

PRODUCT INFORMATION PACKET



Model No: 6505VUI

Catalog No: 6505VUI

EVERGREEN® VS Fan and Blower Motor, 1/2 HP, 1 Ph, 60/50 Hz, 120/240 V, 1050 RPM, 1 Speed, 48 Frame, OPAO



Regal and Genteq are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2026 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

Phase	1	Output HP	1/2 Hp
Output KW	0.37 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	7.7/4.3 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	11.21 in
Frame Length	4.07 in	Shaft Diameter	0.500 in
Shaft Extension	5.00 in		
Connection Drawing	N/R	Outline Drawing	5SME39HXL3224

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:09/02/2026

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 (5SME39HXL3224A), USE #CPN 6505VUI
- FOR VS MOTOR (5SME39HXL3224), USE #CPN 6505V

NAMEPLATE DATA

MODEL	SEE NOTE - 1
CPN/STOCK NO	SEE NOTE - 1
HP	1/2
RPM	1050
VOLTS	120/240
HZ	60/50
AMPS	7.7/4.3
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

VIEW A-A

3.21 AREA "A" SEE NOTE 1

NOTES:

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

COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

PRIMARY DIMENSIONS ARE INCH

mm DIMENSIONS IN [BRACKETS]

ARE FOR REFERENCE ONLY

DRAWN BY KEP

DATE 11/22/2017

APPROVED BY ANDREA

DATE 11/22/2017

REFERENCE -

THIRD ANGLE PROJECTION

Regal Rexnord

Regal Beloit America, Inc.

DESCRIPTION

OUTLINE

ECM EVERGREEN VUI

MATERIAL -

PROCESS/FINISH -

SIZE B

DRAWING NUMBER 5SME39HXL3224

SHEET 1 OF 1

11.21

5.00

4.50

4.07

6.21

"C"

"N"

"K"

"XA"

"AG"

4

3

2

1

3 of 7

Winding and Test Specification

WTS # 24X331992-1

Revision # 1

Rev. Date : Jul 13, 2018

First Made for :

WTS Nameplate Data

Horsepower		RPM	
Voltage		Amps	6.40 4.30
Frequency		Phases	1
Capacitor		Cap Volts	

Test Volts : Low Spd St Volts :

Test Frequency :

Test Instructions : 24A105040AA-P1

Winding

Resistance

	Min	Nominal	Max
Main *	5.10	5.37	5.64
X Main	5.10	5.37	5.64
Y Main			
Z Main			
W Main			
Start	5.10	5.37	5.64

N. L. Performance Data

	Amps	Watts		Cap. Volts
	Nominal	Nominal	Max	
High		3090	3708	
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
		0.6

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.

Regal Beloit Confidential Information



Motor Details

Model :	5SME39HXL3224	Catalog Number :	N/A
General:			
Application :	INDOOR INT CONTROL	Motor Category :	COMPLETE MOTOR
Phases :	1	Production Status :	PROD
# of Speeds :	1	Stock Status :	
Testspec :	24X331992-1	Approved For Sale :	
Horiz/Vertical :	VSD	Restricted Model :	
Shell Enclosure :	OPEN	Customer :	DEF PUR
Endshield Enclosure :	CLOSED	Customer Part# :	6505VUI
Nameplate Data:			
Horsepower :	1/2	GE Type :	SME
RPM :	1050	Time Rating :	CAO
Voltage :	120/240	Frequency :	60/50
FL Amps :	7.7/4.3	Insulation Class:	B
Capacitor 1mFd/V :	N/R	Capacitor 2mFd/V :	N/R
Additional Information :	55 DEG C AMBIENT		
	N/R		
Miscellaneous:			
Fullload RPM - HI :		GE Frame :	39
Poles :	12	Shell Length :	4.07
Rotation :	CCW/CW	Drains :	Y
Thermal Protection :		Est. Weight :	12
Finish Color:	GREEN	Capacitor By :	N/R
OVERLOAD INFORMATION::			
Protector:	N/R	Overload Temp :	N/A
Catalog No:	N/A	Vendor Name:	N/A
THERMAL CUT-OFF INFORMATION:			
TCO:	N/A	Overload Temp :	N/A
Catalog No:	N/A	Vendor Name:	N/A
U.L.CONSTRUCTION FILES:			
Motor Construction:	E46035(excluding SME)	Class B Insulation :	E306343(excluding SME)
Over Load :	E27885(excluding SME)	CSA(REY) :	MC236833(excluding SME)
Shaft:			
PE Type :	FLAT	OPE Type :	N/R
PE Length :	5.00	OPE Length :	N/R
PE Diameter :	.5	OPE Diameter :	0
PE Flat Length :	4.50	OPE Flat Length :	N/R
Endshields:			
PE Material :	AL	OPE Material :	AL
PE Hub Type :	FLAT	OPE Hub Type :	FLAT
PE Oiler :	N/R	OPE Oiler :	N/R
PE Oil Plug :	N/R	OPE Oil Plug :	N/R
PE Mounting Holes :	N/R	OPE Mounting Holes :	N/R
Bearings:			
PE Bearing Type :	BALL	OPE Bearing Type :	BALL
Bearing Protection :	No	Rohs Compliant :	No
Mounting:			
Base :	N/R	Lug :	N/R
Clamp Screw :	Yes	Weld Screw :	No
Extended Clamp Screws:			
PE Pattern :		OPE Pattern :	
PE Length :	0	OPE Length :	0
PE Nut Qty :	0	OPE Nut Qty :	0
Head End :	PE	Screw Size :	#8
Nut Thickness :	.12		
Lead & Cord :			
Lead End :	OPE	Lead Type :	SINGLE COND
Lead Exit H/W :	N/R	Lead Harness Desc :	N/R

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

Diagrams and Dimensions :

Outline Drawing :	5SME39HXL3224	C-Dimension :	11.21
Connection Diagram :	423B631 Fig# 35	Connection Label :	N/R

Notes :

This document is the property of the Regal Beloit Company containing proprietary and confidential information.

Date of last revision : **26-MAY-23**

