

Design Change Notification

January 5th, 2023

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 40 (9CRA) 40mm sq. x 56mm 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 Sentelic.	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 July, 2023 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

No. A0053404 - Attached Sheet 1

[MODEL LIST]

San Ace 40 (9CRA) – 40mm x 56mm thick

MODEL	Change contents
9CRA0412K501	Attached Sheet 2
9CRA0412J501 9CRA0412J501-A01	Attached Sheet 3
9CRA0412G501	Attached Sheet 4
9CRA0412P5K03 9CRA0412P5K05 9CRA0412P5K06 9CRA0412P5K15-X 9CRA0412P5K16-X 9CRA0412P5K03-A01 9CRA0412P5K03-A04	Attached Sheet 5
9CRA0412P5J03 9CRA0412P5J03-D 9CRA0412P5J26 9CRA0412P5J31 9CRA0412P5J35 9CRA0412P5J37 9CRA0412P5J42 9CRA0412P5J43 9CRA0412P5J44 9CRA0412P5J03-A02	Attached Sheet 6
9CRA0412P5G03 9CRA0412P5G10 9CRA0412P5G15 9CRA0412P5G16 9CRA0412P5G03-A02	Attached Sheet 7
9CRA0412P5M04 9CRA0412P5M05 9CRA0412P5M06 9CRA0412P5M07 9CRA0412P5M10	Attached Sheet 8

No. A0053404 - Attached Sheet 2

[MODEL]

9CRA0412K501

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	STL6800
	Manufacture	On-semiconductor	Sentelic
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. A0053404 - Attached Sheet 3

[MODEL]

9CRA0412J501,

9CRA0412J501-A01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967 & LB11660	STL6800
	Manufacture	On-semiconductor	Sentelic
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. A0053404 - Attached Sheet 4

[MODEL]

9CRA0412G501

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11660	STL6800
	Manufacture	On-semiconductor	Sentelic
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. A0053404 - Attached Sheet 5

[MODEL]

9CRA0412P5K03, 9CRA0412P5K05, 9CRA0412P5K06, 9CRA0412P5K15-X, 9CRA0412P5K16-X,
9CRA0412P5K03-A01, 9CRA0412P5K03-A04

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	STL6800
	Manufacture	On-semiconductor	Sentelic
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. A0053404 - Attached Sheet 6

[MODEL]

9CRA0412P5J03, 9CRA0412P5J03-D, 9CRA0412P5J26, 9CRA0412P5J31, 9CRA0412P5J35,
 9CRA0412P5J37, 9CRA0412P5J42, 9CRA0412P5J43, 9CRA0412P5J44,
 9CRA0412P5J03-A02

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867 & LB11660	STL6800
	Manufacture	On-semiconductor	Sentelic
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. A0053404 - Attached Sheet 7

[MODEL]

9CRA0412P5G03, 9CRA0412P5G10, 9CRA0412P5G15, 9CRA0412P5G16,
9CRA0412P5G03-A02

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11660	STL6800
	Manufacture	On-semiconductor	Sentelic
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. A0053404 - Attached Sheet 8

[MODEL]

9CRA0412P5M04, 9CRA0412P5M05, 9CRA0412P5M06, 9CRA0412P5M07, 9CRA0412P5M10

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11660	STL6800
	Manufacture	On-semiconductor	Sentelic
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	