

# OMRON YASKAWA MOTION CONTROL Compatibility List

Advanced Industrial Automation

- New **Omron Yaskawa Motion Control** products are referred as "**OYMC**"
- This guide provides a compatibility list between **Omron, Yaskawa** and the new **OYMC models**
- The model name for **Servo Motors and Drives** is made adding **-OY** at the end of the Yaskawa model name
- The model name for **Frequency Inverters** is made changing the "C" on the Yaskawa models by a "**Z**"
- For any further information contact with your local **Omron sales office**

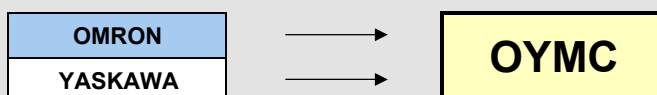
## Compatibility List

Family Equivalence



Servo Systems	Omron Family	Yaskawa Family	OYMC Family	Pages
New family OYMC Brand	<b>Omnuc W series</b>	<b>Sigma II series</b>	<b>Sigma II Series</b>	3 - 12,18
No OYMC brand for these families	Omnuc U series	Sigma I series	N/A	
	SmartStep	N/A	N/A	
Frequency Inverters	Omron Family	Yaskawa Family	OYMC Family	Pages
New families OYMC Brand	<b>3G3PV</b>	<b>E7</b>	<b>E7</b>	13 - 15,18
	<b>3G3RV</b>	<b>F7</b>	<b>F7</b>	13, 16 - 18
No OYMC brand for these families	3G3JV	J7	N/A	
	3G3MV	V7	N/A	
	3G3FV	G5	N/A	
	3G3HV	P5	N/A	

## Outline of contents on the Compatibility List



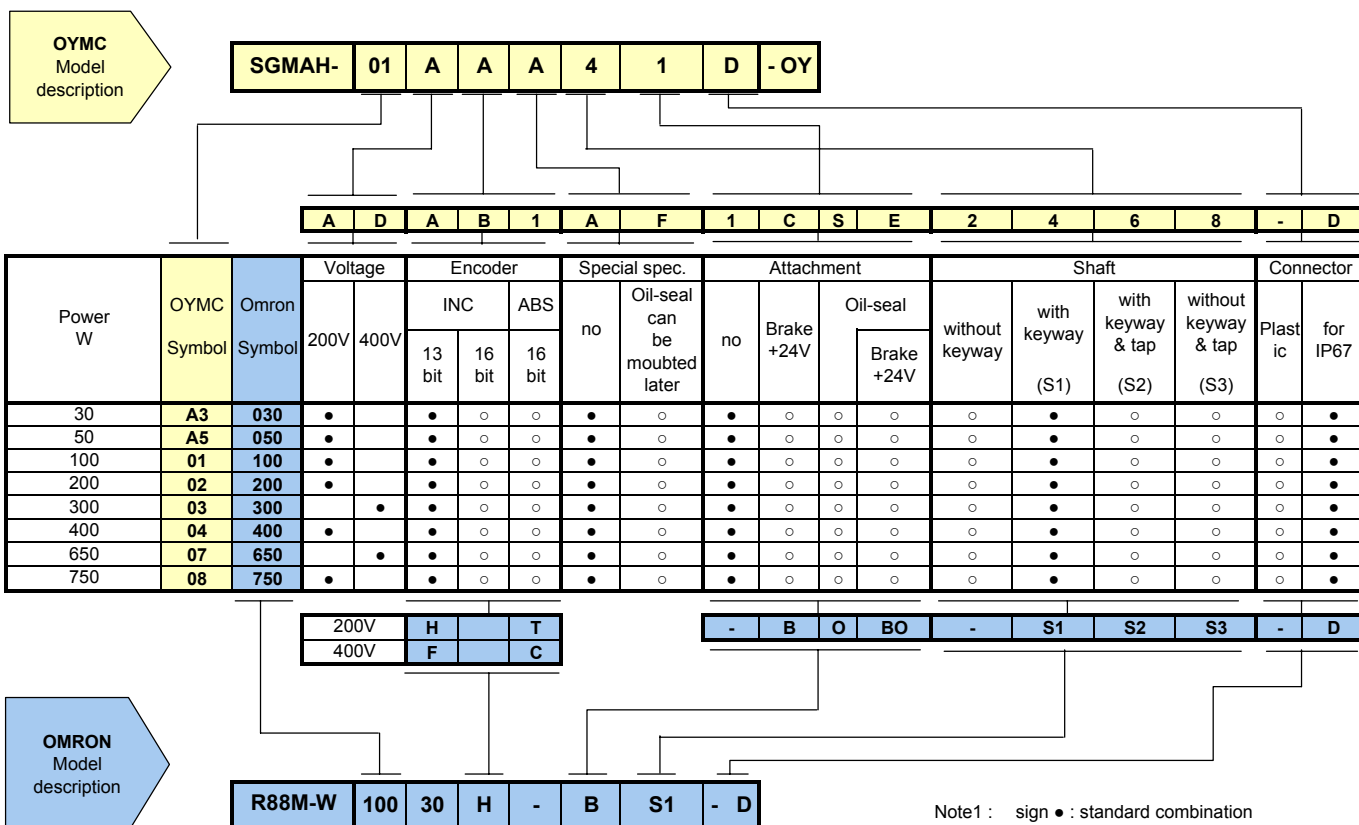
Description	OMRON	YASKAWA	OYMC	Selection Table	Cross Reference List
<b>Sigma II (W-Series) Servo System</b>					
Servo Motor. 3000 rpm (30-750W)	<b>R88M-W_30_-S1-D</b>	SGMAH-_____	<b>SGMAH-_____-OY</b>	Page 4	Pages 8-9
Servo Motor Cube. 3000 rpm (100-1500W)	<b>R88M-WP_30_-S1-D</b>	SGMPH-_____	<b>SGMPH-_____-OY</b>	Page 4	Pages 8-9
Servo Motor. 1500 rpm (0.45 -15kW)	<b>R88M-W_15_-</b>	SGMGH-__A__	<b>SGMGH-__A__-OY</b>	Page 5	Pages 10-11
Servo Motor. 1000 rpm (0.3 - 1.2kW)	<b>R88M-W_10_-</b>	SGMGH-__B__	N/A	Page 5	-
Servo Motor. 3000 rpm (1 - 5kW)	<b>R88M-W_K_30_-S2</b>	SGMSH-_____	<b>SGMSH-_____-OY</b>	Page 5	Pages 10-11
Servo Motor. 6000 rpm (1 - 4kW)	<b>R88M-W_60_-</b>	SGMUH-_____	<b>SGMUH-_____-OY</b>	Page 6	Pages 10-11
Servo Drive	<b>R88D-WT__</b>	SGDH-____-	<b>SGDH-_____-OY</b>	Page 6	Page 7
<b>E7 (PV) &amp; F7(RV) Frequency Inverters</b>					
E7 / PV Frequency Inverter	<b>3G3PV-____</b>	<b>CIMR-E7C__</b>	<b>CIMR-E7Z__</b>	Page 13	Pages 14-15
F7 / RV Frequency Inverter	<b>3G3RV-____</b>	<b>CIMR-F7C__</b>	<b>CIMR-F7Z__</b>	Page 13	Pages 16-17

