

Design Change Notification

October 27th, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 120 (9GV) 120mm sq. x 38mm 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 or Microchip.	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. A0053459 - Attached Sheet 1 – 1/3

【[MODEL LIST]】

San Ace 120 (9GV) – 120mm x 38mm thick

MODEL	Change contents
9GV1212J101	Attached Sheet 2
9GV1212J1011	
9GV1212J102	
9GV1212J1021	
9GV1212J1041	
9GV1212J1D01	
9GV1212G1011	
9GV1212G1031	
9GV1212G1D011	
9GV1212P1J01	Attached Sheet 3
9GV1212P1J011	
9GV1212P1J02	
9GV1212P1J021	
9GV1212P1J03	
9GV1212P1J05	
9GV1212P1J051	
9GV1212P1J06	
9GV1212P1J061	
9GV1212P1J07	
9GV1212P1J071	
9GV1212P1J081	
9GV1212P1J09	
9GV1212P1J091	
9GV1212P1J11	
9GV1212P1J111	
9GV1212P1J12	
9GV1212P1J121	
9GV1212P1J13	
9GV1212P1J131	
9GV1212P1J14	
9GV1212P1J15	
9GV1212P1J16	
9GV1212P1J18	
9GV1212P1G01	
9GV1212P1G011	
9GV1212P1G03	

MODEL	Change contents
9GV1224J101	Attached Sheet 4
9GV1224J1011	
9GV1224J102	
9GV1224J1021	
9GV1224J1031	
9GV1224J104	
9GV1224J1041	
9GV1224J105	
9GV1224J1051	
9GV1224J106	
9GV1224J1071	
9GV1224J1081	
9GV1224J1091	
9GV1224J1101	
9GV1224J1111	
9GV1224J1D01	
9GV1224J1D011	
9GV1224J1D01-C	
9GV1224H101	
9GV1224H1011	
9GV1224H102	
9GV1224H1021	
9GV1224H105	
9GV1224H107	
9GV1224H108	
9GV1224H109-C	
9GV1224H110	
9GV1224H111	
9GV1224H1D01	
9GV1224H1D011	
9GV1224H1D03-C	
9GV1224H1E03	
9GV1224C103	
9GV1224C1D01	
9GV1224C1D03	
9GV1224P1J061	Attached Sheet 5

No. A0053459 - Attached Sheet 1 – 2/3

[MODEL LIST]

San Ace 120 (9GV) – 120mm x 38mm thick

MODEL	Change contents
9GV1224P1J01	
9GV1224P1J011	
9GV1224P1J01-3	
9GV1224P1J021	
9GV1224P1J03	
9GV1224P1J031	
9GV1224P1J04	
9GV1224P1J041	
9GV1224P1J05	
9GV1224P1J07	
9GV1224P1J071	
9GV1224P1J081	
9GV1224P1J09	
9GV1224P1J091	
9GV1224P1J101	
9GV1224P1J13	
9GV1224P1J14	Attached Sheet 6
9GV1224P1J15	
9GV1224P1J16	
9GV1224P1J17	
9GV1224P1J18	
9GV1224P1J19	
9GV1224P1J20	
9GV1224P1J21	
9GV1224P1J22	
9GV1224P1J24	
9GV1224P1J25-C	
9GV1224P1J26	
9GV1224P1J27	
9GV1224P1J28	
9GV1224P1J29	
9GV1224P1J30	
1022-118667	

MODEL	Change contents
9GV1224P1H01	
9GV1224P1H011	
9GV1224P1H03	
9GV1224P1H031	
9GV1224P1H04	
9GV1224P1H051	Attached Sheet 7
9GV1224P1H06	
9GV1224P1H08	
9GV1224P1H10	
9GV1224P1H11	
9GV1224P1H12	
9GV1224P1H01-A01	
9GV1248J101	
9GV1248J1011	
9GV1248J102	
9GV1248J1021	Attached Sheet 8
9GV1248J103	
9GV1248J1031	
9GV1248J1041	
9GV1248J1D01	
9GV1248B101	
9GV1248B1011	
9GV1248B102	
9GV1248B1041	
9GV1248B1D01	
9GV1248B1D03	Attached Sheet 9

No. A0053459 - Attached Sheet 1 – 3/3

[MODEL LIST]

San Ace 120 (9GV) – 120mm x 38mm thick

MODEL	Change contents
9GV1248P1J01 9GV1248P1J011 9GV1248P1J071 9GV1248P1J08 9GV1248P1J081 9GV1248P1J15 9GV1248P1J17 9GV1248P1J18 9GV1248P1J01-A01	Attached Sheet 10
9GV1248P1J06 9GV1248P1J10 9GV1248P1J14 9GV1248P1J16	Attached Sheet 11
9GV1248P1B041 9GV1248P1B051 9GV1248P1B061 9GV1248P1B10 9GV1248P1B101	Attached Sheet 12

No. A0053459 - Attached Sheet 2

[MODEL]

9GV1212J101, 9GV1212J1011, 9GV1212J102, 9GV1212J1021, 9GV1212J1041, 9GV1212J1D01,
 9GV1212G1011, 9GV1212G1031, 9GV1212G1D011

