



Certificate Attachment  
Certificate No.



Product Service

**B 16 12 22021 700**

**Electrical Ratings:**

Motor type	Rated output (kW)	Rated torque (N·m)	Rated speed (min <sup>-1</sup> )	Max. speed (min <sup>-1</sup> )	Rated current (A)	Supply Voltage	Rated	Thermal class
SGMGV-03AxAxxx	0.3	1.96	1500	3000	2.8	200	CONT.	F
SGMGV-05AxAxxx	0.45	2.86	1500	3000	3.8	200	CONT.	F
SGMGV-09AxAxxx	0.85	5.39	1500	3000	6.9	200	CONT.	F
SGMGV-13AxAxxx	1.3	8.34	1500	3000	10.7	200	CONT.	F
SGMGV-20AxAxxx	1.8	11.5	1500	3000	16.7	200	CONT.	F
SGMGV-30AxAxxx	2.9	18.6	1500	3000	23.8	200	CONT.	F
SGMGV-44AxAxxx	4.4	28.4	1500	3000	32.8	200	CONT.	F
SGMGV-55AxAxxx	5.5	35.0	1500	3000	42.1	200	CONT.	F
SGMGV-75AxAxxx	7.5	48.0	1500	3000	54.7	200	CONT.	F
SGMGV-1AAxAxxx	11.0	70	1500	2000	58.6	200	CONT.	F
SGMGV-1EAxAxxx	15.0	95.4	1500	2000	78	200	CONT.	F
SGMGV-03DxAxxx	0.3	1.96	1500	3000	1.4	400	CONT.	F
SGMGV-05DxAxxx	0.45	2.86	1500	3000	1.9	400	CONT.	F
SGMGV-09DxAxxx	0.85	5.39	1500	3000	3.5	400	CONT.	F
SGMGV-13DxAxxx	1.3	8.34	1500	3000	5.4	400	CONT.	F
SGMGV-20DxAxxx	1.8	11.5	1500	3000	8.4	400	CONT.	F
SGMGV-30DxAxxx	2.9	18.6	1500	3000	11.9	400	CONT.	F
SGMGV-44DxAxxx	4.4	28.4	1500	3000	16.5	400	CONT.	F
SGMGV-55DxAxxx	5.5	35.0	1500	3000	20.8	400	CONT.	F
SGMGV-75DxAxxx	7.5	48.0	1500	3000	25.7	400	CONT.	F
SGMGV-1ADxAxxx	11.0	70	1500	2000	29.3	400	CONT.	F
SGMGV-1EDxAxxx	15.0	95.4	1500	2000	39	400	CONT.	F
SGMGV-03AxBxxx	0.3	2.84	1000	2000	3.0	200	CONT.	F
SGMGV-06AxBxxx	0.6	5.68	1000	2000	5.7	200	CONT.	F
SGMGV-09AxBxxx	0.9	8.62	1000	2000	7.6	200	CONT.	F
SGMGV-12AxBxxx	1.2	11.5	1000	2000	11.6	200	CONT.	F
SGMGV-20AxBxxx	2.0	19.1	1000	2000	18.5	200	CONT.	F
SGMGV-30AxBxxx	3.0	28.4	1000	2000	24.8	200	CONT.	F
SGMGV-40AxBxxx	4.0	38.2	1000	2000	30.0	200	CONT.	F
SGMGV-55AxBxxx	5.5	52.6	1000	2000	43.2	200	CONT.	F
SGMGV-03AxMxxx	0.3	1.96	1500	5000	4.2	200	CONT.	F
SGMGV-05AxMxxx	0.45	2.86	1500	5000	5.2	200	CONT.	F
SGMGV-09AxMxxx	0.85	5.39	1500	4000	6.9	200	CONT.	F
SGMGV-13AxMxxx	1.3	8.34	1500	4000	10.7	200	CONT.	F
SGMGV-20AxMxxx	1.8	11.5	1500	4000	16.7	200	CONT.	F
SGMGV-30AxMxxx	2.9	18.6	1500	4000	23.8	200	CONT.	F
SGMGV-44AxMxxx	4.4	28.4	1500	4000	32.8	200	CONT.	F
SGMGV-55AxMxxx	5.5	35.0	1500	4000	42.1	200	CONT.	F
SGMGV-75AxMxxx	7.5	48.0	1500	4000	54.7	200	CONT.	F
SGMGV-03DxMxxx	0.3	1.96	1500	5000	2.1	400	CONT.	F
SGMGV-05DxMxxx	0.45	2.86	1500	5000	2.6	400	CONT.	F
SGMGV-09DxMxxx	0.85	5.39	1500	4000	3.5	400	CONT.	F
SGMGV-13DxMxxx	1.3	8.34	1500	4000	5.4	400	CONT.	F
SGMGV-20DxMxxx	1.8	11.5	1500	4000	8.4	400	CONT.	F
SGMGV-30DxMxxx	2.9	18.6	1500	4000	11.9	400	CONT.	F
SGMGV-44DxMxxx	4.4	28.4	1500	4000	16.5	400	CONT.	F
SGMGV-55DxMxxx	5.5	35.0	1500	4000	20.8	400	CONT.	F
SGMGV-75DxMxxx	7.5	48.0	1500	4000	25.7	400	CONT.	F
SGMGV-44AxVxxx	4.4	28.4	1500	3000	32.8	200	CONT.	F
SGMGV-55AxVxxx	5.5	35.0	1500	3600	42.1	200	CONT.	F
SGMGV-75AxVxxx	7.5	48.0	1500	3600	54.7	200	CONT.	F
SGMGV-1EAxVxxx	15.0	95.4	1500	2200	78.0	200	CONT.	F



