

## AC Spindle Drive Faults

### Alarm List for the following Drives:

**Model 1 A06B-6052-H001**

**Model 2 A06B-6052-H002**

**Model 3 A06B-6052-H003**

Alarm #	Led Display				Content of Alarms
	8	4	2	1	
1				o	Motor Overheat
2			o		Speed deviates from commanded speed
3			o	o	Regenerative fault
6		o	o		Excess Motor Speed Analog
7		o	o	o	Excess Motor Speed Digital
8	o				Voltage higher than specified
9	o			o	Radiator for power semiconductor overheat
10	o		o		+15Volt Supply is low
11	o		o	o	DC Link voltage is high
12	o	o			DC Link current is high
13	o	o		o	CPU and peripheral parts are defective
14	o	o	o		ROM is defective

### Alarm List for the following Drives:

**Model 3 thru Model 40 A06B-6044-Hxxx**

Alarm #	Led Display				Content of Alarms
	8	4	2	1	
1				o	Motor Overheat
2			o		Speed deviates from commanded speed
3			o	o	Fuse F7 in DC link is blown out.
4		o			Fuses F1,F2,F3 for AC input blown out.
5		o		o	Fuses AF2 or AF3 on PCB are blown out.
6		o	o		Excess Motor Speed Analog
7		o	o	o	Excess Motor Speed Digital
8	o				Voltage higher than specified (24v)
9	o			o	Radiator for power semiconductor overheat
10	o		o		+15Volt Supply is low
11	o		o	o	DC Link voltage is high
12	o	o			DC Link current is high
13	o	o		o	CPU and peripheral parts are defective
14	o	o	o		ROM is defective
15	o	o	o	o	Option circuit fault.

## Digital AC Spindle Drive

**Alarm List for the following drives:  
Model 3 thru 22 A06B-6055-Hxxx**

Alarm Display	Alarm Content
AL-01	Motor Overheated
AL-02	Speed deviates from commanded speed
AL-03	Fuse F7 in DC link is blown out.
AL-04	Fuses F1,F2,F3 for AC input blown out.
AL-06	Excess Motor Speed Analog
AL-07	Excess Motor Speed Digital
AL-08	Voltage higher than specified (24v)
AL-09	Radiator for power semiconductor overheat
AL-10	+15v power supply is abnormally low
AL-11	DC Link voltage is high
AL-12	DC Link current is high
AL-13	Data memory for CPU abnormal
AL-16	RAM in NVRAM is abnormal
AL-17	ROM in NVRAM is abnormal
AL-18	Check sum alarm of ROM
AL-19	Excessive alarm of U phase current detection circuit offset
AL-20	Excessive alarm of V phase current detection circuit offset
AL-21	Excessive alarm of velocity command circuit offset.
AL-22	Excessive alarm of velocity detection circuit offset.
AL-23	Excessive alarm of ER circuit offset.
AL-14	ROM is abnormal
AL-15	Spindle selection control circuit is abnormal.

**Alarm List for the following drives:  
Model 1S thru 3S A06B-6059-Hxxx**

Alarm #	Meaning
AL-01	Motor Overheat
AL-02	Speed deviates from commanded speed
AL-03	24v Fuse is blown. (before PCB edition 09A)
AL-04	
AL-05	
AL-06	Excess Motor Speed Analog
AL-07	Excess Motor Speed Digital
AL-08	Over voltage
AL-09	Overheat of radiator
AL-10	Low voltage of input power.
AL-11	Excessive high voltage of DC link
AL-12	Abnormal current of DC link
AL-13-15	
AL-16-23	Defective arithmetic circuit and peripheral circuit
No indication	Defective ROM

**Alarm List for the following drives:  
Model 6S-26S A06B-6059-Hxxx**

Alarm #	Meaning
AL-01	Motor Overheat
AL-02	Speed deviates from commanded speed
AL-03	24v Fuse is blown. (before PCB edition 09A)
AL-04	Open phase of input power.
AL-05	
AL-06	Excess Motor Speed Analog
AL-07	Excess Motor Speed Digital
AL-08	Over voltage
AL-09	Overheat of radiator
AL-10	Low voltage of input power.
AL-11	Excessive high voltage of DC link
AL-12	Abnormal current of DC link
AL-13	Defective arithmetic circuit
AL-14	Defective ROM
AL-15	Defective optional circuit.
AL-16-23	Defective arithmetic circuit and peripheral circuit
No indication	Defective ROM