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# Customer information packet

## VEJMM3158T

3HP, 3450RPM, 3PH, 60HZ, 145JM, 3528M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | OPEN                                                        |
| Frame                          | 145JM                                                       |
| 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             | 3.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | CSA<br>CSA EEV<br>NEMA PREMIUM<br>UR                        |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 8.000 A @ 208.0 V<br>7.600 A @ 230.0 V<br>3.800 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | Drip Cover                                                  |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Standard                                                    |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AF         |
| Type         | AC         |
| Mech. spec.  | 35E4124    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGL051   |
| Layout       | 35LYE4124  |
| Eff. date    | 06-16-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 06-02-2015 |

|                               |                    |
|-------------------------------|--------------------|
| Front Shaft Indicator         | None               |
| Heater Indicator              | No Heater          |
| High Voltage Full Load Amps   | 3.8 a              |
| Insulation Class              | F                  |
| Inverter Code                 | Inverter Ready     |
| KVA Code                      | K                  |
| Lifting Lugs                  | No Lifting Lugs    |
| Locked Bearing Indicator      | Locked Bearing     |
| Motor Lead Exit               | Ko Box             |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG         |
| Motor Lead Termination        | Flying Leads       |
| Motor Standards               | NEMA               |
| Motor Type                    | 3528M              |
| Mounting Arrangement          | F1                 |
| Number of Poles               | 2                  |
| Overall Length                | 14.25 IN           |
| Power Factor                  | 89                 |
| Product Family                | General Purpose    |
| Pulley End Bearing Type       | Ball               |
| Pulley Face Code              | C-Face             |
| Pulley Shaft Indicator        | Tapped & Key       |
| Rodent Screen                 | Included           |
| RoHS Status                   | ROHS COMPLIANT     |
| Service Factor                | 1.15               |
| Shaft Diameter                | 0.875 IN           |
| Shaft Extension Location      | Pulley End         |
| Shaft Ground Indicator        | No Shaft Grounding |
| Shaft Rotation                | Reversible         |
| Shaft Slinger Indicator       | Shaft Slinger      |
| Speed                         | 3450 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

## NP3553LUA

|                           |                          |      |     |      |   |       |    |       |  |  |
|---------------------------|--------------------------|------|-----|------|---|-------|----|-------|--|--|
| CAT.NO.                   | VEJMM3158T               |      |     |      |   |       |    |       |  |  |
| SPEC.                     | 35E4124L051G1            |      |     |      |   |       |    |       |  |  |
| HP                        | 3                        |      |     |      |   |       |    |       |  |  |
| VOLTS                     | 230/460                  |      |     |      |   |       |    |       |  |  |
| AMPS                      | 7.6/3.8                  |      |     |      |   |       |    |       |  |  |
| RPM                       | 3450                     |      |     |      |   |       |    |       |  |  |
| FRAME                     | 145JM                    |      | HZ  | 60   |   |       | PH | 3     |  |  |
| SF                        | 1.15                     | CODE | K   | DES  | B | CLASS | F  |       |  |  |
| NEMA NOM. EFF             | 85.5                     | PF   | 89  |      |   |       |    |       |  |  |
| RATING                    | 40C AMB-CONT             |      |     |      |   |       |    |       |  |  |
| CC                        | 010A                     |      |     |      |   |       |    |       |  |  |
| ENCL                      | OPEN                     | SN   |     |      |   |       |    |       |  |  |
| DE                        | 6206                     |      | ODE | 6203 |   |       |    |       |  |  |
| VPWM INVERTER READY       |                          |      |     |      |   |       |    |       |  |  |
| CT30-60(2:1) VT3-60(20:1) |                          |      |     |      |   |       |    |       |  |  |
| USABLE AT                 | 50HZ 3HP 190/380V 9/4.5A |      |     |      |   |       |    | SF1.0 |  |  |

**AC Induction Motor Performance Data**

Record # 48297

Typical performance - not guaranteed values

| Winding: 35WGL051-R004 |    |              | Type: 3528M                              |                         | Enclosure: ODP        |            |          |
|------------------------|----|--------------|------------------------------------------|-------------------------|-----------------------|------------|----------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                         |                       |            |          |
| Rated Output (HP)      |    | 3            | Full Load Torque                         |                         | 4.65 LB-FT            |            |          |
| Volts                  |    | 230/460      | Start Configuration                      |                         | direct on line        |            |          |
| Full Load Amps         |    | 7.6/3.8      | Breakdown Torque                         |                         | 18.7 LB-FT            |            |          |
| R.P.M.                 |    | 3450         | Pull-up Torque                           |                         | 12.2 LB-FT            |            |          |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque     |                       | 17.3 LB-FT |          |
| NEMA Design Code       |    | B            | KVA Code                                 | K                       | Starting Current      |            | 32 A     |
| Service Factor (S.F.)  |    | 1.15         | No-load Current                          |                         | 1.36 A                |            |          |
| NEMA Nom. Eff.         |    | 85.5         | Power Factor                             | 89                      | Line-line Res. @ 25°C |            | 4.7021 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load |                       |            |          |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|------|--------|--------|--------|--------|------|
| Power Factor    | 55     | 76   | 85     | 89     | 92     | 93     | 91   |
| Efficiency      | 82.1   | 87   | 87.4   | 86.2   | 84.6   | 82.2   | 85.2 |
| Speed           | 3566.3 | 3535 | 3499.4 | 3457.2 | 3415.1 | 3364.7 | 3432 |
| Line amperes    | 1.63   | 2.16 | 2.88   | 3.74   | 4.57   | 5.58   | 4.24 |

ABB Motors and Mechanical Inc.

WINDING # 35WGL051

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M

TORQUES (LB-FT): PO=18.7 PU=12.2 LR=17.3 LRA=32







