

# SX-Series (Explosion Proof Servo Motors): Kinetix/Ultra Enabled List

Updated: 3 December, 2009

Column Notes:

db: X = model is included in the RA Custom Motion Database

Model/File Name: Model# and the name of database file (x=place holder for options that do not affect file)

Feedback: (10th digit in model#)

A = Resolver = 2pole, 0.25:1, 4.0 Khz, 6.0 Vrms brushless resolver

G = Incremental = 2000 line incremental encoder

S = Stegmann-Single = Stegmann High Resolution Single-turn Absolute Encoder

T = Stegmann-Multi = Stegmann High Resolution Multi-turn Absolute Encoder

Voltage: (9th digit in model #)

7 = 230V "UL Only"

9 = 460V "UL and ATEX"

8 = 230V "UL and ATEX"

A = 460V "UL Only"

Table 1: Standard SX-Series motor models listed in the motion database

db:	Model/File Name	Feedback	Voltage	Description
<b>3" Motors (One Stack)</b>				
X	M431-Nxxx-8Axx	Resolver	230V	3 inch, 1-stack, 10.39 lbin cont., 6210 RPM
X	M431-Nxxx-8Gxx	Incremental		
X	M431-Nxxx-8Sxx	Stegmann-Single		
X	M431-Nxxx-8Txx	Stegmann-Multi		
X	M431-Nxxx-9Axx	Resolver	460V	3 inch, 1-stack, <b>9.8 lbin cont.</b> , 6210 RPM
X	M431-Nxxx-9Gxx	Incremental		
X	M431-Nxxx-9Sxx	Stegmann-Single		
X	M431-Nxxx-9Txx	Stegmann-Multi		
<b>3" Motors (Two Stack)</b>				
X	M432-Nxxx-8Axx	Resolver	230V	3 inch, 2-stack, <b>20.8 lbin cont.</b> , 6210 RPM
X	M432-Nxxx-8Gxx	Incremental		
X	M432-Nxxx-8Sxx	Stegmann-Single		
X	M432-Nxxx-8Txx	Stegmann-Multi		
X	M432-Nxxx-9Axx	Resolver	460V	3 inch, 2-stack, <b>19.5 lbin cont.</b> , 6210 RPM
X	M432-Nxxx-9Gxx	Incremental		
X	M432-Nxxx-9Sxx	Stegmann-Single		
X	M432-Nxxx-9Txx	Stegmann-Multi		
<b>3" Motors (Three Stack)</b>				
X	M433-Mxxx-8Axx	Resolver	230V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 6210 RPM
X	M433-Mxxx-8Gxx	Incremental		
X	M433-Mxxx-8Sxx	Stegmann-Single		
X	M433-Mxxx-8Txx	Stegmann-Multi		
X	M433-Mxxx-9Axx	Resolver	460V	3 inch, 3-stack, <b>26.3lbin cont.</b> , 6210 RPM
X	M433-Mxxx-9Gxx	Incremental		
X	M433-Mxxx-9Sxx	Stegmann-Single		
X	M433-Mxxx-9Txx	Stegmann-Multi		