# SGMAH- Sigma II Servo Motor. 3000 rpm (30-750W)

<b>YASKAWA Models</b>	<b>SGMAH -</b>
<b>OMRON Models</b>	<b>R88M-W 30 - S1 - D</b>

← Key Code for Yaswawa Models

← Key Code for Omron Models

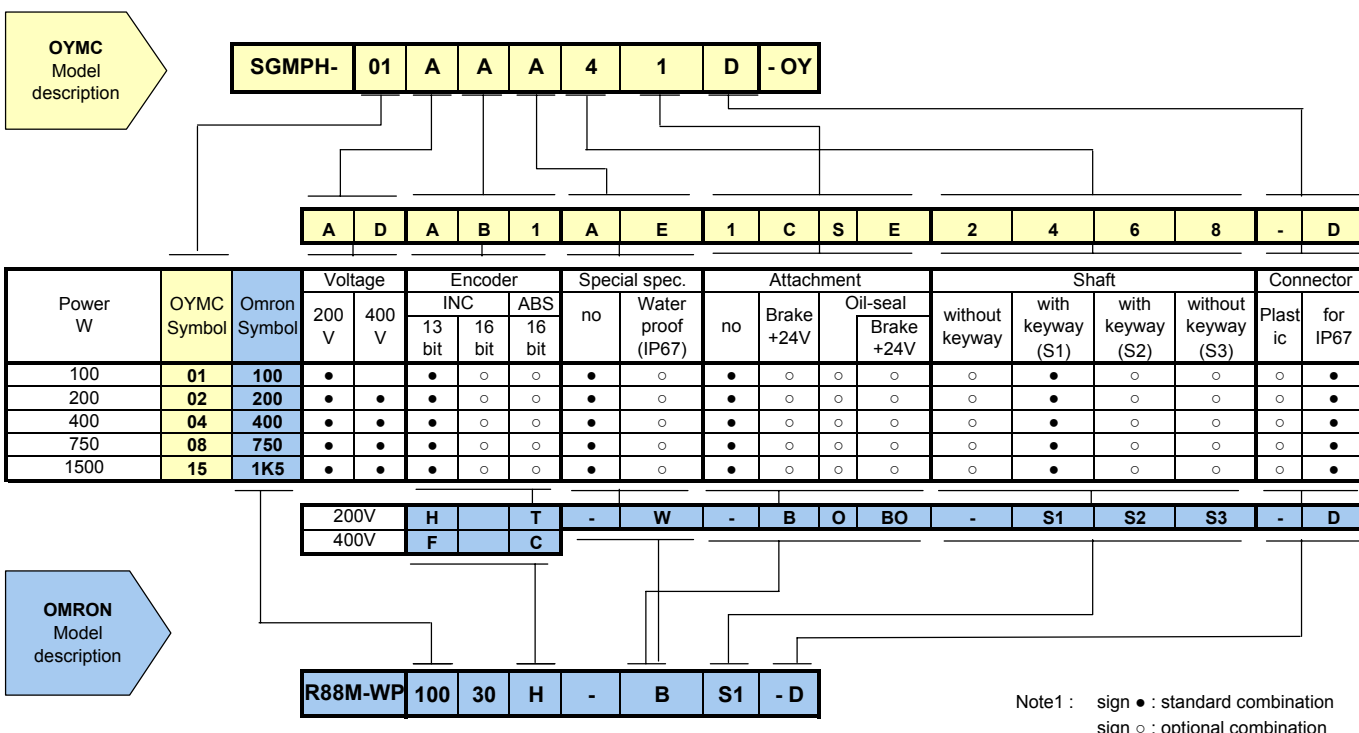


# SGMPH- Sigma II Servo Motor Cube Type . 3000 rpm (100-1500W)

<b>YASKAWA Models</b>	<b>SGMPH -</b>
<b>OMRON Models</b>	<b>R88M-WP 30 - S1 - D</b>

← Key Code for Yaswawa Models

← Key Code for Omron Models



## SGMGH- Sigma II Servo Motor. 1500/1000 rpm (0.3 - 15.0 kW)

<b>YASKAWA Models</b>	<b>SGMGH -</b> _ _ _ _ _
<b>OMRON Models</b>	<b>R88M-W</b> _ <b>15</b> _ -
<b>OMRON Models</b>	<b>R88M-W</b> _ <b>10</b> _ -

