

# PRODUCT INFORMATION PACKET



Model No: 5SME39HXL697I-S  
Catalog No: 5SME39HXL697I-S  
1/2HP,208-230V,1050RPM,60/50HZ,ECM MOTOR

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**Nameplate Specifications**

Phase	1	Output HP	1/2 Hp
Voltage	208-230 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	4.1 A	Duty	Continuous Air Over
Insulation Class	B	UL	Recognized
CSA	Y	CE	N
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	9.67 in
Frame Length	4.82 in	Shaft Diameter	0.500 in
Shaft Extension	3.92 in		
Outline Drawing	5SME39HXL697I	Connection Drawing	24X328008

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## Winding and Test Specification

**WTS # 24X332717-1**

<b>Revision # 2</b>	<b>Revised By : LONG</b>	<b>Rev. Date : Jul 13, 2018</b>	<b>First Made for :</b>
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**Comments : UPDATED COPPER WEIGHT PER ECO-0148493**

Engineering Data				WTS Nameplate Data			
<b>Frame</b>	39	<b>Stator Punching</b>	24C301024	<b>Horsepower</b>	1/2	<b>RPM</b>	1050
<b>Motor Type</b>	SME	<b>Rotor Punching</b>		<b>Voltage</b>	277/208- 230/115	<b>Amps</b>	4.10 6.80
<b>Air Gap</b>	.012	<b>PE Endring</b>		<b>Frequency</b>	60/50	<b>Phases</b>	1
<b>Stack</b>	1.50	<b>OPE Endring</b>		<b>Capacitor</b>		<b>Cap Volts</b>	
<b>Con. Diag.</b>	423B631FIG35	<b>Skew, Electric</b>	11°	<b>Test Volts : 115</b> <b>Low Spd St Volts :</b> <b>Test Frequency : 60</b> <b>Test Instructions : 24A105040AA-P1</b>			
<b>Wdg. Diag.</b>	24C303033	<b>Rotor Resistance</b>					
<b>Engineer</b>	PALESH DUUVURI	<b>Max Space Factor</b>	.39				
<b>Spl. Insul.</b>		<b>Energy SaverLbl</b>	No				
<b>Design Type</b>		<b>Steel mat'l code</b>					
<b>Magnet Length</b>	1.8	<b>Control Type</b>	Trapezoid				
<b>Magnet Material</b>	Std Fer24B202126	<b>Rotor Type</b>	Surface Mnt				

Winding	Winding Characteristics								Resistance			Tap (Coil#)
	Poles	N1e	Strands	Wire Size	Wire Spec	Shift	Turns	Weight	Min	Nominal	Max	
<b>Main *</b>	12		1	0.0239	B50FG145	0	150	0.52	6.17	6.50	6.83	
<b>X Main</b>	12		1	0.0239	B50FG145	-60	150	0.52	6.17	6.50	6.83	
<b>Y Main</b>												
<b>Z Main</b>												
<b>W Main</b>												
<b>Start</b>	12		1	0.0239	B50FG145	120	150	0.52	6.17	6.50	6.83	

	N. L. Performance Data				Full Load Performance						
	Amps	Watts		Cap. Volts	Amps		Watts		Speed	Torque	
	Nominal	Nominal	Max		Nominal	Max	Nominal	Max	Nominal	Min	Nominal
<b>High</b>	3.55	33	40								
<b>Med. High</b>											
<b>Medium</b>											
<b>Med. Low</b>											
<b>Low</b>											

	Max. Torque		
	RPM	Torque	
		Min	Nominal
<b>High</b>			
<b>Med. High</b>			
<b>Medium</b>			
<b>Med. Low</b>			
<b>Low</b>			

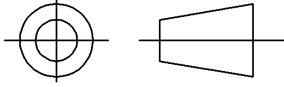
Locked Rotor		
Amps	Watts	Torque
Nominal	Nominal	Nominal

		Customer/Special Load Points						
		Speed	Torque		Watts		Amps	
		Nominal	Min	Nominal	Nominal	Max	Nominal	Max
	<b>High</b>							
	<b>Med. High</b>							
	<b>Medium</b>							
	<b>Med. Low</b>							
	<b>Low</b>							

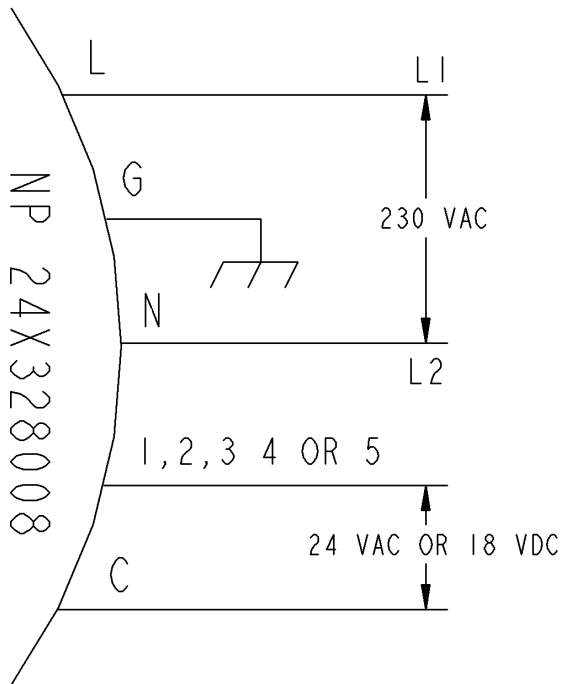
\* Large wire size may be double stranded.