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Motor type	Rated output (kW)	Rated torque (N·m)	Rated speed (min <sup>-1</sup> )	Max. speed (min <sup>-1</sup> )	Rated current (A)	Supply Voltage	Rated	Thermal class
SGMGV-44DxVxxx	4.4	28.4	1500	3500	16.5	400	CONT.	F
SGMGV-55DxVxxx	5.5	35.0	1500	3000	20.8	400	CONT.	F
SGMGV-75AxWxxx	7.5	48.0	1500	2500	45.7	200	CONT.	F
SGMGV-1AAxWxxx	11.0	70	1500	3000	66.5	200	CONT.	F
SGMGV-05DxWxxx	0.45	2.86	1500	5000	2.6	400	CONT.	F
SGMGV-09DxWxxx	0.85	5.39	1500	5000	5.3	400	CONT.	F
SGMGV-13DxWxxx	1.3	8.34	1500	5000	8.3	400	CONT.	F
SGMGV-20DxWxxx	1.8	11.5	1500	4500	10.1	400	CONT.	F
SGMGV-30DxWxxx	2.9	18.6	1500	4500	15.7	400	CONT.	F
SGMGV-44DxWxxx	4.4	28.4	1500	4000	20.8	400	CONT.	F
SGMGV-1EDxWxxx	15.0	71.6	2000	2500	34.2	400	CONT.	F
SGMGV-05AxLxxx	0.45	2.86	1500	3000	3.8	200	CONT.	F
SGMGV-20AxLxxx	1.8	11.5	1500	3000	16.7	200	CONT.	F
SGMGV-05DxLxxx	0.45	2.86	1500	3000	1.9	400	CONT.	F
SGMGV-20DxLxxx	1.8	11.5	1500	3000	8.4	400	CONT.	F

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## B 16 12 22021 700

### Series Nomenclature

SGMGV -            03    x    x    x    x    x    x  
                   a            b    c    d    e    f    g    h

a. Motor Series: SGMGV

b. Motor Output (kW):

	SGMGV	
	(min <sup>-1</sup> ) 1500	(min <sup>-1</sup> ) 1000
03	0.3	0.3
05	0.45	-
06	-	0.6
09	0.85	0.9
12	-	1.2
13	1.3	-
20	1.8	2.0
30	2.9	3.0
40	-	4.0
44	4.4	-
55	5.5	5.5
75	7.5	-
1A	11	-
1E	15	-

c. Supply Voltage:

