

# PRODUCT INFORMATION PACKET



Model No: 6510VUI  
Catalog No: 6510VUI

EVERGREEN® VS Fan and Blower Motor, 1 HP, 1 Ph, 60/50 Hz, 120/240 V, 1050 RPM, 1 Speed, 48 Frame,  
OPAO



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### Nameplate Specifications

|                    |                     |                     |               |
|--------------------|---------------------|---------------------|---------------|
| Phase              | 1                   | Output HP           | 1 Hp          |
| Output KW          | 0.75 kW             | Voltage             | 120/240 V     |
| Speed              | 1050 rpm            | Service Factor      | 1             |
| Frame              | 48                  | Enclosure           | Open Air Over |
| Thermal Protection | No Protection       | Ambient Temperature | 40 °C         |
| Frequency          | 60/50 Hz            | Current             | 12.8/7.4 A    |
| Duty               | Continuous Air Over | Insulation Class    | B             |
| UL                 | No                  | CSA                 | N             |
| CE                 | N                   | A2L Status          | A2L Certified |
| Number of Speeds   | 1                   |                     |               |

### Technical Specifications

|                       |                                 |                    |              |
|-----------------------|---------------------------------|--------------------|--------------|
| Electrical Type       | Electronically Commutated Motor | Poles              | 12           |
| Rotation              | Counterclockwise/Clockwise      | Mounting           | Round        |
| Motor Orientation     | Vsd                             | Drive End Bearing  | Ball         |
| Opp Drive End Bearing | Ball                            | Frame Material     | Rolled Steel |
| Shaft Type            | Flat                            | Overall Length     | 12.71 in     |
| Frame Length          | 5.57 in                         | Shaft Diameter     | 0.500 in     |
| Shaft Extension       | 5.00 in                         |                    |              |
| Outline Drawing       | 5SME39SXL3222                   | Connection Drawing | N/R          |

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CONNECTOR ID

DESCRIPTION

+V

12V INPUT

Tx

SERIAL DATA OUTPUT

Rx

SERIAL DATA INPUT

C

COMMON

JMP

JUMPER APPLICATION FOR 120VAC LINE INPUT ONLY  
SEE NOTE 4

GROUND

N

AC LINE

L1

AC LINE

NOTE - 1

FOR VUI MOTOR (5SME39SXL3222A), USE #CPN 6510VUI

FOR VS MOTOR (5SME39SXL3222), USE #CPN 6510V

NAMEPLATE DATA

MODEL

SEE NOTE - 1

CPN/STOCK NO

SEE NOTE - 1

HP

1HP

RPM

1050

VOLTS

120/240

HZ

60/50

AMPS

12.8/7.4

ROTATION

CCW/CW

MTG. POSITION

VSD

VENTILATION SYSTEM

SHELL VENTS

OPEN

ENDSHIELD (LE)

NA

ENDSHIELD (OLE)

CLOSED

SEE TABLE FOR CONNECTION DEFINITIONS

SEE NOTE 2

1. BELLY BAND MUST BE PLACED WITHIN AREA "A" ONLY

2. OPTIONAL EXTERNAL #8 SELF TAPPING GROUND SCREW AND TERMINAL MAY BE PROVIDED BY CUSTOMER AT LOCATION SHOWN.

3. SUGGESTED MATING CONNECTORS:  
5 PIN CONNECTOR - TYCO 350809-1  
4 PIN CONNECTOR - TYCO 350779-1  
SOCKET (TIN) - FOR .060-.130 WIRE INS. DIA RANGE - TYCO 350536-1  
FOR .130-.200 WIRE INS. DIA RANGE - TYCO 350537-1

4. WARNING: APPLYING 240VAC LINE INPUT WITH JUMPER APPLIED WILL PERMANENTLY DAMAGE UNIT.

DRAWING REVISION  
E

REVISION BY  
SAI KIRAN.R

REV DATE/© DATE  
8/7/2023

REQUEST NUMBER  
ECR-0227061

APPROVED BY  
DON.S

DATE  
8/7/2023

REQUEST NUMBER DESCRIPTION  
UPDATED AS PER ECR-0227061

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PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

"C" MAX

"AG" MAX

3.21 AREA "A"  
SEE NOTE 1

Ø 5.58

"K" MIN

Ø .5000  
.4995

.458  
.448  
FLAT

"XA"

N<sup>+0.09</sup>  
-0.00

12.71

5.00

4.50

5.57

7.71

"C"

"N"

"K"

"XA"

"AG"

DRAWN BY  
KEP

DATE  
11/20/2017

APPROVED BY  
ANDREA

DATE  
11/20/2017

REFERENCE  
-

THIRD ANGLE  
PROJECTION

SIZE  
B

DRAWING NUMBER  
5SME39SXL3222

SHEET  
1 OF 1

Regal Beloit America, Inc.

