Design Change Notification

December 29th, 2021

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 92 (9GA) 92mm sq. x 38mm thick

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

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

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Approved	Checked	Designed	
<u>渡辺</u> '21.12.28 道徳	中村 '21.12.28 俊之	高桑 '21.12.28 宗仙	

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 Rohm.	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 December, 2022 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

No. A0052671 - Attached Sheet 1

[MODEL LIST]

San Ace 92 (9GA) – 92mm x 38mm thick

MODEL	Change contents
9GA0912H101	
9GA0912H1011	
9GA0912H102	Attached Sheet 2
9GA0912H1021	
9GA0912H1D01	
9GA0912P1H03	
9GA0912P1H031	
9GA0912P1H04	
9GA0912P1H05	
9GA0912P1H06	
9GA0912P1H07	
9GA0912P1H08	Attached Sheet 3
9GA0912P1H081	
9GA0912P1H09	
9GA0912P1H10	
9GA0912P1H12	
9GA0912P1H13	
9GA0912P1HD01	
9GA0912P1H041	Attached Sheet 4
9GA0912P1H051	
9GA0912P1H061	Attached Sheet 5
9GA0912P1H11	, adding officer

MODEL	Change contents	
9GA0948H101		
9GA0948H102	Attached Sheet 6	
9GA0948H103		
9GA0948P1H03		
9GA0948P1H031		
9GA0948P1H041		
9GA0948P1H051	Attached Sheet 7	
9GA0948P1H06		
9GA0948P1H08		
9GA0948P1HE01		

No. A0052671 - Attached Sheet 2 - 1/1

[MODEL]

9GA0912H101, 9GA0912H1011, 9GA0912H102, 9GA0912H1021, 9GA0912H1D01

	Before Change	After Change
Motor drive IC	LB11867	BD69730 or BD6973
	By On-semiconductor	By 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	

No. A0052671 - Attached Sheet 3 - 1/1

[MODEL]

9GA0912P1H03, 9GA0912P1H031, 9GA0912P1H04, 9GA0912P1H05, 9GA0912P1H06, 9GA0912P1H07, 9GA0912P1H08, 9GA0912P1H081, 9GA0912P1H09, 9GA0912P1H10, 9GA0912P1H12, 9GA0912P1H13, 9GA0912P1HD01

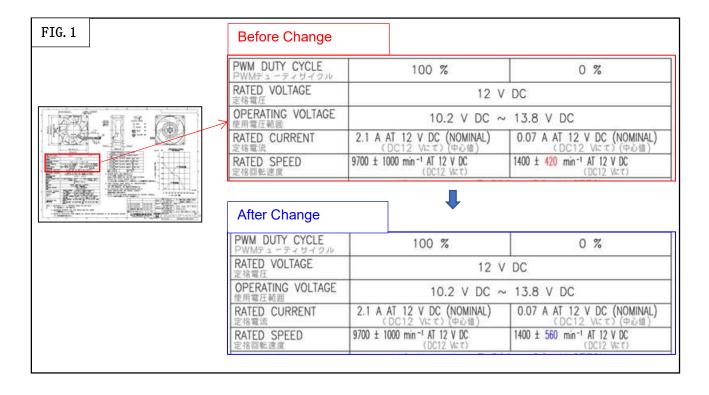
	Before Change	After Change	
Motor drive IC	LB11867	BD69730 or BD6973	
	By On-semiconductor	By Rohm	
Operating voltage	No change		
Electrical current	No change		
Speed	No change		
Operating temp.	No change		
Sound pressure level	No change		
Control terminal	No change		
Air flow – static pressure character	No change		
PWM duty cycle - Speed characteristic	No change		
Sensor spec.	No change		

No. A0052671 - Attached Sheet 4 - 1/1

[MODEL]

9GA0912P1H041

Before Change	After Change
LB11867	BD69730 or BD6973
By On-semiconductor	By Rohm
No change	
0.07[A]NOM. @ PWM 0%	0.07[A]NOM. @ PWM 0%
0.08[A]MAX. @ PWM 0%	0.1[A]MAX. @ PWM 0%
1400 +/ 420 [min-1] @ P\\/\\\ 0%	1400 +/- 560 [min ⁻¹] @ PWM
	0%
Refer to FIG.1	Refer to FIG.1
No change	
	LB11867 By On-semiconductor No ch. 0.07[A]NOM. @ PWM 0% 0.08[A]MAX. @ PWM 0% 1400 +/- 420 [min ⁻¹] @ PWM 0% Refer to FIG.1 No ch. No ch. No ch. No ch.

