           |
| Power Factor                  | 88                 |
| Product Family                | Dirty Duty Plus    |
| Pulley End Bearing Type       | Sealed Bearing     |
| Pulley Face Code              | C-Face             |
| Pulley Shaft Indicator        | Standard           |
| Rodent Screen                 | None               |
| RoHS Status                   | ROHS COMPLIANT     |
| Service Factor                | 1.15               |
| Shaft Diameter                | 0.625 IN           |
| Shaft Extension Location      | Pulley End         |
| Shaft Ground Indicator        | No Shaft Grounding |
| Shaft Rotation                | Reversible         |
| Shaft Slinger Indicator       | No Slinger         |
| Speed                         | 3490 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

## NP3504

|              |               |          |   |       |      |            |      |    |          |    |
|--------------|---------------|----------|---|-------|------|------------|------|----|----------|----|
| CAT NO       | VEDM3555      |          |   |       |      |            |      |    |          |    |
| SPEC.        | 35E4312M774G1 |          |   |       |      | ENCL       | TEFC |    |          |    |
| FRAME        | 56C           | HP       |   | 2     |      |            |      |    |          |    |
| VOLTS        | 230/460       |          |   |       |      |            |      |    |          |    |
| FLA          | 5/2.5         |          |   | I.P.  |      | 56         |      |    |          |    |
| RPM          | 3490          | RPM MAX  |   |       |      | 5400       |      |    |          |    |
| HZ           | 60            | PH       | 3 | CLASS |      | F          |      |    |          |    |
| SER.F.       | 1.15          | DES      | B | CC    | 010A |            |      |    |          |    |
| NEMA-NOM-EFF | 85.5          |          |   |       |      |            |      |    |          |    |
| RATING       | 40C AMB-CONT  |          |   |       |      |            |      |    |          |    |
| DE BRG       | 6205          | ODE BRG  |   |       |      | 6203       |      |    |          |    |
| GREASE       | POLYREX EM    |          |   |       |      |            |      |    |          |    |
| INV.TYPE     |               | C HP FR  |   |       | 60   | C HP TO    |      | 90 |          |    |
| CT HZ FROM   | 6             | CT HZ TO |   |       | 60   | VT HZ FROM |      | 6  | VT HZ TO | 60 |
| SER.NO       |               |          |   |       |      |            |      |    |          |    |
|              | 50C AT 1.0 SF |          |   |       |      |            |      |    |          |    |

## AC Induction Motor Performance Data

Record # 55731

Typical performance - not guaranteed values

| Winding: 35WGM774-R081 |    |              | Type: 3526M                              |                           | Enclosure: TEFC       |               |          |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|---------------|----------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |               |          |
| Rated Output (HP)      |    | 2            | Full Load Torque                         |                           | 2.98 LB-FT            |               |          |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line        |               |          |
| Full Load Amps         |    | 5/2.5        | Breakdown Torque                         |                           | 14.2 LB-FT            |               |          |
| R.P.M.                 |    | 3490         | Pull-up Torque                           |                           | 6.33 LB-FT            |               |          |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                       | 11.2 LB-FT    |          |
| NEMA Design Code       |    | B            | KVA Code                                 | M                         | Starting Current      |               | 25.9 A   |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                       | 0.912 A       |          |
| NEMA Nom. Eff.         |    | 85.5         | Power Factor                             | 88                        | Line-line Res. @ 25°C |               | 6.9119 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 44°C          |          |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load    |                       | 52°C          |          |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 50            |          |
|                        |    |              |                                          | Rotor inertia             |                       | 0.0719 LB-FT2 |          |

## Load Characteristics 460 V, 60 Hz, 2 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 55     | 75     | 84     | 88     | 90     | 91     | 89   |
| Efficiency      | 74.3   | 83.5   | 85.9   | 86.4   | 85.9   | 84.8   | 86.1 |
| Speed           | 3571.7 | 3546.5 | 3520.2 | 3492.1 | 3460.7 | 3425.5 | 3473 |
| Line amperes    | 1.1    | 1.47   | 1.93   | 2.44   | 3      | 3.61   | 2.78 |

ABB Motors and Mechanical Inc.

WINDING # 35WGM774

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3490 RPM 460 V 3526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9





