

# Design Change Notification

January 5th, 2023

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 40 (9CRA) 40mm sq. x 48mm 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. A0053381 - Attached Sheet 1**

[MODEL LIST]

San Ace 40 (9CRA) – 40mm x 48mm thick

MODEL	Change contents
9CRA0412K401 9CRA0412K402 9CRA0412J401 9CRA0412J402	Attached Sheet 2
9CRA0412P4K03 9CRA0412P4K06 9CRA0412P4K07 9CRA0412P4K08 9CRA0412P4K10 9CRA0412P4K17-R 9CRA0412P4K18 9CRA0412P4K25 9CRA0412P4K26 9CRA0412P4K28 9CRA0412P4K29 9CRA0412P4J03 9CRA0412P4J03-2 9CRA0412P4J11 9CRA0412P4J15 9CRA0412P4S04 9CRA0412P4S04-X 1022-106313 9CRA0412P4K03-A01 9CRA0412P4K03-A02 9CRA0412P4K03-A03 1022-107498 9CRA0412P4J03-A01 9CRA0412P4J03-A04	Attached Sheet 3

MODEL	Change contents
9CRA0412P4G03 9CRA0412P4G14 9CRA0412P4G15 9CRA0412P4G16 9CRA0412P4G03-A01	Attached Sheet 4

**No. A0053381 - Attached Sheet 2**

[MODEL]

9CRA0412K401, 9CRA0412K402,

9CRA0412J401, 9CRA0412J402

[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. A0053381 - Attached Sheet 3**

[MODEL]

9CRA0412P4K03, 9CRA0412P4K06, 9CRA0412P4K07, 9CRA0412P4K08, 9CRA0412P4K10,  
 9CRA0412P4K17-R, 9CRA0412P4K18, 9CRA0412P4K25, 9CRA0412P4K26, 9CRA0412P4K28,  
 9CRA0412P4K29,  
 9CRA0412P4J03, 9CRA0412P4J03-2, 9CRA0412P4J11, 9CRA0412P4J15,  
 9CRA0412P4S04, 9CRA0412P4S04-X,  
 1022-106313, 9CRA0412P4K03-A01, 9CRA0412P4K03-A02, 9CRA0412P4K03-A03,  
 1022-107498, 9CRA0412P4J03-A01, 9CRA0412P4J03-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. A0053381 - Attached Sheet 4**

[MODEL]

9CRA0412P4G03, 9CRA0412P4G14, 9CRA0412P4G15, 9CRA0412P4G16,  
9CRA0412P4G03-A01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867 and 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	