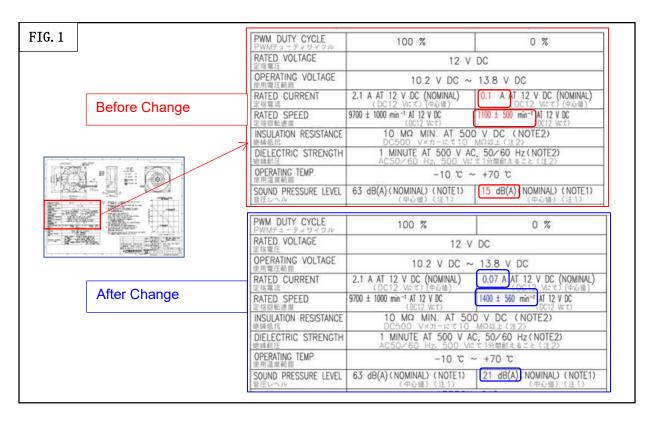


No. A0052671 - Attached Sheet 5 - 1/2

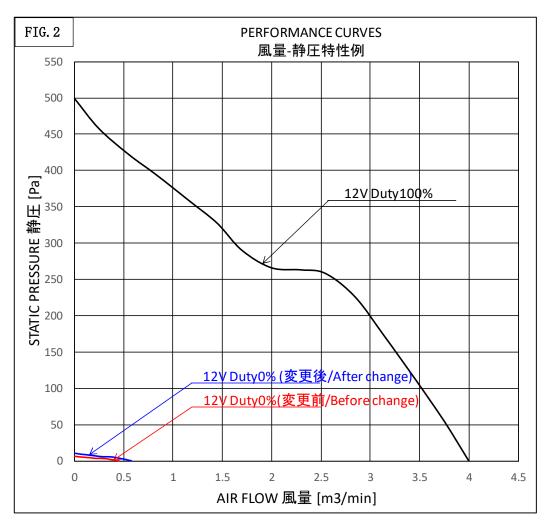
[MODEL]

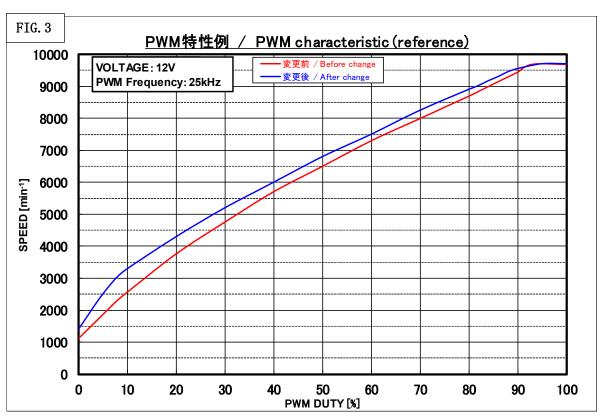
9GA0912P1H051, 9GA0912P1H061, 9GA0912P1H11

	Before Change	After Change
Motor drive IC	LB11867	BD69730 or BD6973
	By On-semiconductor	By Rohm
Operating voltage	No change	
Electrical current	0.1[A]NOM. @ PWM 0%	0.07[A]NOM. @ PWM 0%
	Refer to Fig.1	Refer to Fig.1
	0.11[A]MAX. @ PWM 0%	0.1[A]MAX. @ PWM 0%
Speed	1100 +/- 500 [min ⁻¹] @ PWM0%	1400 +/- 560 [min ⁻¹] @ PWM0%
	Refer to Fig.1	Refer to Fig.1
Operating temp.	No change	
Sound pressure level	15[dBA(A)] @ PWM 0%	21[dBA(A)] @ PWM 0%
	Refer to Fig.1	Refer to Fig.1
Control terminal	No change	
Air flow – static pressure character	Refer to Fig.2	
PWM duty cycle - Speed characteristic	Refer to Fig.3	
Sensor spec.	No change	



No. A0052671 - Attached Sheet 5 - 2/2





No. A0052671 - Attached Sheet 6 - 1/1

[MODEL]

9GA0948H101, 9GA0948H102, 9GA0948H103

	Before Change	After Change
Motor drive IC	LB11867	BD69730 or BD6973
	By On-semiconductor	By 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	

No. A0052671 - Attached Sheet 7 - 1/1

[MODEL]

9GA0948P1H03, 9GA0948P1H031, 9GA0948P1H041, 9GA0948P1H051, 9GA0948P1H06, 9GA0948P1H08, 9GA0948P1HE01

	Before Change	After Change	
Motor drive IC	LB11867	BD69730 or BD6973	
	By On-semiconductor	By 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		