

Design Change Notification

July 18th, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR _____

Model: San Ace 92L (9LG) 92mm sq. x 25mm 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 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. A0053242 - Attached Sheet 1 – 1/1**[MODEL LIST]**

San Ace 92L(9LG) – 92mm x 25mm thick

MODEL	Change contents
9LG0912J4003 9LG0912J4D001 9LG0912G4002 9LG0912G4003 9LG0912S4001 9LG0912S4002 9LG0912S4003 9LG0912S4004 9LG0912S4005 9LG0912S4D001 9LG0912S4D003	Attached Sheet 2
9LG0912H4001 9LG0912H4002 9LG0912H4002-C 9LG0912H4004 9LG0912H4005-C 9LG0912H4006-C 9LG0912H4007 9LG0912F4001 9LG0912F4002 9LG0912M4001 9LG0912M4002 9LG0912L4001 9LG0912L4002	Attached Sheet 3
9LG0912P4J001 9LG0912P4J001-3 9LG0912P4J003 9LG0912P4J004 9LG0912P4J005 9LG0912P4G001 9LG0912P4S001 9LG0912P4S003 9LG0912P4S004 9LG0912P4J001-A01	Attached Sheet 4
9LG0912P4H001 9LG0912P4H003	Attached Sheet 5

MODEL	Change contents
9LG0924J4D001 9LG0924J4D003 9LG0924S4D001 9LG0924S4D003 9LG0924H4001 9LG0924H4002 9LG0924H4D001 9LG0924H4D003-C 9LG0924H4H001 9LG0924F4001 9LG0924F4002 9LG0924F4D001 9LG0924M4001 9LG0924M4002 9LG0924M4D001 9LG0924L4001 9LG0924L4002 9LG0924L4D001	Attached Sheet 6
9LG0924P4J001 9LG0924P4J003 9LG0924P4J004 9LG0924P4J005 9LG0924P4J006 9LG0924P4J007 9LG0924P4G001 9LG0924P4S001 9LG0924P4H001 9LG0924P4HD001	Attached Sheet 7

No. A0053242 - Attached Sheet 2 - 1/1

[MODEL]

9LG0912J4003, 9LG0912J4D001,

9LG0912G4002, 9LG0912G4003,

9LG0912S4001, 9LG0912S4002, 9LG0912S4003, 9LG0912S4004, 9LG0912S4005,

9LG0912S4D001, 9LG0912S4D003

[Contents of change]

		Before Change	After Change
Motor drive IC	Pulse sensor Or sensor-less type	LB11660	BD69730 or BD6973
	Lock sensor type		BD69740 or BD6974
	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. A0053242 - Attached Sheet 3 - 1/1

[MODEL]

9LG0912H4001, 9LG0912H4002, 9LG0912H4002-C, 9LG0912H4004, 9LG0912H4005-C, 9LG0912H4006-C,
 9LG0912H4007,
 9LG0912F4001, 9LG0912F4002,
 9LG0912M4001, 9LG0912M4002,
 9LG0912L4001, 9LG0912L4002

[Contents of change]

		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. A0053242 - Attached Sheet 4 - 1/1

[MODEL]

9LG0912P4J001, 9LG0912P4J001-3, 9LG0912P4J003, 9LG0912P4J004, 9LG0912P4J005,
 9LG0912P4G001,
 9LG0912P4S001, 9LG0912P4S003, 9LG0912P4S004,
 9LG0912P4J001-A01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11660	BD69730 or BD6973
	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. A0053242 - Attached Sheet 5 - 1/2

