

Design Change Notification

December 20th, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 40W (9WL) 40mm sq. x 28mm 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 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. A0052824B - Attached Sheet 1

[MODEL LIST]

San Ace 40W (9WL) – 40mm x 28mm thick

MODEL	Change contents
9WL0412J3001 9WL0412J3002 9WL0412J3003 9WL0412J3D003 9WL0412G3001 9WL0412G3002 9WL0412G3003 9WL0412G3005 9WL0412G3006 9WL0412G3D001	Attached Sheet 2
9WL0412P3J001 9WL0412P3J004 9WL0412P3J005 9WL0412P3J006 9WL0412P3J007 9WL0412P3G001 9WL0412P3G003 9WL0412P3G004 9WL0412P3G006 9WL0412P3GD001	Attached Sheet 3
9WL0424J3001 9WL0424J3002 9WL0424J3D003 9WL0424G3001 9WL0424G3002 9WL0424G3003	Attached Sheet 4
9WL0424P3J001 9WL0424P3J004 9WL0424P3J005 9WL0424P3J006 9WL0424P3J-3 9WL0424P3JD001 9WL0424P3G001 9WL0424P3G003	Attached Sheet 5

No. A0052824B - Attached Sheet 2

[MODEL]

9WL0412J3001, 9WL0412J3002, 9WL0412J3003, 9WL0412J3D003,
 9WL0412G3001, 9WL0412G3002, 9WL0412G3003, 9WL0412G3005, 9WL0412G3006, 9WL0412G3D001

[Contents of change]

		Before Change	After Change
Motor drive IC	Pulse sensor Or sensor-less type	LB11868	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	

No. A0052824B - Attached Sheet 3

[MODEL]

9WL0412P3J001, 9WL0412P3J004, 9WL0412P3J005, 9WL0412P3J006, 9WL0412P3J007

9WL0412P3G001, 9WL0412P3G003, 9WL0412P3G004, 9WL0412P3G006, 9WL0412P3GD001

[Contents of change]

		Before Change	After Change
Motor drive IC	Pulse sensor Or sensor-less type	LB11868	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		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	

No. A0052824B - Attached Sheet 4

[MODEL]

9WL0424J3001, 9WL0424J3002, 9WL0424J3D003,

9WL0424G3001, 9WL0424G3002, 9WL0424G3003

[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	

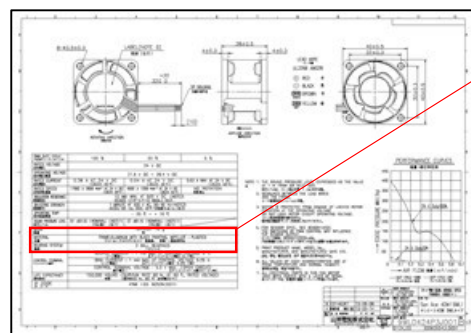
No. A0052824B - Attached Sheet 5

[MODEL]

9WL0424P3J001, 9WL0424P3J004, 9WL0424P3J005, 9WL0424P3J006, 9WL0424P3J-3, 9WL0424P3JD001,
9WL0424P3G001, 9WL0424P3G003

[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 below drawing	Source current: 2 mA MAX. Refer to below drawing
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	



Before Change

SOURCE CURRENT : 1 mA MAX.	AT CONTROL VOLTAGE 0 V
ソース電流 : 以下	(コントロール電圧 0 V時)
SINK CURRENT : 1 mA MAX.	AT CONTROL VOLTAGE 5.25 V
シンク電流 : 以下	(コントロール電圧 5.25 V時)
CONTROL TERMINAL VOLTAGE : 5.25 V MAX. (OPEN CIRCUIT)	
端子電圧 : 以下 (コントロール端子オープン時)	

After Change

SOURCE CURRENT : 2 mA MAX.	AT CONTROL VOLTAGE 0 V
ソース電流 : 以下	(コントロール電圧 0 V時)
SINK CURRENT : 1 mA MAX.	AT CONTROL VOLTAGE 5.25 V
シンク電流 : 以下	(コントロール電圧 5.25 V時)
CONTROL TERMINAL VOLTAGE : 5.25 V MAX. (OPEN CIRCUIT)	
端子電圧 : 以下 (コントロール端子オープン時)	