Design Change Notification

January 6th, 2023

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 60 (9CR) 60mm sq. x 51mm 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 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 June, 2023 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

[MODEL LIST]

San Ace 60 (9CR) – 60mm x 51mm thick

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MODEL	Change contents	
9CR0612G501	Attached Sheet 2	
9CR0612G502		
9CR0612H501	Attached Sheet 3	
9CR0612H503		
9CR0612H504		
9CR0612H505		
9CR0612H506		
9CR0612P5G03		
9CR0612P5G04		
9CR0612P5G05	Attached Sheet 4	
9CR0612P5G07		
9CR0612P5G03-A02		
9CR0612P5H03	Attached Sheet 5	
1022-107499		

[MODEL]

9CR0612G501, 9CR0612G502

[Contents of change]

		I	<u> </u>	
		Before Change	After Change	
Motor drive IC	Type name	LB11867	BD69730	
	Manufacture	On-semiconductor	Rohm	
Operating voltage		No change		
Rated electrical current		No change		
Starting current		4.1 [A] nominal	4.9 [A] nominal	
_		4.5 [A] maximum	5.4 [A] maximum	
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. (*Note)		Vce: +13.8 [V DC] max.	Vce: +13.8 [V DC] max.	
		Ic: 5 [mA] max.	lc: 10 [mA] max.	
		Vce(sat): 0.6 [V DC] max.	Vce(sat): 1.0 [V DC] max.	
Life Expectancy		No change		

^{*}Note: This change applies only to pulse sensor specification products.

Products without sensors are "Non- applicable".

[MODEL]

9CR0612H501, 9CR0612H503, 9CR0612H504, 9CR0612H505, 9CR0612H506

[Contents of change]

		Before Change	After Change	
Motor drive IC	Type name	LB11867	BD69730	
	Manufacture	On-semiconductor	Rohm	
Operating voltage		No change		
Rated electrical current		No change		
Starting current		3.5 [A] nominal	4.4 [A] nominal	
		3.9 [A] maximum	4.9 [A] maximum	
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. (*Note)		Vce: +13.8 [V DC] max.	Vce: +13.8 [V DC] max.	
		Ic: 5 [mA] max.	lc: 10 [mA] max.	
		Vce(sat): 0.6 [V DC] max.	Vce(sat): 1.0 [V DC] max.	
Life Expectancy		No change		

^{*}Note: This change applies only to pulse sensor specification products.

Products without sensors are "Non- applicable".

[MODEL]

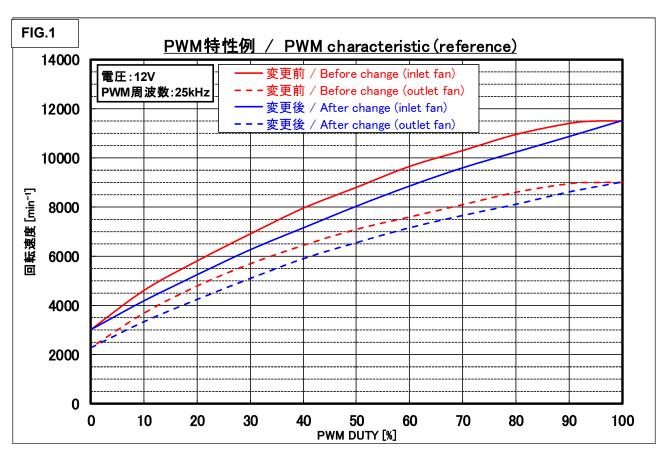
9CR0612P5G03, 9CR0612P5G04, 9CR0612P5G05, 9CR0612P5G07, 9CR0612P5G03-A02

[Contents of change]

		Before Change	After Change	
Motor drive IC	Type name	LB11867	BD69730	
	Manufacture	On-semiconductor	Rohm	
Operating voltage		No change		
Rated electrical current		No change		
Starting current		4.1 [A] nominal	4.9 [A] nominal	
_		4.5 [A] maximum	5.4 [A] maximum	
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		Refer to Fig.1		
Sensor spec. (*Note)		Vce: +13.8 [V DC] max.	Vce: +13.8 [V DC] max.	
		Ic: 5 [mA] max.	lc: 10 [mA] max.	
		Vce(sat): 0.6 [V DC] max.	Vce(sat): 1.0 [V DC] max.	
Life Expectancy		No change		

*Note: This change applies only to pulse sensor specification products.

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[MODEL]

9CR0612P5H03, 1022-107499

[Contents of change]

		Before Change	After Change	
Motor drive IC	Type name	LB11867	BD69730	
	Manufacture	On-semiconductor	Rohm	
Operating voltage		No change		
Rated electrical current		No change		
Starting current		3.5 [A] nominal 3.9 [A] maximum	4.4 [A] nominal 4.9 [A] maximum	
Speed		No change		
Operating temp.		No change		
Sound pressure level		No change		
Control terminal		No change		
Air flow – static pres	sure character	No change		
PWM duty cycle - Speed characteristic		No change		
Sensor spec. (*Note)		Vce: +13.8 [V DC] max.	Vce: +13.8 [V DC] max.	
		Ic: 5 [mA] max.	lc: 10 [mA] max.	
		Vce(sat): 0.6 [V DC] max.	Vce(sat): 1.0 [V DC] max.	
Life Expectancy		No change		

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