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967	STL6600 or 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. A0053459 - Attached Sheet 3

[MODEL]

9GV1212P1J01, 9GV1212P1J011, 9GV1212P1J02, 9GV1212P1J021, 9GV1212P1J03, 9GV1212P1J05,
 9GV1212P1J051, 9GV1212P1J06, 9GV1212P1J061, 9GV1212P1J07, 9GV1212P1J071, 9GV1212P1J081,
 9GV1212P1J09, 9GV1212P1J091, 9GV1212P1J11, 9GV1212P1J111, 9GV1212P1J12, 9GV1212P1J121,
 9GV1212P1J13, 9GV1212P1J131, 9GV1212P1J14, 9GV1212P1J15, 9GV1212P1J16, 9GV1212P1J18,
 9GV1212P1G01, 9GV1212P1G011, 9GV1212P1G03

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967	STL6600 or 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. A0053459 - Attached Sheet 4

[MODEL]

9GV1224J101, 9GV1224J1011, 9GV1224J102, 9GV1224J1021, 9GV1224J1031, 9GV1224J104,
 9GV1224J1041, 9GV1224J105, 9GV1224J1051, 9GV1224J106, 9GV1224J1071, 9GV1224J1081,
 9GV1224J1091, 9GV1224J1101, 9GV1224J1111,
 9GV1224J1D01, 9GV1224J1D011, 9GV1224J1D01-C,
 9GV1224H101, 9GV1224H1011, 9GV1224H102, 9GV1224H1021, 9GV1224H105, 9GV1224H107,
 9GV1224H108, 9GV1224H109-C, 9GV1224H110, 9GV1224H111,
 9GV1224H1D01, 9GV1224H1D011, 9GV1224H1D03-C, 9GV1224H1E03,
 9GV1224C103, 9GV1224C1D01, 9GV1224C1D03

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	STL6600 or 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. A0053459 - Attached Sheet 5

[MODEL]

9GV1224P1J061

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11850	STL6600 or 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. A0053459 - Attached Sheet 6

[MODEL]

9GV1224P1J01, 9GV1224P1J011, 9GV1224P1J01-3, 9GV1224P1J021, 9GV1224P1J03, 9GV1224P1J031,
 9GV1224P1J04, 9GV1224P1J041, 9GV1224P1J05, 9GV1224P1J07, 9GV1224P1J071, 9GV1224P1J081,
 9GV1224P1J09, 9GV1224P1J091, 9GV1224P1J101, 9GV1224P1J13, 9GV1224P1J14, 9GV1224P1J15,
 9GV1224P1J16, 9GV1224P1J17, 9GV1224P1J18, 9GV1224P1J19, 9GV1224P1J20, 9GV1224P1J21,
 9GV1224P1J22, 9GV1224P1J24, 9GV1224P1J25-C, 9GV1224P1J26, 9GV1224P1J27, 9GV1224P1J28,
 9GV1224P1J29, 9GV1224P1J30,
 1022-118667

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	STL6600 or 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. A0053459 - Attached Sheet 7

[MODEL]

9GV1224P1H01, 9GV1224P1H011, 9GV1224P1H03, 9GV1224P1H031, 9GV1224P1H04, 9GV1224P1H051,
 9GV1224P1H06, 9GV1224P1H08, 9GV1224P1H10, 9GV1224P1H11, 9GV1224P1H12,
 9GV1224P1H01-A01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	STL6600 or 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. A0053459 - Attached Sheet 8

[MODEL]

9GV1248J101, 9GV1248J1011, 9GV1248J102, 9GV1248J1021, 9GV1248J103, 9GV1248J1031,
 9GV1248J1041,
 9GV1248J1D01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11850	PIC16F1823
	Manufacture	On-semiconductor	Microchip
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. A0053459 - Attached Sheet 9

[MODEL]

9GV1248B101, 9GV1248B1011, 9GV1248B102, 9GV1248B1041,
 9GV1248B1D01, 9GV1248B1D03

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	PIC16F1823
	Manufacture	On-semiconductor	Microchip
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. A0053459 - Attached Sheet 10

[MODEL]

9GV1248P1J01, 9GV1248P1J011, 9GV1248P1J071, 9GV1248P1J08, 9GV1248P1J081, 9GV1248P1J15,
 9GV1248P1J17, 9GV1248P1J18,
 9GV1248P1J01-A01

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11850	PIC16F1823
	Manufacture	On-semiconductor	Microchip
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. A0053459 - Attached Sheet 11

[MODEL]

9GV1248P1J06, 9GV1248P1J10, 9GV1248P1J14, 9GV1248P1J16

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967	PIC16F1823
	Manufacture	On-semiconductor	Microchip
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. A0053459 - Attached Sheet 12

[MODEL]

9GV1248P1B041, 9GV1248P1B051, 9GV1248P1B061, 9GV1248P1B10, 9GV1248P1B101

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11867	PIC16F1823
	Manufacture	On-semiconductor	Microchip
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	