

PRODUCT INFORMATION PACKET



Model No: 5SME39HXL743I
Catalog No: 5SME39HXL743I
1/2HP, 600-1200RPM,208-230V,ECM MOTOR

Regal and Genteq are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2025 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

Phase	1	Output HP	1/2 Hp
Voltage	208-230 V	Speed	600-1200 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	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	5SME39HXL743I	Connection Drawing	24X328008

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/19/2025

Winding and Test Specification

WTS # 24X332717-1

Revision # 2		Rev. Date : Jul 13, 2018	First Made for :
---------------------	--	---------------------------------	-------------------------

WTS Nameplate Data			
Horsepower	1/2	RPM	1050
Voltage	277/208- 230/115	Amps	4.10 6.80
Frequency	60/50	Phases	1
Capacitor		Cap Volts	
Test Volts : 115		Low Spd St Volts :	
Test Frequency : 60			
Test Instructions : 24A105040AA-P1			

Winding	Resistance		
	Min	Nominal	Max
Main *	6.17	6.50	6.83
X Main	6.17	6.50	6.83
Y Main			
Z Main			
W Main			
Start	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	Nominal	Max	Nominal	Min	Nominal		
High	3.55	33	40								
Med. High											
Medium											
Med. Low											
Low											

	Max. Torque		
	RPM	Torque	
		Min	Nominal
High			
Med. High			
Medium			
Med. Low			
Low			

Locked Rotor		
Amps	Watts	Torque
Nominal	Nominal	Nominal

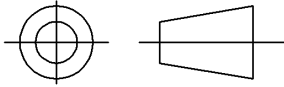
	Customer/Special Load Points						
	Speed	Torque		Watts		Amps	
	Nominal	Min	Nominal	Nominal	Max	Nominal	Max
High							

Med. High							
Medium							
Med. Low							
Low							

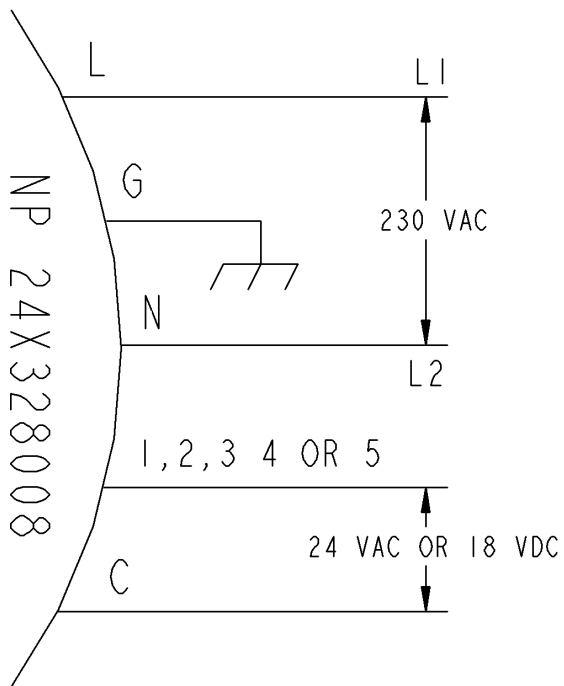
* Large wire size may be double stranded.

Regal Beloit Confidential Information

SHEET REV 24X328008 A	RBC PROPRIETARY AND CONFIDENTIAL INFORMATION This document is the property of REGAL BELOIT CORPORATION ("RBC") including its subsidiaries and divisions and contains proprietary information of RBC. This document is loaned on the express condition that neither it nor the information contained therein shall be disclosed to others without the express written consent of RBC, and that the information shall be used by the recipient only as approved expressly by RBC. This document shall be returned to RBC upon its request. This document may be subject to certain restrictions under U.S. export control laws and regulations.	REVISIONS				
	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	REV
A	24X328008	2
SCALE:		SHEET 1 of 1

Winding and Test Specification

WTS # 24X332717-1

Revision # 2		Rev. Date : Jul 13, 2018	First Made for :
---------------------	--	---------------------------------	-------------------------

WTS Nameplate Data			
Horsepower	1/2	RPM	1050
Voltage	277/208- 230/115	Amps	4.10 6.80
Frequency	60/50	Phases	1
Capacitor		Cap Volts	
Test Volts : 115			
Test Frequency : 60			
Test Instructions : 24A105040AA-P1			

Winding	Resistance		
	Min	Nominal	Max
Main *	6.17	6.50	6.83
X Main	6.17	6.50	6.83
Y Main			
Z Main			
W Main			
Start	6.17	6.50	6.83

	N. L. Performance Data			
	Amps	Watts		Cap. Volts
	Nominal	Nominal	Max	
High	3.55	33	40	
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.

Regal Beloit Confidential Information



Motor Details



Model :	5SME39HXL743I	Catalog Number :	N/A
General:			
Application :	INDOOR INT CONTROL	Motor Category :	COMPLETE MOTOR
Phases :	1	Production Status :	PROD
# of Speeds :	1	Stock Status :	
Testspec :	24X332717-1	Approved For Sale :	
Horiz/Vertical :	VSD	Restricted Model :	
Shell Enclosure :	OPEN	Customer :	ALLIEDAIR
Endshield Enclosure :	CLOSED	Customer Part# :	104953-08
Nameplate Data:			
Horsepower :	1/2	GE Type :	SME
RPM :	600-1200	Time Rating :	CAO
Voltage :	208-230	Frequency :	60/50
FL Amps :	4.1	Insulation Class:	B
Capacitor 1mFd/V :	N/R	Capacitor 2mFd/V :	N/R
Additional Information :	N/R		
Miscellaneous:			
Fullload RPM - HI :		GE Frame :	39
Poles :	12	Shell Length :	4.82
Rotation :	CCW	Drains :	Y
Thermal Protection :		Est. Weight :	12
Finish Color:	STD GRAY	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 :	3.92	OPE Length :	N/R
PE Diameter :		OPE Diameter :	
PE Flat Length :	3.50	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 :	CORD/PLUG ASM

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 :		C-Dimension :	
Connection Diagram :	423B631 Fig# 35	Connection Label :	24X328008

Notes :

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

Date of last revision : **25-NOV-22**

