

## Design Change Notification

August 25<sup>th</sup>, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 172 (9SG) Phi 172mm x 51mm thick

(Please refer Attached Sheet for a complete part number list.)

SANYO DENKI CO.,LTD.  
Design Dept., Cooling Systems Div.

Approved	Checked	Designed
		

SANYO DENKI America, Inc.  
Cooling Systems Division

No.	Contents	Before Change	After Change	Description
1	Motor drive IC, electronic parts, Motor Windings and PWB	Use motor drive IC manufactured by ON-Semiconductor.	Use motor drive IC manufactured by Microchip.	Change to the motor drive IC due to discontinuation of production by the semiconductor manufacturer. Also change to some electric parts except IC, Motor windings and PWB due to the change of the motor drive IC.
2	Specifications	See the Attached Sheet.	See the Attached Sheet.	
3	Implementation Date			Implementation Date: From February, 2023 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

**No. A0053389 - Attached Sheet 1**

[MODEL LIST]

San Ace 172 (9SG) – 172mm x 51mm thick

MODEL	Change contents
9SG5724A563 9SG5724H562 9SG5724H563-C 9SG5724H564 9SG5724H565-C	Attached Sheet 2
9SG5724A5D63 9SG5724A5D64	Attached Sheet 3
9SG5724P5H61 9SG5724P5H64 9SG5724P5H65 9SG5724P5H67 9SG5724P5H69 1032-106225	Attached Sheet 4
9SG5724P5HD61 9SG5724P5HD63	Attached Sheet 5
9SG5724V5H63	Attached Sheet 6
9SG5748F563 9SG5748H501 9SG5748H503-C 9SG5748H5J01 9SG5748H5J03	Attached Sheet 7

MODEL	Change contents
9SG5748P5G01 9SG5748P5G04 9SG5748P5G07 9SG5748P5G10 9SG5748P5G11 9SG5748P5G15 9SG5748P5G16 9SG5748P5G17 9SG5748P5G18 9SG5748P5H01 9SG5748P5H08 9SG5748P5H09 9SG5748P5G01-A01 1023-105874 1032-106226 1032-106227	Attached Sheet 8
9SG5748V5M04	Attached Sheet 9

**No. A0053389 - Attached Sheet 2**

[MODEL]

9SG5724A563,

9SG5724H562, 9SG5724H563-C, 9SG5724H564, 9SG5724H565-C

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	
Life Expectancy		No change	

**No. A0053389 - Attached Sheet 3**

[MODEL]

9SG5724A5D63, 9SG5724A5D64

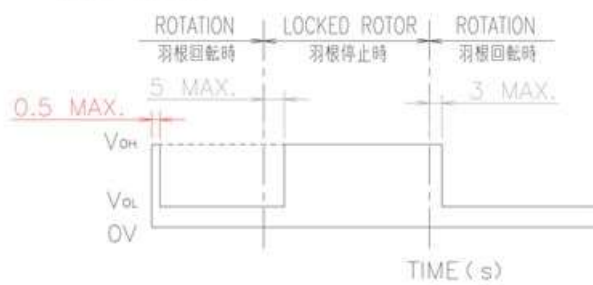
[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		Refer to Fig.1	
Life Expectancy		No change	

**FIG.1****Before Change**

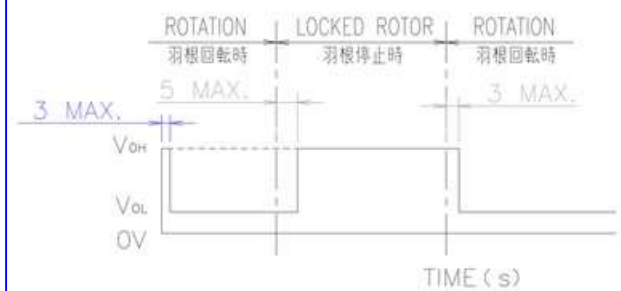
### 3. WAVEFORM OF SENSOR OUTPUT

センサー出力波形

**After Change**

### 3. WAVEFORM OF SENSOR OUTPUT

センサー出力波形



**No. A0053389 - Attached Sheet 4**

[MODEL]