DESCRIPTION  
OUTLINE  
ECM EVERGREEN VUI - 1HP

MATERIAL  
-

PROCESS/FINISH  
-

4

3

2

1

3 of 7

## Winding and Test Specification

WTS # 24X331998-1

Revision # 1

Rev. Date : Jul 13, 2018

First Made for :

## WTS Nameplate Data

|            |  |           |            |
|------------|--|-----------|------------|
| Horsepower |  | RPM       |            |
| Voltage    |  | Amps      | 12.80 9.10 |
| Frequency  |  | Phases    | 1          |
| Capacitor  |  | Cap Volts |            |

Test Volts : Low Spd St Volts :

Test Frequency :

Test Instructions : 24A105040AA-P1

## Winding

## Resistance

|        | Min  | Nominal | Max  |
|--------|------|---------|------|
| Main * | 2.32 | 2.45    | 2.57 |
| X Main | 2.32 | 2.45    | 2.57 |
| Y Main |      |         |      |
| Z Main |      |         |      |
| W Main |      |         |      |
| Start  | 2.32 | 2.45    | 2.57 |

## N. L. Performance Data

|           | Amps    | Watts   |     | Cap. Volts |
|-----------|---------|---------|-----|------------|
|           | Nominal | Nominal | Max |            |
| High      |         |         |     |            |
| Med. High |         |         |     |            |
| Medium    |         |         |     |            |
| Med. Low  |         |         |     |            |
| Low       |         |         |     |            |

## Full Load Performance

| Amps    |     | Watts   |     | Speed   | Torque |         |
|---------|-----|---------|-----|---------|--------|---------|
| Nominal | Max | Nominal | Max | Nominal | Min    | Nominal |
|         |     |         |     |         |        |         |
|         |     |         |     |         |        |         |
|         |     |         |     |         |        |         |
|         |     |         |     |         |        |         |
|         |     |         |     |         |        |         |

## Max. Torque

|           | RPM | Torque |         |
|-----------|-----|--------|---------|
|           |     | Min    | Nominal |
| High      |     |        |         |
| Med. High |     |        |         |
| Medium    |     |        |         |
| Med. Low  |     |        |         |
| Low       |     |        |         |

## Locked Rotor

| Amps    | Watts   | Torque  |
|---------|---------|---------|
| Nominal | Nominal | Nominal |
|         |         |         |
|         |         |         |
|         |         |         |
|         |         |         |
|         |         |         |

## Customer/Special Load Points

|           | Speed   | Torque |         | Watts   |     | Amps    |     |
|-----------|---------|--------|---------|---------|-----|---------|-----|
|           | Nominal | Min    | Nominal | Nominal | Max | Nominal | Max |
| High      |         |        |         |         |     |         |     |
| Med. High |         |        |         |         |     |         |     |

|  |          |  |  |  |  |  |  |  |
|--|----------|--|--|--|--|--|--|--|
|  | Medium   |  |  |  |  |  |  |  |
|  | Med. Low |  |  |  |  |  |  |  |
|  | Low      |  |  |  |  |  |  |  |

\* Large wire size may be double stranded.