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db:	Model/File Name	Feedback	Voltage	Description
<b>4" Motors (Two Stack)</b>				
X	M442-Kxxx-8Axx	Resolver	230V	4 inch, 2-stack, <b>31.2 lbin cont.</b> , 5120 RPM
X	M442-Kxxx-8Gxx	Incremental		
X	M442-Kxxx-8Sxx	Stegmann-Single		
X	M442-Kxxx-8Txx	Stegmann-Multi		
X	M442-Kxxx-9Axx	Resolver	460V	4 inch, 2-stack, <b>29.3lbin cont.</b> , 5120 RPM
X	M442-Kxxx-9Gxx	Incremental		
X	M442-Kxxx-9Sxx	Stegmann-Single		
X	M442-Kxxx-9Txx	Stegmann-Multi		
<b>4" Motors (Three Stack)</b>				
X	M443-Kxxx-8Axx	Resolver	230V	4 inch, 3-stack, <b>41.5 lbin cont.</b> , 5120 RPM
X	M443-Kxxx-8Gxx	Incremental		
X	M443-Kxxx-8Sxx	Stegmann-Single		
X	M443-Kxxx-8Txx	Stegmann-Multi		
X	M443-Kxxx-9Axx	Resolver	460V	4 inch, 3-stack, <b>39.1lbin cont.</b> , 5120 RPM
X	M443-Kxxx-9Gxx	Incremental		
X	M443-Kxxx-9Sxx	Stegmann-Single		
X	M443-Kxxx-9Txx	Stegmann-Multi		
<b>4" Motors (Four Stack)</b>				
X	M444-Hxxx-8Axx	Resolver	230V	4 inch, 4-stack, <b>58.3 lbin cont.</b> , 3880 RPM
X	M444-Hxxx-8Gxx	Incremental		
X	M444-Hxxx-8Sxx	Stegmann-Single		
X	M444-Hxxx-8Txx	Stegmann-Multi		
X	M444-Hxxx-9Axx	Resolver	460V	4 inch, 4-stack, <b>54.2 lbin cont.</b> , 3880 RPM
X	M444-Hxxx-9Gxx	Incremental		
X	M444-Hxxx-9Sxx	Stegmann-Single		
X	M444-Hxxx-9Txx	Stegmann-Multi		



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Voltage: (9th digit in model #)

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Table 2: Additional (custom) SX-Series motor models listed in the motion database

db:	Model/File Name	Feedback	Voltage	Description
<b>3" Motors</b>				
X	M431-Nxxx-8Hxx	Incremental - <b>2048</b>	230V	3 inch, 1-stack, 10.39 <b>lbin cont.</b> , 6210 RPM
X	M433-Fxxx-9Txx	Stegmann-Multi	460V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 2900 RPM
X	M433-Hxxx-8Axx	Resolver	230V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-8Gxx	Incremental	230V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-8Sxx	Stegmann-Single	230V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-8Txx	Stegmann-Multi	230V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-9Axx	Resolver	460V	3 inch, 3-stack, <b>26.3 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-9Gxx	Incremental	460V	3 inch, 3-stack, <b>26.3 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-9Txx	Stegmann-Multi	460V	3 inch, 3-stack, <b>26.3 lbin cont.</b> , 3220 RPM
X	M433-Hxxx-9Mxx	Incremental - <b>4096</b>	460V	3 inch, 3-stack, <b>26.3 lbin cont.</b> , 3220 RPM
X	M433-Jxxx-8Gxx	Incremental	230V	3 inch, 3-stack, <b>28.0 lbin cont.</b> , 4100 RPM
<b>4" Motors</b>				
X	M442-Exxx-9Axx	Resolver	460V	4 inch, 2-stack, <b>29.3 lbin cont.</b> , 2670 RPM
X	M442-Exxx-9Gxx	Incremental	460V	4 inch, 2-stack, <b>29.3 lbin cont.</b> , 2670 RPM
X	M443-Exxx-9Txx	Stegmann-Multi	460V	4 inch, 3-stack, <b>39.1lbin cont.</b> , 2640 RPM
X	M444-Exxx-9Axx	Resolver	460V	4 inch, 4-stack, <b>54.2 lbin cont.</b> , 2960 RPM
X	M444-Exxx-9Sxx	Stegmann-Single	460V	4 inch, 4-stack, <b>54.2lbin cont.</b> , 2960 RPM
X	M444-Exxx-9Txx	Stegmann-Multi	460V	4 inch, 4-stack, <b>54.2lbin cont.</b> , 2960 RPM
<b>6" Motors</b>				
X	M463-Kxxx-9Sxx	Stegmann-Single	460V	6 inch, 3-stack, <b>119.2lbin cont.</b> , 4830 RPM
X	M463-Kxxx-9Txx	Stegmann-Multi	460V	6 inch, 3-stack, <b>119.2lbin cont.</b> , 4830 RPM
X	M465-Gxxx-9Sxx	Stegmann-Single	460V	6 inch, 5-stack, <b>170.1lbin cont.</b> , 3375 RPM
X	M465-Gxxx-9Txx	Stegmann-Multi	460V	6 inch, 5-stack, <b>170.1lbin cont.</b> , 3375 RPM