

# **LINEAR BRUSHLESS SERVO AMPLIFIERS SMA6310 MULTI AXIS MODEL NUMBERING**

This section explains the model numbering system for Glentek's SMA6310 Series High Performance Linear Brushless Servo Amplifiers. The model numbering system is designed so that you, our customer, will be able to quickly and accurately create the model number for the amplifier that best suits your needs.

In order to accurately select a complete part number, please follow the steps shown below:

- 1) Select the industry standard mounting configuration which meets your needs (i.e. Module, Stand Alone or Multi-Axis).
- 2) Utilize the model number key in conjunction with the tables at the beginning of each section to select the complete model number for your requirements. Note: A complete model number example follows the model number key and includes a full description of the individual codes which make up the complete model number.

## **LOGIC INPUT CONFIGURATION DESCRIPTION:**

There are four logic inputs: Limit+, Limit-, Inhibit and Reset In. They may be configured for active-high or active-low signals and pull-up or pull-down termination (type A, B, C and D). All logic inputs have selectable 0 to +5VDC or 0 to +15VDC range. Following is a description of the various types (A, B, C and D) and how they apply to the inhibit input:

Type "A": Requires grounding of input to disable the amplifier (pull-up, active-low).

Type "B": Requires a positive voltage at input to disable the amplifier (pull-down, active-high).

Type "C": Requires grounding of input to enable the amplifier (pull-up, active-high).

Type "D": Requires a positive voltage at input to enable the amplifier (pull-down, active-low).

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## *SMA6310 Amplifier Model Numbering*

The following tables are used to fill in the different parts of the model number. Refer to these when constructing a model number for your requirements.

<b>XXX</b>	<i>Bus Voltage (VDC)</i>	<i>Ic *</i> <i>(Amps Continuous)</i>	<i>Ip</i> <i>(Amps Peak)</i>
000	+/- 24-70	10	25

\* **Note:** Output power is rated 460 Watts/phase @ 25°C heat sink temperature.

<b>PPP</b>	<i>Description</i>
000	Standard

<b>MM</b>	<i>Mounting</i>
<i>omit</i>	1-axis Module
1A	1-axis Stand Alone
2A	2-axis Chassis
4A	4-axis Chassis

<b>N</b>	<i>Number of amplifiers installed</i>
1	One amplifier installed
2	Two amplifiers installed
3	Three amplifiers installed
4	Four amplifiers installed

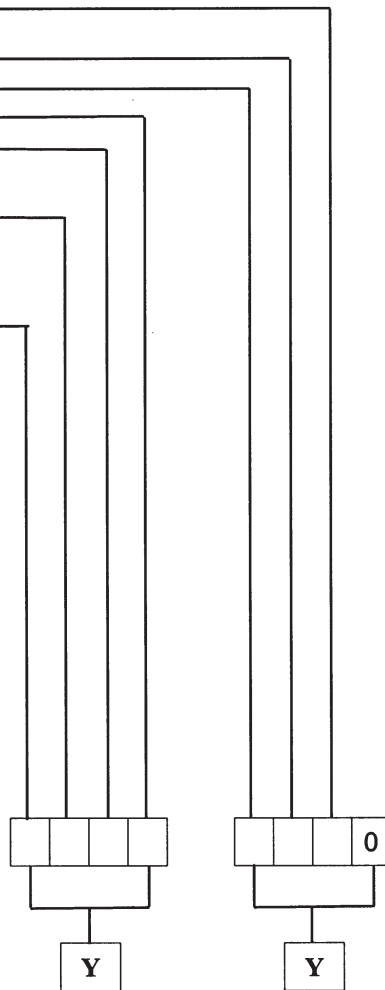
<b>ZZ</b>	<i>Power Supply Configuration</i>
<i>omit</i>	Amplifier module
00	17 VAC to 50 VAC
01	
02	

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## YY - Amplifier Configuration Code

<b>2/3 Phase Input Current:</b> 0 = 2 Phase; (Default) 1 = 3 Phase
<b>Inhibit</b> 0=L, 1=H
<b>Inhibit</b> 0=U, 1=D
<b>Reset</b> 0=L, 1=H
<b>Reset</b> 0=U, 1=D
<b>On Board Power Supply</b> +15V/+5V on pull-up: 0 = +15V; (Default) 1 = +5V
<b>Motor Temperature:</b> 0 = Type A; (Default) 1 = Type C

<b>Type A:</b> U=0 & L=0 (Default)
<b>Type B:</b> D=1 & H=1
<b>Type C:</b> U=0 & H=1
<b>Type D:</b> D=1 & L=0



4-BIT Binary to Hex Conversion Table	
0000=0	1000=8
0001=1	1001=9
0010=2	1010=A
0011=3	1011=B
0100=4	1100=C
0101=5	1101=D
0110=6	1110=E
0111=7	1111=F

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## *SMA6310 Multi-Axis Amplifier*

**SMA6310 - XXX – PPP - YY - MM - N - ZZ**

**Model number key:**

**SMA6310** - Designates a Linear Brushless Surface Mount Amplifier with 2-phase/3-phase Current Mode Commutation.

**XXX** - Power board Configuration Code.

**PPP** - Personality Board Tab.

**YY** - Logic Board Configuration Code.

**MM** - Mounting Configuration Code.

**N** - Number of amplifiers installed.

**ZZ** - Power Supply Configuration Code.

Example:

SMA6310 - 000 - 000 - 04 - 4A - 3 - 00 - 17 VAC to 50 VAC.

The diagram consists of several horizontal lines of varying lengths extending from the right side of the model number to the right. From the longest line (under '000') to the shortest line (under '3'), the descriptions are:

- Three amplifiers installed.
- 4-axis chassis.
- Type "A" motor temp. and reset, +15 VDC logic, Type "C" inhibit, 2-Phase Current Input.
- Standard Personality Board Tab.
- +/- 24 to +/- 70 VDC module operation.

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