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## Motor Details



|                                     |                              |                         |                                |
|-------------------------------------|------------------------------|-------------------------|--------------------------------|
| <b>Model :</b>                      | <b>5SME39SXL3222</b>         | <b>Catalog Number :</b> | <b>N/A</b>                     |
| <b>General:</b>                     |                              |                         |                                |
| Application :                       | <b>INDOOR INT CONTROL</b>    | Motor Category :        | <b>COMPLETE MOTOR</b>          |
| Phases :                            | <b>1</b>                     | Production Status :     | <b>PROD</b>                    |
| # of Speeds :                       | <b>1</b>                     | Stock Status :          |                                |
| Testspec :                          | <b>24X331998-1</b>           | Approved For Sale :     |                                |
| Horiz/Vertical :                    | <b>VSD</b>                   | Restricted Model :      |                                |
| Shell Enclosure :                   | <b>OPEN</b>                  | Customer :              | <b>DEF PUR</b>                 |
| Endshield Enclosure :               | <b>CLOSED</b>                | Customer Part# :        | <b>6510V</b>                   |
| <b>Nameplate Data:</b>              |                              |                         |                                |
| Horsepower :                        | <b>1</b>                     | GE Type :               | <b>SME</b>                     |
| RPM :                               | <b>1050</b>                  | Time Rating :           | <b>CAO</b>                     |
| Voltage :                           | <b>120/240</b>               | Frequency :             | <b>60/50</b>                   |
| FL Amps :                           | <b>12.8/7.4</b>              | Insulation Class:       | <b>B</b>                       |
| Capacitor 1mFd/V :                  | <b>N/R</b>                   | Capacitor 2mFd/V :      | <b>N/R</b>                     |
| Additional Information :            | <b>N/R</b>                   |                         |                                |
| <b>Miscellaneous:</b>               |                              |                         |                                |
| Fullload RPM - HI :                 |                              | GE Frame :              | <b>39</b>                      |
| Poles :                             | <b>12</b>                    | Shell Length :          | <b>5.57</b>                    |
| Rotation :                          | <b>CCW/CW</b>                | Drains :                | <b>Y</b>                       |
| Thermal Protection :                |                              | Est. Weight :           | <b>20</b>                      |
| Finish Color:                       | <b>GREEN</b>                 | Capacitor By :          | <b>N/R</b>                     |
| <b>OVERLOAD INFORMATION::</b>       |                              |                         |                                |
| Protector:                          | <b>N/R</b>                   | Overload Temp :         | <b>N/A</b>                     |
| Catalog No:                         | <b>N/A</b>                   | Vendor Name:            | <b>N/A</b>                     |
| <b>THERMAL CUT-OFF INFORMATION:</b> |                              |                         |                                |
| TCO:                                | <b>N/A</b>                   | Overload Temp :         | <b>N/A</b>                     |
| Catalog No:                         | <b>N/A</b>                   | Vendor Name:            | <b>N/A</b>                     |
| <b>U.L.CONSTRUCTION FILES:</b>      |                              |                         |                                |
| Motor Construction:                 | <b>E46035(excluding SME)</b> | Class B Insulation :    | <b>E306343(excluding SME)</b>  |
| Over Load :                         | <b>E27885(excluding SME)</b> | CSA(REY) :              | <b>MC236833(excluding SME)</b> |
| <b>Shaft:</b>                       |                              |                         |                                |
| PE Type :                           | <b>FLAT</b>                  | OPE Type :              | <b>N/R</b>                     |
| PE Length :                         | <b>5.00</b>                  | OPE Length :            | <b>N/R</b>                     |
| PE Diameter :                       | <b>.5</b>                    | OPE Diameter :          | <b>0</b>                       |
| PE Flat Length :                    | <b>4.50</b>                  | OPE Flat Length :       | <b>N/R</b>                     |
| <b>Endshields:</b>                  |                              |                         |                                |
| PE Material :                       | <b>AL</b>                    | OPE Material :          | <b>AL</b>                      |
| PE Hub Type :                       | <b>FLAT</b>                  | OPE Hub Type :          | <b>FLAT</b>                    |
| PE Oiler :                          | <b>N/R</b>                   | OPE Oiler :             | <b>N/R</b>                     |
| PE Oil Plug :                       | <b>N/R</b>                   | OPE Oil Plug :          | <b>N/R</b>                     |
| PE Mounting Holes :                 | <b>N/R</b>                   | OPE Mounting Holes :    | <b>N/R</b>                     |
| <b>Bearings:</b>                    |                              |                         |                                |
| PE Bearing Type :                   | <b>BALL</b>                  | OPE Bearing Type :      | <b>BALL</b>                    |
| Bearing Protection :                | <b>No</b>                    | Rohs Compliant :        | <b>No</b>                      |
| <b>Mounting:</b>                    |                              |                         |                                |
| Base :                              | <b>N/R</b>                   | Lug :                   | <b>N/R</b>                     |
| Clamp Screw :                       | <b>Yes</b>                   | Weld Screw :            | <b>No</b>                      |
| <b>Extended Clamp Screws:</b>       |                              |                         |                                |
| PE Pattern :                        |                              | OPE Pattern :           |                                |
| PE Length :                         | <b>0</b>                     | OPE Length :            | <b>0</b>                       |
| PE Nut Qty :                        | <b>0</b>                     | OPE Nut Qty :           | <b>0</b>                       |
| Head End :                          | <b>PE</b>                    | Screw Size :            | <b>#8</b>                      |
| Nut Thickness :                     | <b>.12</b>                   |                         |                                |
| <b>Lead &amp; Cord :</b>            |                              |                         |                                |
| Lead End :                          | <b>OPE</b>                   | Lead Type :             | <b>SINGLE COND</b>             |
| Lead Exit H/W :                     | <b>N/R</b>                   | Lead Harness Desc :     | <b>LEAD HARNESS</b>            |

Lead Exit H/W Orient. : **N/R****Note** : Exit position is viewed from the Lead End with the Shell Weld at 6:00.**Grounding** :

|             |            |                          |                                                          |
|-------------|------------|--------------------------|----------------------------------------------------------|
| Type :      | <b>N/R</b> | Location :               | <b>N/R</b> viewed from <b>N/R</b> with Oil boss at 12:00 |
| Exit Type : | <b>N/R</b> | AWG Size :               | <b>0</b>                                                 |
| Length :    | <b>N/R</b> | Color :                  | <b>N/R</b>                                               |
| Terminal :  | <b>N/R</b> | Ins.Material & Thickness | <b>N/R N/R</b>                                           |

**Diagrams and Dimensions** :

|                      |                        |                    |              |
|----------------------|------------------------|--------------------|--------------|
| Outline Drawing :    | <b>5SME39SXL3222</b>   | C-Dimension :      | <b>12.71</b> |
| Connection Diagram : | <b>423B631 Fig# 35</b> | Connection Label : | <b>N/R</b>   |

**Notes** :

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