

# Design Change Notification

August 25th, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 172W (9WG) 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 March, 2023 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

**No. A0053320 - Attached Sheet 1**

[MODEL LIST]

San Ace 172W (9WG) – 172mm x 51mm thick

MODEL	Change contents
9WG5748F5003-X	Attached Sheet 2
9WG5748F5004-X	
9WG5748H5001	
9WG5748H5002	
9WG5748H5003-X	
9WG5748H5004	
9WG5748H5005	
9WG5748H5006-X	
9WG5748H5007	
9WG5748G5002	
9WG5748G5003	
9WG5748G5004-X	
9WG5748G5004-X1	
9WG5748H5D001	

MODEL	Change contents
9WG5748P5H001	Attached Sheet 4
9WG5748P5H003	
9WG5748P5H003-X	
9WG5748P5H003-XA	
9WG5748P5H007	
9WG5748P5H009	
9WG5748P5H010	
9WG5748P5G001	
9WG5748P5G003	
9WG5748P5G003-X	
9WG5748P5G003-XA	
9WG5748P5G004	
9WG5748P5G005	
9WG5748P5G007-X	
9WG5748P5G008	
9WG5748P5G009	
9WG5748P5G010	
9WG5748P5G011	
9WG5748P5G013	
9WG5748P5K003-X	
1032-106229	
1032-106230	
9WG5748P5G001-A01	Attached Sheet 5
9WG5748P5HD004	
9WG5748P5GD003	
9WG5748P5GD004-X	
9WG5748P5GD004-X1	

**No. A0053320 - Attached Sheet 2**

[MODEL]

9WG5748F5003-X, 9WG5748F5004-X, 9WG5748H5001, 9WG5748H5002, 9WG5748H5003-X,  
 9WG5748H5004, 9WG5748H5005, 9WG5748H5006-X, 9WG5748H5007,  
 9WG5748G5002, 9WG5748G5003, 9WG5748G5004-X, 9WG5748G5004-X1

[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	

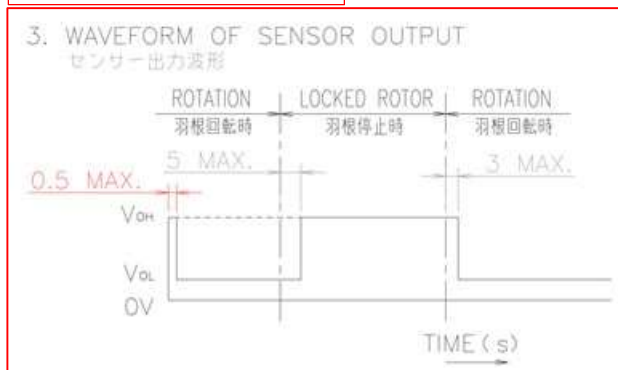
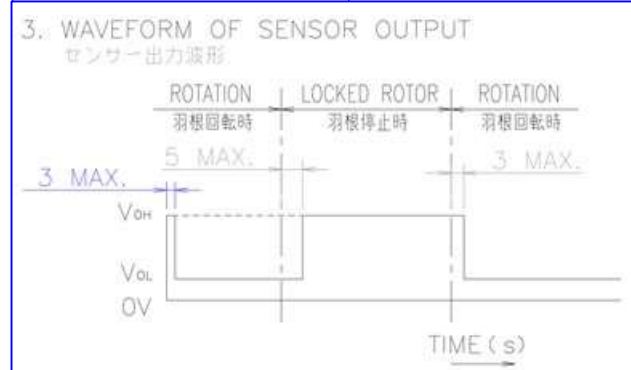
**No. A0053320 - Attached Sheet 3**

[MODEL]

9WG5748H5D001

[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****After Change**

**No. A0053320 - Attached Sheet 4**

[MODEL]

9WG5748P5H001, 9WG5748P5H003, 9WG5748P5H003-X, 9WG5748P5H007, 9WG5748P5H009,  
 9WG5748P5H010,  
 9WG5748P5G001, 9WG5748P5G003, 9WG5748P5G003-X, 9WG5748P5G004, 9WG5748P5G005,  
 9WG5748P5G007-X, 9WG5748P5G008, 9WG5748P5G009, 9WG5748P5G010, 9WG5748P5G011,  
 9WG5748P5G013,  
 9WG5748P5K003-X,  
 1032-106229, 1032-106230, 9WG5748P5G001-A01

[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. A0053320 - Attached Sheet 5**

[MODEL]

9WG5748P5HD004,

9WG5748P5GD003, 9WG5748P5GD004-X, 9WG5748P5GD004-X1

[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	