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	2	THIRD ANGLE PROJECTION	REV.	DESCRIPTION	DATE	APPROVED
	1	2	1	MODIFIED PER ISAAC 05-1148	SURAJ 05/16/05	PALESH
			2	CHANGED "GE" FORMAT TO "RBC" FORMAT AS PER ISAAC 05-1777	GEETHA 09/05/05	PALESH



## 230V UNIT CONNECTION



FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
APPLIED PRACTICES	MODEL	
DIMENSIONS ARE IN INCHES	DETAIL	SREYAS 05/09/05
TOLERANCE ON:	CHECKED	
1 PL DECIMALS ± 0.1	ENGRG	
2 PL DECIMALS ± 0.01	MFG	
3 PL DECIMALS ± 0.005	QUALITY	
ANGLES ± 0.5	ISSUED	
FRACTIONS ±		
FINISH ✓		
MATERIAL	SOLID MODEL: MODEL NAME	

**REGAL-BELOIT CORPORATION**

TITLE

NAME PLATE CONNECTION DIAGRAM

FMF X-13 MODELS

SIZE	DRAWING	24X328008	REV 2
A			
SCALE:			SHEET 1 of 1

## Winding and Test Specification

**WTS # 24X332717-1**

<b>Revision # 2</b>	<b>Revised By : LONG</b>	<b>Rev. Date : Jul 13, 2018</b>	<b>First Made for :</b>
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<b>Motor Type</b>	SME	<b>Rotor Punching</b>		<b>Voltage</b>	277/208- 230/115	<b>Amps</b>	4.10 6.80
<b>Air Gap</b>	.012	<b>PE Endring</b>		<b>Frequency</b>	60/50	<b>Phases</b>	1
<b>Stack</b>	1.50	<b>OPE Endring</b>		<b>Capacitor</b>		<b>Cap Volts</b>	
<b>Con. Diag.</b>	423B631FIG35	<b>Skew, Electric</b>	11°	<b>Test Volts : 115</b> <b>Low Spd St Volts :</b> <b>Test Frequency : 60</b> <b>Test Instructions : 24A105040AA-P1</b>			
<b>Wdg. Diag.</b>	24C303033	<b>Rotor Resistance</b>					
<b>Engineer</b>	PALESH DUUVURI	<b>Max Space Factor</b>	.39				
<b>Spl. Insul.</b>		<b>Energy SaverLbl</b>	No				
<b>Design Type</b>		<b>Steel mat'l code</b>					
<b>Magnet Length</b>	1.8	<b>Control Type</b>	Trapezoid				
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Winding	Winding Characteristics								Resistance			Tap (Coil#)
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	N. L. Performance Data				Full Load Performance						
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	Nominal	Nominal	Max		Nominal	Max	Nominal	Max	Nominal	Min	Nominal
<b>High</b>	3.55	33	40								
<b>Med. High</b>											
<b>Medium</b>											
<b>Med. Low</b>											
<b>Low</b>											

	Max. Torque			Locked Rotor		
	RPM	Torque		Amps	Watts	Torque
		Min	Nominal	Nominal	Nominal	Nominal
<b>High</b>						
<b>Med. High</b>						
<b>Medium</b>						
<b>Med. Low</b>						
<b>Low</b>						

		Customer/Special Load Points						
		Speed	Torque		Watts		Amps	
		Nominal	Min	Nominal	Nominal	Max	Nominal	Max
	<b>High</b>							
	<b>Med. High</b>							
	<b>Medium</b>							
	<b>Med. Low</b>							
	<b>Low</b>							

\* Large wire size may be double stranded.

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## Motor Details



<b>Model :</b>	<b>5SME39HXL697I</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>24X332717-1</b>	Approved For Sale :	
Horiz/Vertical :	<b>VSD</b>	Restricted Model :	
Shell Enclosure :	<b>OPEN</b>	Customer :	<b>LENNOX INDUSTRIES</b>
Endshield Enclosure :	<b>CLOSED</b>	Customer Part# :	<b>104953-02</b>
<b>Nameplate Data:</b>			
Horsepower :	<b>1/2</b>	GE Type :	<b>SME</b>
RPM :	<b>1050</b>	Time Rating :	<b>CAO</b>
Voltage :	<b>208-230</b>	Frequency :	<b>60/50</b>
FL Amps :	<b>4.1</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>4.82</b>
Rotation :	<b>CCW/CW</b>	Drains :	<b>Y</b>
Thermal Protection :		Est. Weight :	<b>12</b>
Finish Color:	<b>STD GRAY</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>3.92</b>	OPE Length :	<b>N/R</b>
PE Diameter :		OPE Diameter :	
PE Flat Length :	<b>3.50</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 :		C-Dimension :	
Connection Diagram :	<b>423B631 Fig# 35</b>	Connection Label :	<b>24X328008</b>

**Notes** :

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Date of last revision : **03-FEB-23**

