

**ANALOG BRUSHLESS PWM SERVO AMPLIFIERS  
SMA8330, SMA83075 & SMA83100 AMPLIFIER MODEL NUMBERING**

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This section explains the model numbering system for Glentek's SMA8330, SMA83075 & SMA83100 Analog Brushless PWM 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 select the amplifier model number which meets your current requirements and then complete the amplifier configuration code per your requirements.

Note: A complete model number example follows each section and includes a full description of the individual codes which make up the complete model number.

**Stand-Alone Model Numbering**

**SMA83XXX—YYY—QQQ—1A—1—ZZ**

**Amplifier Model Number** \_\_\_\_\_

30 = SMA8330

075 = SMA83075

100 = SMA83100

**Amplifier Configuration Code** \_\_\_\_\_

(See Numbering Below)

**Optional Custom Configuration Code.** \_\_\_\_\_

(A numerical code will be assigned by Glentek to amplifiers whose specifications vary from the standard configuration.)

**Power Supply Configuration Code**

00 = 110-130 VAC, 1 or 3 Phase

01 = 208-240 VAC, 1 or 3 Phase

02 = Special

**1 Amplifier module mounted**

**Stand-alone Amplifier Designator**

Glentek, Inc.

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# ANALOG BRUSHLESS PWM SERVO AMPLIFIERS

## SMA8330, SMA83075 & SMA83100 AMPLIFIER MODEL NUMBERING

### 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).

### Amplifier Configuration Code

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

DC Bus Voltage
0=70 - 240 Vdc
1=240 - 350 Vdc
2=Special

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

4 Bit Binary-to-Hex Conversion	
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

Example: SMA83100 - 100 - 1A - 1 - 01

100 Amp Continuous.

240-340 VDC Module Operation, Type A Motor Temp.,  
+15VDC Logic, Type A Reset, Type A Inhibit,  
2-Phase current mode operation

208-240VAC Operation

1 amplifier installed

Single axis Stand-Alone Amplifier.

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