← Key Code for Yaswawa Models

← Key Code for Omron Models

← Key Code for Omron Models

OYMC Model description

**SGMGH - 13 D C A 6 F - OY**

**A D C 2 A B 2 6 3 1 C S E F H**

Power kW	OYMC Symbol	Omron Symbol	Voltage		Encoder		Special		Shaft			Attachment					
			200v	400V	INC 17 bit	ABS 17 bit	1500 rpm	1000 rpm	without keyway	with key (S2)	taper 1/10 (S4)	no	with Brake +24V	Oil-seal Brake +24V	Dust-seal Brake +24V		
0.45	05	450	•	•	•	•	•		○	•	○	○	○	○	○	•	○
0.85	09	850	•	•	•	•	•		○	•	○	○	○	○	○	•	○
1.3	13	1K3	•	•	•	•	•		○	•	○	○	○	○	○	•	○
1.8	20	2K0	•	•	•	•	•		○	•	○	○	○	○	○	•	○
2.9	30	3K0	•	•	•	•	•		○	•	○	○	○	○	○	•	○
4.4	44	4K4	•	•	•	•	•		○	•	○	○	○	○	○	•	○
5.5	55	5K5	•	•	•	•	•		○	•	○	○	○	○	○	•	○
7.5	75	7K5	•	•	•	•	•		○	•	○	○	○	○	○	•	○
11.0	1A	11K0	•	•	•	•	•		○	•	○	○	○	○	○	•	○
15.0	1E	15K0	•	•	•	•	•		○	•	○	○	○	○	○	•	○
0.3	03	300	○	○	○	○	*		○	○	○	○	○	○	○	○	○
0.6	06	600	○	○	○	○	*		○	○	○	○	○	○	○	○	○
0.9	09	900	○	○	○	○	*		○	○	○	○	○	○	○	○	○
1.2	12	1K2	○	○	○	○	*		○	○	○	○	○	○	○	○	○

200V	H	T	15	10	-	S2	S4	-	B	O	BO
400V	F	C									

OMRON Model description

**R88M-W 1K3 15 F - B S2**

sign • : standard combination

sign ○ : optional combination

sign \* : OY model not available

## SGMSH- Sigma II Servo Motor . 3000 rpm (1.0 - 5.0 kW)

<b>YASKAWA Models</b>	<b>SGMSH -</b> _ _ _ _ _
<b>OMRON Models</b>	<b>R88M-W</b> _ <b>K</b> _ <b>30</b> _ - <b>S2</b>

← KC for Yaswawa Models

← KC for Omron Models

OYMC Model description

**SGMSH - 10 D C A 6 F - OY**

**A D C 2 A B 2 6 3 1 C S E F H**

Power kW	OYMC Symbol	Omron Symbol	Voltage		Encoder		Special no	Shaft			Attachment						
			200v	400V	INC 17 bit	ABS 17 bit		without keyway	with key (S2)	taper 1/10 (S4)	no	Brake +24V	Oil-seal Brake +24V	Dust-seal Brake +24V			
1.0	10	1K0	○	•	•	○	•	○	•	○	○	○	○	○	○	•	○
1.5	15	1K5	○	•	•	○	•	○	•	○	○	○	○	○	○	•	○
2.0	20	2K0	•	•	•	○	•	○	•	○	○	○	○	○	○	•	○
3.0	30	3K0	•	•	•	○	•	○	•	○	○	○	○	○	○	•	○
4.0	40	4K0	•	•	•	○	•	○	•	○	○	○	○	○	○	•	○
5.0	50	5K0	•	•	•	○	•	○	•	○	○	○	○	○	○	•	○

200V	H	T									
400V	F	C									

OMRON Model description

**R88M-W 1K0 30 F - B S2**

sign • : standard combination

sign ○ : optional combination

# SGMUH- Sigma II Servo Motor . 6000 rpm (1.0 - 4.0 kW)

<b>YASKAWA Models</b>	<b>SGMUH -</b> _ _ _ _ _
<b>OMRON Models</b>	<b>R88M-W</b> 60 _ _ _

← Key Code for Yaswawa Models

← Key Code for Omron Models

**OYMC**  
Model description

**SGMUH - 10 D C A 6 F - OY**

**D C 2 A 2 6 3 1 C S E F H**

Power kW	OYMC Symbol	Omron Symbol	Voltage		Encoder		Special spec.	Shaft			Attachment						
			400V	17 bit	17 bit	no		without keyway	with key (S2)	taper 1/10 (S4)	no	Brake +24V	Oil-seal	Brake +24V	Dustseal	Brake +24V	
1.0	10	1K0	•	•		•		○	•	○	○	○	○	○	○	•	○
1.5	15	1K5	•	•		•		○	•	○	○	○	○	○	○	•	○
3.0	30	3K0	•	•		•		○	•	○	○	○	○	○	○	•	○
4.0	40	4K0	•	•		•		○	•	○	○	○	○	○	○	•	○

**F C**

**- S2 S4 - B O BO**

**OMRON**  
Model description

**R88M-W 1K0 60 F - B S2**

sign • : standard combination  
sign ○ : optional combination

# SGDH- Sigma II Servo Drive

<b>YASKAWA Models</b>	<b>SGDH -</b> _ _ _ _ _
<b>OMRON Models</b>	<b>R88D-WT</b> _ _ _

← Key Code for Yaswawa Models

← Key Code for Omron Models

**OYMC**  
Model description

**SGDH - 15 D E - S**

**A D - S**

Power kW	OYMC Symbol	OMRON Symbol	Voltage			Custom spec	
			1 phase 200V	3 phase 200V	3 phase 400	nothing	1 phase 200V based on 3 phase products
0.03	A3	A3	•				•
0.05	A5	A5	•				•
0.1	01	01	•				•
0.2	02	02	•				•
0.4	04	04	•				•
0.5	05	05		○	•	•	
0.75	08	08	•	○	•	•	•
1.0	10	10		○	•	•	
1.5	15	15	•	○	•	•	•
2.0	20	20		○	•	•	
3.0	30	30		○	•	•	
5.0	50	50		○	•	•	
6.0	60	60		○	•	•	
7.5	75	75			•	•	
11.0	1A	110			•	•	
150	1E	150			•	•	

Compatible Motors						
200v		400v				
SGMAH-A	SGMPH-A	SGMAH-D	SGMPH-D	SGMGH-D	SGMSH-D	SGMUH-D
A3						
A5						
01	01					
02	02					
04	04					
		03	02 / 04	05		
08	08					
		07	08	09	10	10
	15		15	13	15	15
				20	20	
				30	30	30
				44	40 / 50	40
				55		
				75		
				1A		
				1E		