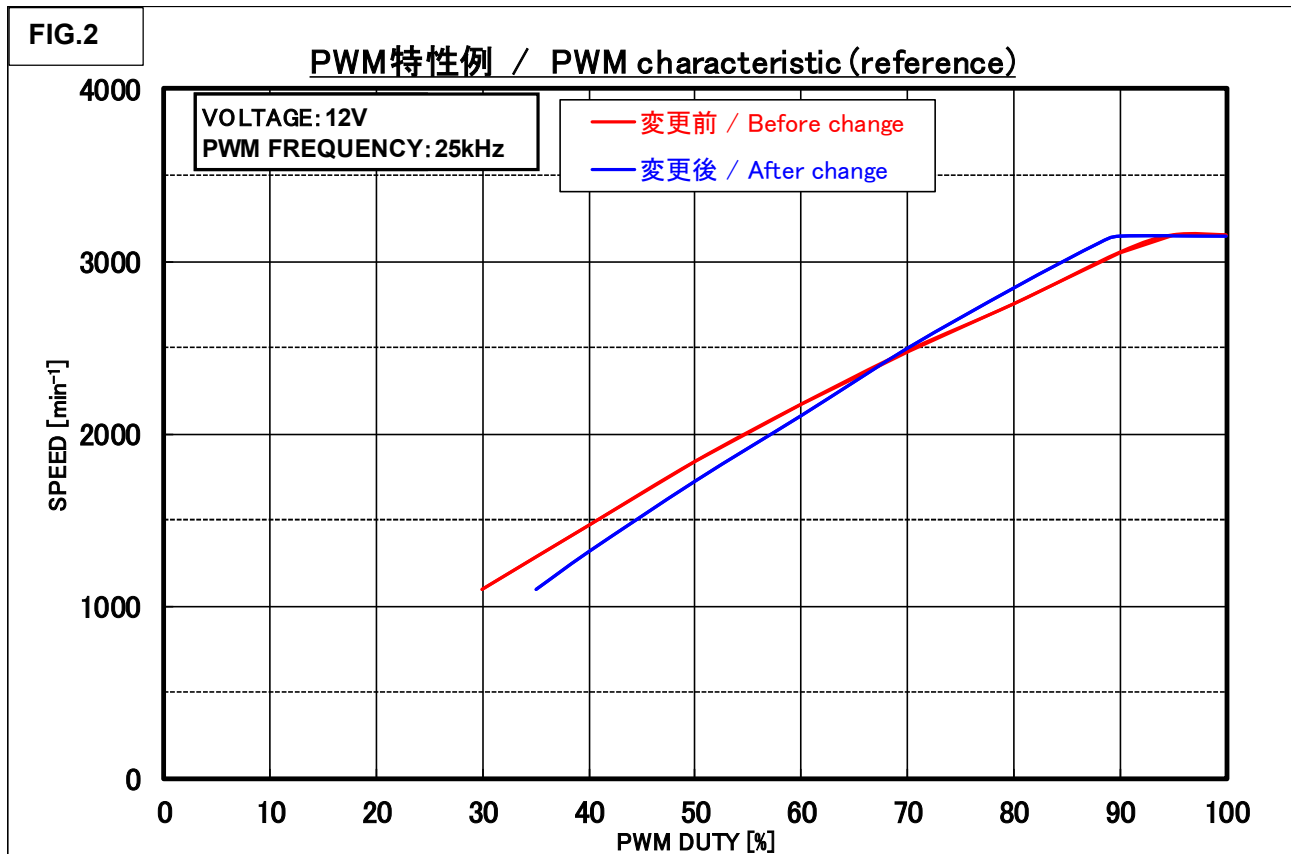
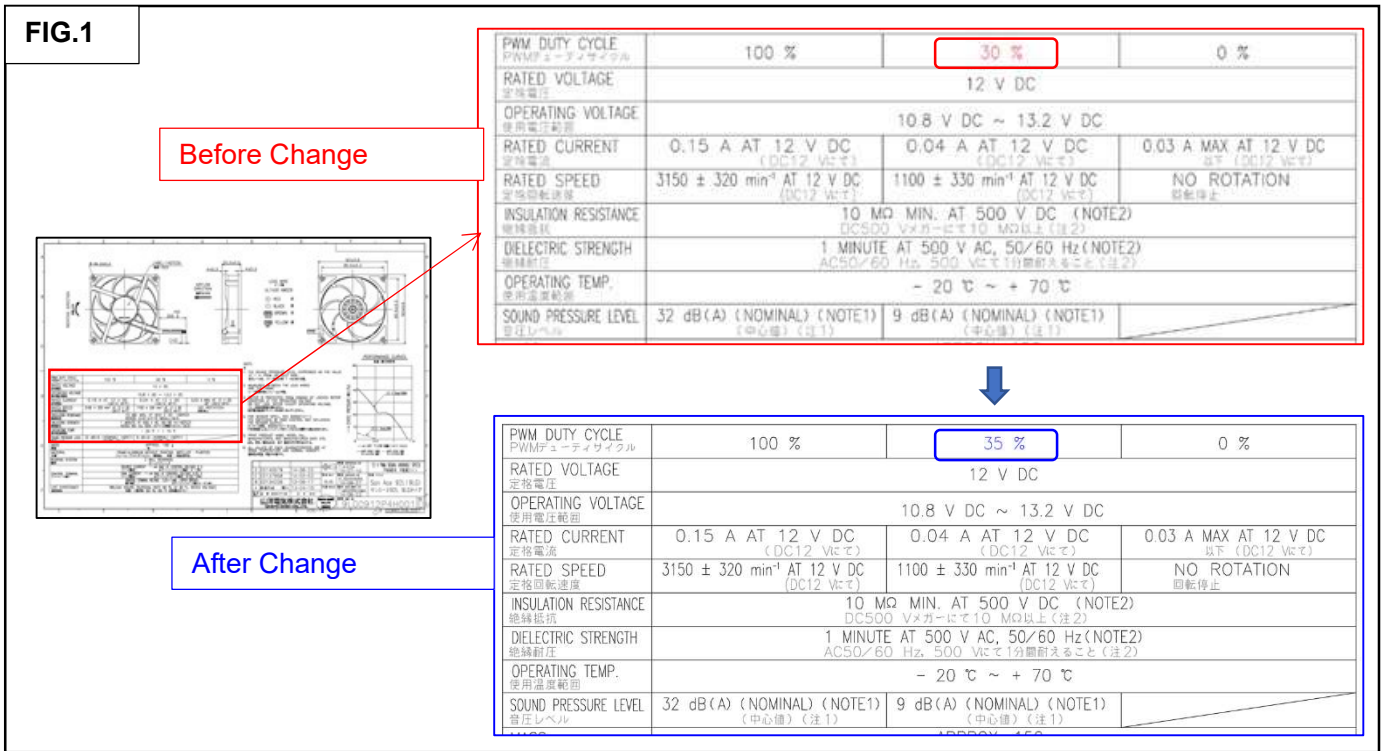
[MODEL]