9SG5724P5H61, 9SG5724P5H64, 9SG5724P5H65, 9SG5724P5H67, 9SG5724P5H69,  
1032-106225

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	
Life Expectancy		No change	

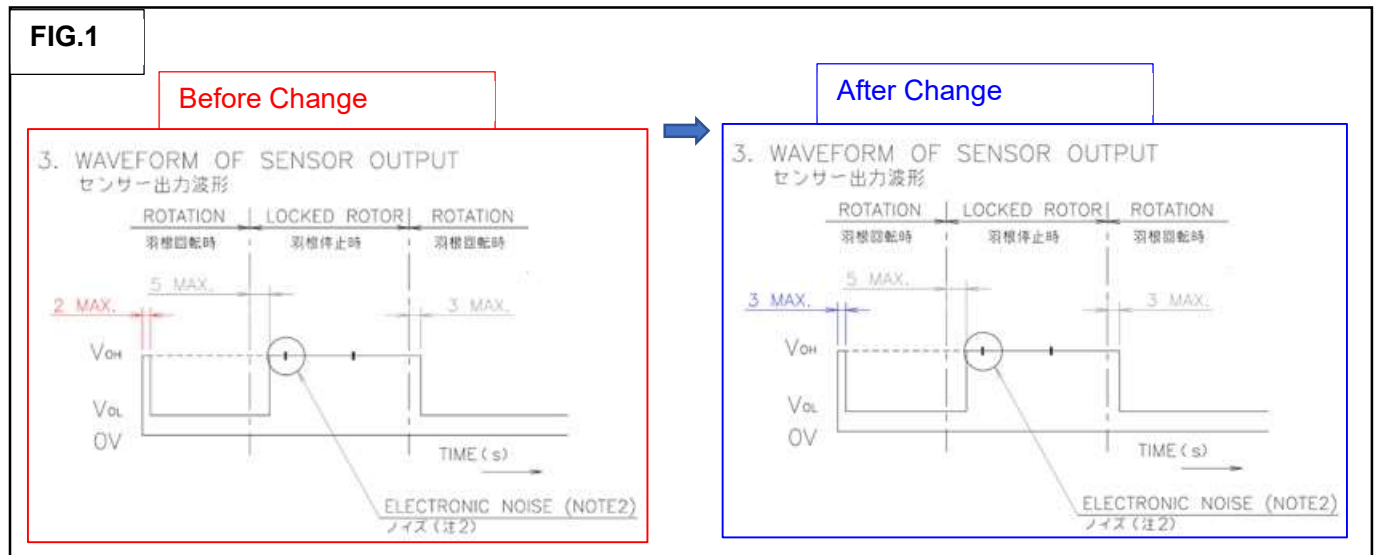
**No. A0053389 - Attached Sheet 5**

[MODEL]

9SG5724P5HD61, 9SG5724P5HD63

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		Refer to Fig.1	
Life Expectancy		No change	



**No. A0053389 - Attached Sheet 6**

[MODEL]

9SG5724V5H63

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
Control Input Voltage - Speed characteristic		No change	
Sensor spec.		No change	
Life Expectancy		No change	

**No. A0053389 - Attached Sheet 7**

[MODEL]

9SG5748F563,

9SG5748H501, 9SG5748H503-C, 9SG5748H5J01, 9SG5748H5J03

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	
Life Expectancy		No change	



**No. A0053389 - Attached Sheet 8**

[MODEL]

9SG5748P5G01, 9SG5748P5G04, 9SG5748P5G07, 9SG5748P5G10, 9SG5748P5G11, 9SG5748P5G15,  
 9SG5748P5G16, 9SG5748P5G17, 9SG5748P5G18,  
 9SG5748P5H01, 9SG5748P5H08, 9SG5748P5H09,  
 9SG5748P5G01-A01, 1023-105874, 1032-106226, 1032-106227

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	
Life Expectancy		No change	

**No. A0053389 - Attached Sheet 9**

[MODEL]

9SG5748V5M04

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11696	PIC16F1828
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
Control Input Voltage - Speed characteristic		No change	
Sensor spec.		No change	
Life Expectancy		No change	