Combination

**H HH H HF**

**OMRON**  
Model description

**R88D-WT 15 H**

sign ○ : OY model not available

# SGDH

## Sigma II Servo Drive

### Cross Reference list

OMRON

YASKAWA

OYMC

Drive Characteristics		Servo Drive Models			EMC Filter
		OMRON	YASKAWA	OYMC	
1 phase 200V	30 W	R88D-WTA3H	SGDH-A3AE	SGDH-A3AE-OY	R88A-FIW104-SE
	50 W	R88D-WTA5H	SGDH-A5AE	SGDH-A5AE-OY	R88A-FIW104-SE
	100 W	R88D-WT01H	SGDH-01AE	SGDH-01AE-OY	R88A-FIW104-SE
	200 W	R88D-WT02H	SGDH-02AE	SGDH-02AE-OY	R88A-FIW104-SE
	400 W	R88D-WT04H	SGDH-04AE	SGDH-04AE-OY	R88A-FIW107-SE
	750 W	R88D-WT08HH	SGDH-08AE-S	SGDH-08AE-S-OY	R88A-FIW115-SE
3 phase 400	1500 W	R88D-WT15HH	SGDH-15AE-S	SGDH-15AE-S-OY	R88A-FIW125-SE
	0.5 kW	R88D-WT05HF	SGDH-05DE	SGDH-05DE-OY	R88A-FIW4006-SE
	1.0 kW	R88D-WT10HF	SGDH-10DE	SGDH-10DE-OY	R88A-FIW4006-SE
	1.5 kW	R88D-WT15HF	SGDH-15DE	SGDH-15DE-OY	R88A-FIW4006-SE
	2.0 kW	R88D-WT20HF	SGDH-20DE	SGDH-20DE-OY	R88A-FIW4010-SE
	3.0 kW	R88D-WT30HF	SGDH-30DE	SGDH-30DE-OY	R88A-FIW4010-SE
	5.0 kW	R88D-WT50HF	SGDH-50DE	SGDH-50DE-OY	R88A-FIW4020-SE
	6.0 kW	R88D-WT60HF	SGDH-60DE	SGDH-60DE-OY	R88A-FIW4030-SE
	7.5 kW	R88D-WT75HF	SGDH-75DE	SGDH-75DE-OY	R88A-FIW4030-SE
	11.0 kW	R88D-WT110HF	SGDH-1ADE	SGDH-1ADE-OY	R88A-FIW4055-SE
15.0 kW	R88D-WT150HF	SGDH-1EDE	SGDH-1EDE-OY	R88A-FIW4055-SE	

## Sigma II Accessories

### Cross Reference list

OMRON

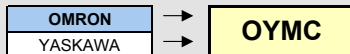
YASKAWA

	OMRON Model	YASKAWA Model
<b>Peripheral Cable Connectors</b>		
Analog Monitor Cable 1m (CN5)	R88A-CMW001S	DE 9404559
Computer Monitor Cable 2m (CN3)	R88A-CCW002P2	JZSP-CMS02
Control I/O Connector (CN1)	R88A-CNU11C	JZSP-CKI 9
I/O Terminal Block (JUSP-TA50P includes cable 0.5m)	XW2B-50G5	JUSP-TA50P
Connector Terminal Block Cable 1m (CN1)	R88A-CTW001N	
<b>Encoder &amp; Power cables</b>		
Encoder Cable IP67 for motors SGMAH/SGMPH (3 to 20 m)	R88A-CRWA0xxC-DE	DP 9325256-xxG
Encoder Cable IP67 for motors SGMGH/SGMSH/SGMUH 400V (3 to 20 m)	R88A-CRWB0xxN-E	JZSP-CMP02-xxG
Power Cable IP67 for motors SGMAH/SGMPH 30-750W, 200V (3 to 20 m)	R88A-CAWA0xxS-DE	DP 9325252-xxG
Power Cable IP67 with brake for motors SGMAH/SGMPH 30-750W, 200V (3 to 20 m)	R88A-CAWA0xxB-DE	DP 9325253-xxG
Power Cable IP67 for motors SGMPH 1500W, 200V (3 to 20 m)	R88A-CAWB0xxS-DE	DP 9325254-xxG
Power Cable IP67 with brake for motors SGMPH 1500W, 200V (3 to 20 m)	R88A-CAWB0xxB-DE	DP 9325255-xxG
Power Cable IP67 for motors SGMAH/SGMPH, 400V (3 to 20 m)	R88A-CAWK0xxS-DE	JZSP-CMM20D15-xxG
Power Cable IP67 with brake for motors SGMAH/SGMPH, 400V (3 to 20 m)	R88A-CAWK0xxB-DE	JZSP-CMM30D15-xxG
Power Cable IP67 for motors SGMSH/SGMUH 1-2kW. SGMGH 0.45-1.3kW, 400V (3 to 20 m)	R88A-CAWC0xxS-E	JZSP-CMM02D15-xxG
Power Cable IP67 for motors SGMSH/SGMUH 3-5kW. SGMGH 1.8-2.9kW, 400V (3 to 20 m)	R88A-CAWD0xxS-E	JZSP-CMM02D30-xxG
Power Cable IP67 for motors SGMGH 5.5kW, 400V (3 to 20 m)	R88A-CAWF0xxS-E	JZSP-CMM02D55-xxG
Power Cable IP67 for motors SGMGH 4.4kW, 400V (3 to 20 m)	R88A-CAWG0xxS-E	JZSP-CMM02D44-xxG
Power Cable IP67 for motors SGMGH 7.5-11kW, 400V (3 to 20 m)	R88A-CAWH0xxS-E	JZSP-CMM02D1A-xxG
Power Cable IP67 for motors SGMGH 15kW, 400V (3 to 20 m)	R88A-CAWJ0xxS-E	JZSP-CMM02D1E-xxG
Brake Cable IP67 for motors SGMGH/SGMSH/SGMUH 400V (3 to 20 m)	R88A-CAWC0xxB-E	JZSP-CMM02BR-xxG
<b>Parameter Unit</b>		
Hand-held (with 1 -m cable)	R88A-PR02W	JUSP-OP02A-2
Parameter Unit Cable (2m)	R88A-CCW002C	JZSP-CMS00-3
<b>External Regeneration Resistor Units</b>		
Resistance Unit for 6.0 kW and 7.5 kW, 400 V servo (880 W, 18 Ohm)	R88A-RR88018	JUSP-RA18
Resistance Unit for 11 kW and 15 kW, 400 V servo (1760 W, 14.25 Ohm)	R88A-RR1K814	JUSP-RA19
<b>Option Board</b>		
Devicenet Communications board (including positioning features)	R88A-NCW152-DRT	JUSP-NS300
<b>Battery for absolute encoder</b>		
To mount with servo up to 5 kW	R88A-BAT01W	JZSP-BA01
To mount with servo 6 kW to 15 kW	R88A-BAT02W	JZSP-BA01-1