- A: 200 V
- D: 400 V

d. Detector:

- D: Incremental (20bit)
- 3: Absolute value (20bit)
- 8: Absolute value (20bit) with a large-capacity condenser

e. Design Revision Order

- A: The Standard (Rated Speed 1500min<sup>-1</sup>)
- B: The Associate Standard (Rated Speed 1000min<sup>-1</sup>)
- C: Output and characteristics are the same as a standard.  
The color of bolts is silver.
- E: The Exclusive use type for EU and USA.  
Output and characteristics are the same as a standard type.
- L: Output and characteristics are the same as a standard.  
The frame size is larger than a standard.
- P: The Exclusive use type for EU and USA.  
Output and characteristics are the same as Design Revision Order "L".  
The frame size is larger than a standard.
- M: Output is the same as a standard. The max speed and max torque are larger than a standard.

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f. Shaft Type:

- 2: Straight
- 4: Straight, without key
- 6: Straight, with key and Tap
- 3: 1/10 Conical shaft ends, With Sunk Key
- 5: 1/10 Conical shaft ends, With Woodruff Key
- 8: Straight, with tap

g. Optional parts:

- F: With oil seal (V type)
- G: With oil seal (V type) and with holding brake (DC90V)
- H: With oil seal (V type) and with holding brake (DC24V)
- D: With oil seal (S type) and with holding brake (DC90V)
- E: With oil seal (S type) and with holding brake (DC24V)
- S: With oil seal (S type)
- 1: Without option
- B: With holding brake (DC90V)
- C: With holding brake (DC24V)

h. Connector direction

- non: Standard (straight)
- B: With right angle support
- C: With left angle support

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## B 16 12 22021 700

### Exclusive Design for Customer (case 1)

<u>SGMGV -</u>	<u>03</u>	<u>x</u>	<u>x</u>	<u>x</u>	-	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>
a	b	c	d	e		f	g	h	i

a - d: Same as Standard

e: Design Revision Order

- A: The Standard (Rated Speed 1500min<sup>-1</sup>)
- B: The Associate Standard (Rated Speed 1000min<sup>-1</sup>)
- E: The Exclusive use type for EU and USA.  
Output and characteristics are the same as a standard type.
- L: Output and characteristics are the same as a standard.  
The frame size is larger than a standard.
- P: The Exclusive use type for EU and USA.  
Output and characteristics are the same as Design Revision Order "L".  
The frame size is larger than a standard.
- V: Winding is the same as a standard. The characteristics are different.
- W: Winding and the characteristics differ from a standard.
- Z: The Exclusive use type for EU and USA.  
Winding and the characteristics are the same as Design Revision Order "W".

f, g: Customer Cord:

Alpha-numerical(s) or none

h, i: Design Revision Order for Customer:

Alpha-numerical(s) or none



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## B 16 12 22021 700

### Exclusive Design for Customer (case 2)

SGMGV -      03    x   x   x   x   x   x   x   -   x   x  
 a                    b      c    d    e    f    g    h                    i    j

a - h: Same as Standard

i: Customer Cord:

Alpha-numerical(s) or none

j: Design Revision Order for Customer:

Alpha-numerical(s) or none

### Exclusive Design for Customer (case 3)

SGMGV -      03    x   x   x   x   x   x   -   OY  
 a                    b      c    d    e    f    g    h                    i

a - h: Same as Standard

i(-OY): For OMRON YASKAWA Motion Control B.V.  
With special name plate.

### INTERNATIONAL PROTECTION CLASS (IP class)

No.	Contents	Except for drive end side(*1)	Oil seal of drive end side	
			V type	S type
1	Connection: Receptacle	IP67	IP55	IP67
2	Connection: Receptacle (With right-angled support)	IP67	IP55	IP67
3	Connection: Cable (Cable isn't attached to the motor.)	IP67	IP55	IP67

\*1: When drive end side needs IP55 or IP67, mount an oil seal.