

# Design Change Notification

December 29th, 2021

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR \_\_\_\_\_

Model: San Ace 38 (9GA) 38mm 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.	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 December, 2022 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

**No. A0052633 - Attached Sheet 1**

[MODEL LIST]

San Ace 38 (9GA) – 38mm x 28mm thick

MODEL	Change contents
9GA0312K3001 9GA0312K3D001 9GA0312K3D0011 9GA0312J3001 9GA0312J3003 9GA0312J3004 9GA0312G3001 9GA0312G3-3 9GA0312G3D001	Attached Sheet 2
9GA0312P3K001 9GA0312P3K0011 9GA0312P3K003 9GA0312P3K0031 9GA0312P3K004 9GA0312P3K0041 9GA0312P3K005 9GA0312P3K0051 9GA0312P3K0061 9GA0312P3K0071 9GA0312P3K008 9GA0312P3K009 9GA0312P3K010 9GA0312P3K011 9GA0312P3K012 9GA0312P3K013 9GA0312P3K014 9GA0312P3K016 9GA0312P3K017 9GA0312P3K018 9GA0312P3K020 1022-106132	Attached Sheet 3

MODEL	Change contents
9GA0312P3J001 9GA0312P3J0011 9GA0312P3J003 9GA0312P3J004 9GA0312P3J005 9GA0312P3J006 9GA0312P3J007 9GA0312P3J009 1023-118409 1023-118410 1023-119208 1023-119209 1023-121263 1023-121264	Attached Sheet 4
9GA0312P3G001 9GA0312P3G0011 9GA0312P3G004 9GA0312P3G004-2 9GA0312P3G005 9GA0312P3G006 9GA0312P3G007 9GA0312P3G008 9GA0312P3G010 9GA0312P3G011 9GA0312P3G012 9GA0312P3G014	Attached Sheet 5

**No. A0052633 - Attached Sheet 2**

[MODEL]

9GA0312K3001, 9GA0312K3D001, 9GA0312K3D0011, 9GA0312J3001, 9GA0312J3003, 9GA0312J3004,  
 9GA0312G3001, 9GA0312G3-3, 9GA0312G3D001

[Contents of change]

	Before Change	After Change
Motor drive IC	LB11868 By On-semiconductor	BD69730 or BD6973 By 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. A0052633 - Attached Sheet 3**

[MODEL]

9GA0312P3K001, 9GA0312P3K0011, 9GA0312P3K003, 9GA0312P3K0031, 9GA0312P3K004,  
 9GA0312P3K0041, 9GA0312P3K005, 9GA0312P3K0051, 9GA0312P3K0061, 9GA0312P3K0071,  
 9GA0312P3K008, 9GA0312P3K009, 9GA0312P3K010, 9GA0312P3K011, 9GA0312P3K012, 9GA0312P3K013,  
 9GA0312P3K014, 9GA0312P3K016, 9GA0312P3K017, 9GA0312P3K018, 9GA0312P3K020,  
 1022-106132

[Contents of change]

	Before Change	After Change
Motor drive IC	LB11868 By On-semiconductor	BD69730 or BD6973 By 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. A0052633 - Attached Sheet 4**

[MODEL]

9GA0312P3J001, 9GA0312P3J0011, 9GA0312P3J003, 9GA0312P3J004, 9GA0312P3J005, 9GA0312P3J006,  
 9GA0312P3J007, 9GA0312P3J009,  
 1023-118409, 1023-118410, 1023-119208, 1023-119209, 1023-121263, 1023-121264

[Contents of change]

	Before Change	After Change
Motor drive IC	LB11868 By On-semiconductor	BD69730 or BD6973 By 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. A0052633 - Attached Sheet 5**

[MODEL]

9GA0312P3G001, 9GA0312P3G0011, 9GA0312P3G004, 9GA0312P3G004-2, 9GA0312P3G005,  
 9GA0312P3G006, 9GA0312P3G007, 9GA0312P3G008, 9GA0312P3G010, 9GA0312P3G011,  
 9GA0312P3G012, 9GA0312P3G014

[Contents of change]

	Before Change	After Change
Motor drive IC	LB11868 By On-semiconductor	BD69730 or BD6973 By 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	