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# Customer information packet

## VL3515T

2HP, 3450RPM, 1PH, 60HZ, 145TC, 3535L, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 145TC                                                          |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Cap Start, Induction Run                                       |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                               |
| Phase                          | 1                                                              |
| Synchronous Speed @ Frequency  | 3600 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                                                          |
| Auxillary Box                  | No Auxillary Box                                               |
| Auxillary Box Lead Termination | None                                                           |
| Base Indicator                 | No Mounting                                                    |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                        |
| Blower                         | None                                                           |
| Current @ Voltage              | 11.500 A @ 230.0 V<br>12.000 A @ 208.0 V<br>23.000 A @ 115.0 V |
| Design Code                    | L                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 74.0 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Face Code                | Standard                                                       |
| Front Shaft Indicator          | None                                                           |
| Heater Indicator               | No Heater                                                      |

## Part detail

|              |                     |
|--------------|---------------------|
| Revision     | X                   |
| Type         | AC                  |
| Mech. spec.  | 35Y522              |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 35WG0506            |
| Layout       | 35LYY522            |
| Eff. date    | 05-08-2024          |
| CD Diagram   | CD0001              |
| Poles        | 02                  |
| Leads        | 4#14 A PH,2#18 B PH |
| Proprietary  | False               |
| Created date | 12-04-2009          |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 11.5 a              |
| Insulation Class              | F                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 4 @ 14 AWG, A PH    |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3535L               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 2                   |
| Overall Length                | 14.16 IN            |
| Power Factor                  | 82                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| 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       | No 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                |

|                          |             |
|--------------------------|-------------|
| <b>Winding Thermal 2</b> | <b>None</b> |
|--------------------------|-------------|

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## Nameplate

| NP1256L      |               |      |     |      |   |       |    |   |  |
|--------------|---------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | VL3515T       |      |     |      |   |       |    |   |  |
| SPEC.        | 35Y522-0506G1 |      |     |      |   |       |    |   |  |
| HP           | 2             |      |     |      |   |       |    |   |  |
| VOLTS        | 115/230       |      |     |      |   |       |    |   |  |
| AMP          | 23/11.5       |      |     |      |   |       |    |   |  |
| RPM          | 3450          |      |     |      |   |       |    |   |  |
| FRAME        | 145TC         |      | HZ  | 60   |   |       | PH | 1 |  |
| SER.F.       | 1.15          | CODE | K   | DES  | L | CLASS | F  |   |  |
| NEMA-NOM-EFF | 74            | PF   | 82  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT  |      |     |      |   |       |    |   |  |
| CC           |               |      |     |      |   |       |    |   |  |
| DE           | 6205          |      | ODE | 6203 |   |       |    |   |  |
| ENCL         | TEFC          | SN   |     |      |   |       |    |   |  |
|              |               |      |     |      |   |       |    |   |  |

## AC Induction Motor Performance Data

Record # 20312

Typical performance - not guaranteed values

| Winding: 35WG0506-R001 |    |              | Type: 3535L                              |                         | Enclosure: TEFC       |           |                             |
|------------------------|----|--------------|------------------------------------------|-------------------------|-----------------------|-----------|-----------------------------|
| Nameplate Data         |    |              | 230 V, 60 Hz:<br>High Voltage Connection |                         |                       |           |                             |
| Rated Output (HP)      |    | 2            | Full Load Torque                         |                         | 3 LB-FT               |           |                             |
| Volts                  |    | 115/230      | Start Configuration                      |                         | direct on line        |           |                             |
| Full Load Amps         |    | 23/11.5      | Breakdown Torque                         |                         | 9 LB-FT               |           |                             |
| R.P.M.                 |    | 3450         | Pull-up Torque                           |                         | 6 LB-FT               |           |                             |
| Hz                     | 60 | Phase        | 1                                        | Locked-rotor Torque     |                       | 7.5 LB-FT |                             |
| NEMA Design Code       |    | L            | KVA Code                                 | K                       | Starting Current      |           | 78 A                        |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current         |                       | 6 A       |                             |
| NEMA Nom. Eff.         |    | 74           | Power Factor                             | 82                      | Line-line Res. @ 25°C |           | 0.864 Ω A Ph<br>1.26 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load |                       | 82°C      |                             |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load  |                       | 91°C      |                             |

## Load Characteristics 230 V, 60 Hz, 2 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 50   | 65   | 75   | 81   | 85   | 87   | 83   |
| Efficiency      | 49.1 | 64.2 | 70.5 | 73.4 | 74.3 | 74.1 | 73.9 |
| Speed           | 3569 | 3548 | 3524 | 3499 | 3471 | 3438 | 3482 |
| Line amperes    | 6.65 | 7.75 | 9.2  | 10.9 | 12.9 | 15.1 | 12.1 |

ABB Motors and Mechanical Inc.

WINDING # 35WG0506

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 230 V 3535L

TORQUES (LB-FT) : PO=9 PU=6 LR=7.5 LRA=78





