Design Change Notification

July 18th, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 92W (9WL) 92mm sq. x 25mm thick (Please refer Attached Sheet for a complete part number list.)

SANYO DENKI CO.,LTD.

> 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 Toshiba, Rohm or Nisshinbo-Micro-Devices.	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. A0053246 - Attached Sheet 1 - 1/1

[MODEL LIST]

San Ace 92W (9WL) - 92mm x 25mm thick

MODEL	Change contents	
9WL0912J4002	Attached Sheet 2	
9WL0912G4003		
9WL0912S4003		
9WL0912H4001		
9WL0912H4002	A44 - 1 - 1 O1 1 O	
9WL0912M4001	Attached Sheet 3	
9WL0912M4002		
9WL0912P4J001		
9WL0912P4J003		
9WL0912P4J004	Attached Sheet 4	
9WL0912P4J005	Allactieu Stieel 4	
9WL0912P4G001		
9WL0912P4S001		
9WL0912P4H001	Attached Sheet 5	
9WL0924J4D001		
9WL0924S4D003		
9WL0924H4001		
9WL0924H4002		
9WL0924H4D001		
9WL0924F4001	Attached Sheet 6	
9WL0924F4002		
9WL0924M4001		
9WL0924M4002		
9WL0924M4D001		
9WL0924P4J001		
9WL0924P4J005		
9WL0924P4J006	Attached Sheet 7	
9WL0924P4S001		
9WL0924P4H001		

No. A0053246 - Attached Sheet 2 - 1/1

[MODEL]

9WL0912J4002,

9WL0912G4003,

9WL0912S4003

		Before Change	After Change
Motor drive IC	Type name	LB11660	BD69730 or BD6973
Motor drive iC	Manufacture	On-semiconductor	Rohm
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. A0053246 - Attached Sheet 3 - 1/1

[MODEL]

9WL0912H4001, 9WL0912H4002, 9WL0912M4001, 9WL0912M4002

		Before Change	After Change
Motor drive IC	Type name	LB11970	TC78B002FNG
	Manufacture	On-semiconductor	Toshiba
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. A0053246 - Attached Sheet 4 - 1/1

[MODEL]

9WL0912P4J001, 9WL0912P4J003, 9WL0912P4J004, 9WL0912P4J005, 9WL0912P4G001, 9WL0912P4S001

		Before Change	After Change
Matan daina 10	Type name	LB11660	BD69730 or BD6973
Motor drive IC	Manufacture	On-semiconductor	Rohm
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	

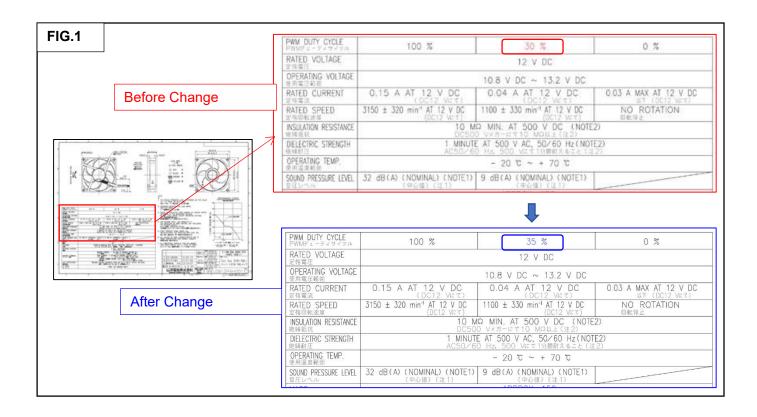
No. A0053246 - Attached Sheet 5 - 1/2

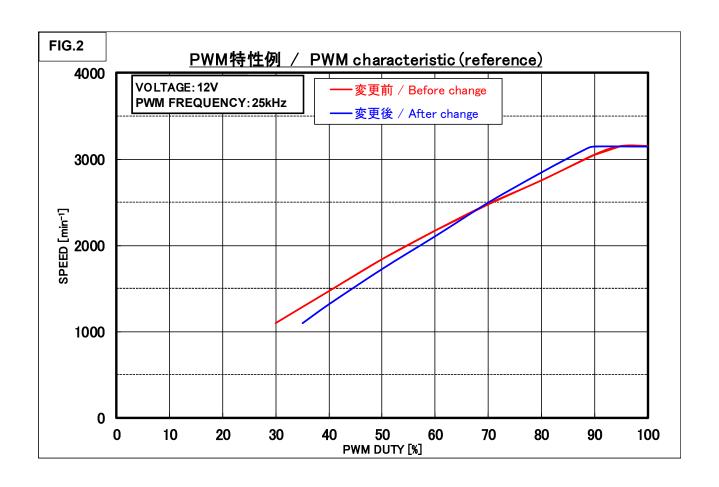
[MODEL]

9WL0912P4H001

		Before Change	After Change	
		•		
Motor drive IC	Type name	LB11970	TC78B002FNG	
	Manufacture	On-semiconductor	Toshiba	
Operating voltage		No change		
Electrical current		0.04[A] @ PWM 30%	0.04[A] @ PWM 35%	
		Refer to Fig.1	Refer to Fig.1	
Speed		1100 +/- 330 [min ⁻¹] @	1100 +/- 330 [min ⁻¹] @	
		PWM30%	PWM35%	
		Refer to Fig.1	Refer to Fig.1	
Operating temp.		No change		
Sound pressure level		9[dBA(A)] @ PWM 30%	9[dBA(A)] @ PWM 35%	
		Refer to Fig.1	Refer to Fig.1	
Control terminal		No change		
Air flow – static pressure character		No change		
PWM duty cycle - Speed characteristic		Refer to Fig.2		
Sensor spec.		No change		
Life Expectancy		No change		

No. A0053246 - Attached Sheet 5 - 2/2





No. A0053246 - Attached Sheet 6 - 1/1

[MODEL]

9WL0924J4D001,

9WL0924S4D003,

9WL0924H4001, 9WL0924H4002, 9WL0924H4D001,

9WL0924F4001, 9WL0924F4002,

9WL0924M4001, 9WL0924M4002, 9WL0924M4D001

		Before Change	After Change
		Delote Charige	Alter Change
Motor drive IC	Type name	LV8860	NJW4320
	Manufacture	On-semiconductor	Nisshinbo-Micro-Devices
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. A0053246 - Attached Sheet 7 - 1/1

[MODEL]

9WL0924P4J001, 9WL0924P4J005, 9WL0924P4J006, 9WL0924P4S001, 9WL0924P4H001

	Before Change	After Change
Type name	LV8860	NJW4320
Manufacture	On-semiconductor	Nisshinbo-Micro-Devices
	No change	
	Source current : 1 mA MAX. Refer to FIG.1	Source current : 2 mA MAX. Refer to FIG.1
sure character	No change	
eed characteristic	No change	
	No change	
	No change	
	Manufacture sure character	Type name LV8860 Manufacture On-semiconductor No ch No ch No ch No ch Source current: 1 mA MAX. Refer to FIG.1 sure character eed characteristic No ch