# SGMAH

**Sigma II Servo Motor**  
3000 rpm · 30-750W

## Cross Reference list



**Note 1:** The shaft on Yaskawa motors has some small differences.  
See drawings on page 12 for details

## System combination

- Servo Drive
- EMC Filter
- Cables between Motor and Drive

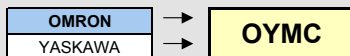
Please note that xx=03, 05, 10, 15 or 20  
(referring to the cable length in meters)

Motor Characteristics																	
Power W	Torque Nm	Voltage		Encoder			Shaft				Special spec		attachment		Connector		
		200 V	400 V	INC		ABS	without keyway	with keyway (S1)	with keyway & tap (S2)	without keyway & tap (S3)	no	Oil seal can be mounted later	no	Brake +24V	Oil -seal	Plastic	for IP67
				13 bit	16 bit												
30	0.096	•						•			•	Note 1	•				•
50	0.159	•						•			•	Note 1	•				•
100	0.318	•						•			•	Note 1	•				•
200	0.637	•						•			•	Note 1	•				•
400	1.27	•						•			•	Note 1	•				•
750	2.39	•						•			•	Note 1	•				•
30	0.096	•						•			•	Note 1		•			•
50	0.159	•						•			•	Note 1		•			•
100	0.318	•						•			•	Note 1		•			•
200	0.637	•						•			•	Note 1		•			•
400	1.27	•						•			•	Note 1		•			•
750	2.39	•						•			•	Note 1		•			•
30	0.096	•						•			•	Note 1	•				•
50	0.159	•						•			•	Note 1	•				•
100	0.318	•						•			•	Note 1	•				•
200	0.637	•						•			•	Note 1	•				•
400	1.27	•						•			•	Note 1	•				•
750	2.39	•						•			•	Note 1	•				•
30	0.096	•						•			•	Note 1		•			•
50	0.159	•						•			•	Note 1		•			•
100	0.318	•						•			•	Note 1		•			•
200	0.637	•						•			•	Note 1		•			•
400	1.27	•						•			•	Note 1		•			•
750	2.39	•						•			•	Note 1		•			•
300	0.955		•	•				•			•	Note 1	•				•
650	2.07		•	•				•			•	Note 1	•				•
300	0.955		•	•				•			•	Note 1		•			•
650	2.07		•	•				•			•	Note 1		•			•
300	0.955		•	•				•			•	Note 1	•				•
650	2.07		•	•				•			•	Note 1	•				•
300	0.955		•	•				•			•	Note 1		•			•
650	2.07		•	•				•			•	Note 1		•			•

# SGMPH

**Sigma II Servo Motor**  
Cube Type  
3000 rpm · 100-1500W

## Cross Reference list



## System combination

- Servo Drive
- EMC Filter
- Cables between Motor and Drive

Please note that xx=03, 05, 10, 15 or 20  
(referring to the cable length in meters)

Motor Characteristics																	
Power W	Torque Nm	Voltage		Encoder			Shaft				Attachment			Connector			
		200 V	400 V	INC		ABS	without keyway	with keyway (S1)	with keyway & tap (S2)	without keyway & tap (S3)	no	Brake +24V	Oil -seal	Water proof (IP67)	Plastic	for IP67	
				13 bit	16 bit												16 bit
100	0.318	•						•			•						•
200	0.637	•						•			•						•
400	1.27	•						•			•						•
750	2.39	•						•			•						•
1500	4.77	•						•			•						•
100	0.318	•						•			•						•
200	0.637	•						•			•						•
400	1.27	•						•			•						•
750	2.39	•						•			•						•
1500	4.77	•						•			•						•
100	0.318	•						•			•						•
200	0.637	•						•			•						•
400	1.27	•						•			•						•
750	2.39	•						•			•						•
1500	4.77	•						•			•						•
100	0.318	•						•			•						•
200	0.637	•						•			•						•
400	1.27	•						•			•						•
750	2.39	•						•			•						•
1500	4.77	•						•			•						•
200	0.637		•	•				•			•						•
400	1.27		•	•				•			•						•
750	2.39		•	•				•			•						•
1500	4.77		•	•				•			•						•
200	0.637		•	•				•			•						•
400	1.27		•	•				•			•						•
750	2.39		•	•				•			•						•
1500	4.77		•	•				•			•						•
200	0.637		•	•				•			•						•
400	1.27		•	•				•			•						•
750	2.39		•	•				•			•						•
1500	4.77		•	•				•			•						•

