

# Design Change Notification

November 9<sup>th</sup>, 2022To: Sanyo Denki America Cooling DistributorsSANYO DENKI CO.,LTD.  
Design Dept., Cooling Systems Div.

Product: BLDC FAN MOTOR

Model: San Ace 40W (9WP) 40mm sq. x 20mm thick  
(Please refer Attached Sheet for a complete part number list.)

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 Toshiba.	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 May, 2023 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

**No. A0053655 - Attached Sheet 1**

[MODEL]

9WP0412H6001, 9WP0412H6002, 9WP0412H6004,

9WP0412F6001, 9WP0412F6002, 9WP0412F6004, 9WP0412F6D001

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11660	TC78B002
	Manufacture	On-semiconductor	Toshiba
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	