9LG0912P4H001, 9LG0912P4H003

[Contents of change]

		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% Refer to Fig.1	0.04[A] @ PWM 35% Refer to Fig.1
Speed		1100 +/- 330 [min ⁻¹] @ PWM 30% Refer to Fig.1	1100 +/- 330 [min ⁻¹] @ PWM 35% Refer to Fig.1
Operating temp.		No change	
Sound pressure level		9[dBA(A)] @ PWM 30% Refer to Fig.1	9[dBA(A)] @ PWM 35% 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. A0053242 - Attached Sheet 5 - 2/2



No. A0053242 - Attached Sheet 6 - 1/1

[MODEL]

9LG0924J4D001, 9LG0924J4D003,
 9LG0924S4D001, 9LG0924S4D003,
 9LG0924H4001, 9LG0924H4002, 9LG0924H4D001, 9LG0924H4D003-C, 9LG0924H4H001,
 9LG0924F4001, 9LG0924F4002, 9LG0924F4D001,
 9LG0924M4001, 9LG0924M4002, 9LG0924M4D001,
 9LG0924L4001, 9LG0924L4002, 9LG0924L4D001

[Contents of change]

		Before Change	After 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. A0053242 - Attached Sheet 7 - 1/1

[MODEL]

9LG0924P4J001, 9LG0924P4J003, 9LG0924P4J004, 9LG0924P4J005, 9LG0924P4J006, 9LG0924P4J007,
9LG0924P4G001, 9LG0924P4S001, 9LG0924P4H001, 9LG0924P4HD001

[Contents of change]

		Before Change	After 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		Source current : 1 mA MAX. Refer to FIG.1	Source current : 2 mA MAX. Refer to FIG.1
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	
Life Expectancy		No change	