Motor Model Equivalence		
OMRON	YASKAWA (See Note 1)	OYMC
R88M-W03030H-S1-D	SGMAH-A3AAF41D	SGMAH-A3AAA41D -OY
R88M-W05030H-S1-D	SGMAH-A5AAF41D	SGMAH-A5AAA41D -OY
R88M-W10030H-S1-D	SGMAH-01AAF41D	SGMAH-01AAA41D -OY
R88M-W20030H-S1-D	SGMAH-02AAF41D	SGMAH-02AAA41D -OY
R88M-W40030H-S1-D	SGMAH-04AAF41D	SGMAH-04AAA41D -OY
R88M-W75030H-S1-D	SGMAH-08AAF41D	SGMAH-08AAA41D -OY
R88M-W03030H-BS1-D	SGMAH-A3AAF4CD	SGMAH-A3AAA4CD -OY
R88M-W05030H-BS1-D	SGMAH-A5AAF4CD	SGMAH-A5AAA4CD -OY
R88M-W10030H-BS1-D	SGMAH-01AAF4CD	SGMAH-01AAA4CD -OY
R88M-W20030H-BS1-D	SGMAH-02AAF4CD	SGMAH-02AAA4CD -OY
R88M-W40030H-BS1-D	SGMAH-04AAF4CD	SGMAH-04AAA4CD -OY
R88M-W75030H-BS1-D	SGMAH-08AAF4CD	SGMAH-08AAA4CD -OY
R88M-W03030T-S1-D	SGMAH-A3A1F41D	SGMAH-A3A1A41D -OY
R88M-W05030T-S1-D	SGMAH-A5A1F41D	SGMAH-A5A1A41D -OY
R88M-W10030T-S1-D	SGMAH-01A1F41D	SGMAH-01A1A41D -OY
R88M-W20030T-S1-D	SGMAH-02A1F41D	SGMAH-02A1A41D -OY
R88M-W40030T-S1-D	SGMAH-04A1F41D	SGMAH-04A1A41D -OY
R88M-W75030T-S1-D	SGMAH-08A1F41D	SGMAH-08A1A41D -OY
R88M-W03030T-BS1-D	SGMAH-A3A1F4CD	SGMAH-A3A1A4CD -OY
R88M-W05030T-BS1-D	SGMAH-A5A1F4CD	SGMAH-A5A1A4CD -OY
R88M-W10030T-BS1-D	SGMAH-01A1F4CD	SGMAH-01A1A4CD -OY
R88M-W20030T-BS1-D	SGMAH-02A1F4CD	SGMAH-02A1A4CD -OY
R88M-W40030T-BS1-D	SGMAH-04A1F4CD	SGMAH-04A1A4CD -OY
R88M-W75030T-BS1-D	SGMAH-08A1F4CD	SGMAH-08A1A4CD -OY
R88M-W30030F-S1-D	SGMAH-03DAF41D	SGMAH-03DAA41D -OY
R88M-W65030F-S1-D	SGMAH-07DAF41D	SGMAH-07DAA41D -OY
R88M-W30030F-BS1-D	SGMAH-03DAF4CD	SGMAH-03DAA4CD -OY
R88M-W65030F-BS1-D	SGMAH-07DAF4CD	SGMAH-07DAA4CD -OY
R88M-W30030C-S1-D	SGMAH-03D1F41D	SGMAH-03D1A41D -OY
R88M-W65030C-S1-D	SGMAH-07D1F41D	SGMAH-07D1A41D -OY
R88M-W30030C-BS1-D	SGMAH-03D1F4CD	SGMAH-03D1A4CD -OY
R88M-W65030C-BS1-D	SGMAH-07D1F4CD	SGMAH-07D1A4CD -OY

System Combination						
Servo Drive	EMC Filter	Cables between Motor and Drive				
		Encoder Cable	Power cable			
SGDH-A3AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxS-DE			
SGDH-A5AE-OY						
SGDH-01AE-OY						
SGDH-02AE-OY						
SGDH-04AE-OY	R88A-FIW107-SE	R88A-FIW115-SE	R88A-FIW115-SE			
SGDH-08AE-S-OY						
SGDH-A3AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxB-DE			
SGDH-A5AE-OY						
SGDH-01AE-OY						
SGDH-02AE-OY						
SGDH-04AE-OY	R88A-FIW107-SE	R88A-FIW115-SE	R88A-FIW115-SE			
SGDH-08AE-S-OY						
SGDH-A3AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxS-DE			
SGDH-A5AE-OY						
SGDH-01AE-OY						
SGDH-02AE-OY						
SGDH-04AE-OY	R88A-FIW107-SE	R88A-FIW115-SE	R88A-FIW115-SE			
SGDH-08AE-S-OY						
SGDH-A3AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxB-DE			
SGDH-A5AE-OY						
SGDH-01AE-OY						
SGDH-02AE-OY						
SGDH-04AE-OY	R88A-FIW107-SE	R88A-FIW115-SE	R88A-FIW115-SE			
SGDH-08AE-S-OY						
SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE			
SGDH-10DE-OY						
SGDH-05DE-OY				R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxB-DE
SGDH-10DE-OY						
SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE			
SGDH-10DE-OY						
SGDH-05DE-OY				R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE
SGDH-10DE-OY						
SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxB-DE			
SGDH-10DE-OY						
SGDH-05DE-OY				R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE
SGDH-10DE-OY						

Motor Model Equivalence		
OMRON	YASKAWA	OYMC
R88M-WP10030H-S1-D	SGMPH-01AAA41D	SGMPH-01AAA41D -OY
R88M-WP20030H-S1-D	SGMPH-02AAA41D	SGMPH-02AAA41D -OY
R88M-WP40030H-S1-D	SGMPH-04AAA41D	SGMPH-04AAA41D -OY
R88M-WP75030H-S1-D	SGMPH-08AAA41D	SGMPH-08AAA41D -OY
R88M-WP1K530H-S1-D	SGMPH-15AAA41D	SGMPH-15AAA41D -OY
R88M-WP10030H-BS1-D	SGMPH-01AAA4CD	SGMPH-01AAA4CD -OY
R88M-WP20030H-BS1-D	SGMPH-02AAA4CD	SGMPH-02AAA4CD -OY
R88M-WP40030H-BS1-D	SGMPH-04AAA4CD	SGMPH-04AAA4CD -OY
R88M-WP75030H-BS1-D	SGMPH-08AAA4CD	SGMPH-08AAA4CD -OY
R88M-WP1K530H-BS1-D	SGMPH-15AAA4CD	SGMPH-15AAA4CD -OY
R88M-WP10030T-S1-D	SGMPH-01A1A41D	SGMPH-01A1A41D -OY
R88M-WP20030T-S1-D	SGMPH-02A1A41D	SGMPH-02A1A41D -OY
R88M-WP40030T-S1-D	SGMPH-04A1A41D	SGMPH-04A1A41D -OY
R88M-WP75030T-S1-D	SGMPH-08A1A41D	SGMPH-08A1A41D -OY
R88M-WP1K530T-S1-D	SGMPH-15A1A41D	SGMPH-15A1A41D -OY
R88M-WP10030T-BS1-D	SGMPH-01A1A4CD	SGMPH-01A1A4CD -OY
R88M-WP20030T-BS1-D	SGMPH-02A1A4CD	SGMPH-02A1A4CD -OY
R88M-WP40030T-BS1-D	SGMPH-04A1A4CD	SGMPH-04A1A4CD -OY
R88M-WP75030T-BS1-D	SGMPH-08A1A4CD	SGMPH-08A1A4CD -OY
R88M-WP1K530T-BS1-D	SGMPH-15A1A4CD	SGMPH-15A1A4CD -OY
R88M-WP20030F-S1-D	SGMPH-02DAA41D	SGMPH-02DAA41D -OY
R88M-WP40030F-S1-D	SGMPH-04DAA41D	SGMPH-04DAA41D -OY
R88M-WP75030F-S1-D	SGMPH-08DAA41D	SGMPH-08DAA41D -OY
R88M-WP1K530F-S1-D	SGMPH-15DAA41D	SGMPH-15DAA41D -OY
R88M-WP20030F-BS1-D	SGMPH-02DAA4CD	SGMPH-02DAA4CD -OY
R88M-WP40030F-BS1-D	SGMPH-04DAA4CD	SGMPH-04DAA4CD -OY
R88M-WP75030F-BS1-D	SGMPH-08DAA4CD	SGMPH-08DAA4CD -OY
R88M-WP1K530F-BS1-D	SGMPH-15DAA4CD	SGMPH-15DAA4CD -OY
R88M-WP20030C-S1-D	SGMPH-02D1A41D	SGMPH-02D1A41D -OY
R88M-WP40030C-S1-D	SGMPH-04D1A41D	SGMPH-04D1A41D -OY
R88M-WP75030C-S1-D	SGMPH-08D1A41D	SGMPH-08D1A41D -OY
R88M-WP1K530C-S1-D	SGMPH-15D1A41D	SGMPH-15D1A41D -OY
R88M-WP20030C-BS1-D	SGMPH-02D1A4CD	SGMPH-02D1A4CD -OY
R88M-WP40030C-BS1-D	SGMPH-04D1A4CD	SGMPH-04D1A4CD -OY
R88M-WP75030C-BS1-D	SGMPH-08D1A4CD	SGMPH-08D1A4CD -OY
R88M-WP1K530C-BS1-D	SGMPH-15D1A4CD	SGMPH-15D1A4CD -OY

System Combination						
Servo Drive	EMC Filter	Cable models between Motor and Drive				
		Encoder Cable	Power cable			
SGDH-01AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxS-DE			
SGDH-02AE-OY						
SGDH-04AE-OY						
SGDH-08AE-S-OY						
SGDH-15AE-S-OY	R88A-FIW125-SE	R88A-FIW125-SE	R88A-CAWB0xxS-DE			
SGDH-01AE-OY						
SGDH-02AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxB-DE			
SGDH-04AE-OY						
SGDH-08AE-S-OY						
SGDH-15AE-S-OY						
SGDH-01AE-OY	R88A-FIW107-SE	R88A-FIW115-SE	R88A-FIW115-SE			
SGDH-02AE-OY						
SGDH-04AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxS-DE			
SGDH-08AE-S-OY						
SGDH-15AE-S-OY						
SGDH-01AE-OY						
SGDH-02AE-OY	R88A-FIW104-SE	R88A-CRWA0xxC-DE	R88A-CAWA0xxB-DE			
SGDH-04AE-OY						
SGDH-08AE-S-OY						
SGDH-15AE-S-OY						
SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE			
SGDH-10DE-OY						
SGDH-05DE-OY				R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxB-DE
SGDH-10DE-OY						
SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE			
SGDH-10DE-OY						
SGDH-05DE-OY				R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE
SGDH-10DE-OY						
SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxB-DE			
SGDH-10DE-OY						
SGDH-05DE-OY				R88A-FIW4006-SE	R88A-CRWA0xxC-DE	R88A-CAWK0xxS-DE
SGDH-10DE-OY						



# SGMGH

## Sigma II Servo Motor 400 V

1500 rpm · 0.45 - 15.0 kW

### Cross Reference list

OMRON	→	OYMC
YASKAWA	→	

Note 1: The Omron motors are not provided with Dust Seal. All dimensions are the same

### System combination

- Servo Drive
- EMC Filter
- Cables between Motor and Drive

Please note that xx=03, 05, 10, 15 or 20 (referring to the cable length in meters)

### Motor Characteristics

Power W	Torque Nm	Encoder		Shaft			Attachment			
		INC	ABS	without keyway	with keyway & tap (S2)	taper 1/10 with keyway (S4)	no	Brake +24V	Oil -seal	Dust -seal
		17 bit	17 bit							
0.45	2.84	•			•		Note 1			•
0.85	5.39	•			•		Note 1			•
1.3	8.34	•			•		Note 1			•
1.8	11.5	•			•		Note 1			•
2.9	18.6	•			•		Note 1			•
4.4	28.4	•			•		Note 1			•
5.5	35.0	•			•		Note 1			•
7.5	48.0	•			•		Note 1			•
11.0	70.0	•			•		Note 1			•
15.0	95.4	•			•		Note 1			•
0.45	2.84	•			•		Note 1	•		•
0.85	5.39	•			•		Note 1	•		•
1.3	8.34	•			•		Note 1	•		•
1.8	11.5	•			•		Note 1	•		•
2.9	18.6	•			•		Note 1	•		•
4.4	28.4	•			•		Note 1	•		•
5.5	35.0	•			•		Note 1	•		•
7.5	48.0	•			•		Note 1	•		•
11.0	70.0	•			•		Note 1	•		•
15.0	95.4	•			•		Note 1	•		•
0.45	2.84		•		•		Note 1		•	•
0.85	5.39		•		•		Note 1		•	•
1.3	8.34		•		•		Note 1		•	•
1.8	11.5		•		•		Note 1		•	•
2.9	18.6		•		•		Note 1		•	•
4.4	28.4		•		•		Note 1		•	•
5.5	35.0		•		•		Note 1		•	•
7.5	48.0		•		•		Note 1		•	•
11.0	70.0		•		•		Note 1		•	•
15.0	95.4		•		•		Note 1		•	•
0.45	2.84		•		•		Note 1	•		•
0.85	5.39		•		•		Note 1	•		•
1.3	8.34		•		•		Note 1	•		•
1.8	11.5		•		•		Note 1	•		•
2.9	18.6		•		•		Note 1	•		•
4.4	28.4		•		•		Note 1	•		•
5.5	35.0		•		•		Note 1	•		•
7.5	48.0		•		•		Note 1	•		•
11.0	70.0		•		•		Note 1	•		•
15.0	95.4		•		•		Note 1	•		•

# SGMSH

## Sigma II Servo Motor 400 V

3000 rpm · 1 - 5 kW

### Cross Reference list

OMRON	→	OYMC
YASKAWA	→	

Note 1: The Omron motors are not provided with Dust Seal. All dimensions are the same

### System combination

- Servo Drive
- EMC Filter
- Cables between Motor and Drive

Please note that xx=03, 05, 10, 15 or 20 (referring to the cable length in meters)

### Motor Characteristics

Power W	Torque Nm	Encoder		Shaft			Attachment			
		INC	ABS	without keyway	with keyway & tap (S2)	taper 1/10 with keyway (S4)	no	Brake +24V	Oil -seal	Dust -seal
		17 bit	17 bit							
1.0	3.18	•			•		Note 1			•
1.5	4.9	•			•		Note 1			•
2.0	6.36	•			•		Note 1			•
3.0	9.8	•			•		Note 1			•
4.0	12.6	•			•		Note 1			•
5.0	15.8	•			•		Note 1			•
1.0	3.18	•			•		Note 1	•		•
1.5	4.9	•			•		Note 1	•		•
2.0	6.36	•			•		Note 1	•		•
3.0	9.8	•			•		Note 1	•		•
4.0	12.6	•			•		Note 1	•		•
5.0	15.8	•			•		Note 1	•		•
1.0	3.18		•		•		Note 1		•	•
1.5	4.9		•		•		Note 1		•	•
2.0	6.36		•		•		Note 1		•	•
3.0	9.8		•		•		Note 1		•	•
4.0	12.6		•		•		Note 1		•	•
5.0	15.8		•		•		Note 1		•	•
1.0	3.18		•		•		Note 1	•		•
1.5	4.9		•		•		Note 1	•		•
2.0	6.36		•		•		Note 1	•		•
3.0	9.8		•		•		Note 1	•		•
4.0	12.6		•		•		Note 1	•		•
5.0	15.8		•		•		Note 1	•		•

# SGMUH

## Sigma II Servo Motor 400 V

6000 rpm · 1 - 4 kW

Same notes than SGMGH & SGMSH Models

### Motor Characteristics

Power W	Torque Nm	Encoder		Shaft			Attachment			
		INC	ABS	without keyway	with keyway & tap (S2)	taper 1/10 with keyway (S4)	no	Brake +24V	Oil -seal	Dust -seal
		17 bit	17 bit							
1.0	2.84	•			•		Note 1			•
1.5	5.68	•			•		Note 1			•
3.0	8.62	•			•		Note 1			•
4.0	11.5	•			•		Note 1			•
1.0	2.84	•			•		Note 1	•		•
1.5	5.68	•			•		Note 1	•		•
3.0	8.62	•			•		Note 1	•		•
4.0	11.5	•			•		Note 1	•		•

Motor Model Equivalence			System Combination				
OMRON (See Note 1)	YASKAWA	OYMC	Servo Drive	EMC Filter	Cables between Motor and Drive		
					Encoder Cable	Power cable	Brake cable only
R88M-W45015F-S2	SGMGH-05DCA6F	SGMGH-05DCA6F-OY	SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W85015F-S2	SGMGH-09DCA6F	SGMGH-09DCA6F-OY	SGDH-10DE-OY	R88A-FIW4006-SE			
R88M-W1K315F-S2	SGMGH-13DCA6F	SGMGH-13DCA6F-OY	SGDH-15DE-OY	R88A-FIW4006-SE			
R88M-W1K815F-S2	SGMGH-20DCA6F	SGMGH-20DCA6F-OY	SGDH-20DE-OY	R88A-FIW4010-SE			
R88M-W2K915F-S2	SGMGH-30DCA6F	SGMGH-30DCA6F-OY	SGDH-30DE-OY	R88A-FIW4010-SE			
R88M-W4K415F-S2	SGMGH-44DCA6F	SGMGH-44DCA6F-OY	SGDH-50DE-OY	R88A-FIW4020-SE			
R88M-W5K515F-S2	SGMGH-55DCA6F	SGMGH-55DCA6F-OY	SGDH-60DE-OY	R88A-FIW4030-SE			
R88M-W7K515F-S2	SGMGH-75DCA6F	SGMGH-75DCA6F-OY	SGDH-75DE-OY	R88A-FIW4030-SE			
R88M-W11K015F-S2	SGMGH-1ADCA6F	SGMGH-1ADCA6F-OY	SGDH-1ADE-OY	R88A-FIW4055-SE			
R88M-W15K015F-S2	SGMGH-1EDCA6F	SGMGH-1EDCA6F-OY	SGDH-1EDE-OY	R88A-FIW4055-SE			
R88M-W45015F-BS2	SGMGH-05DCA6H	SGMGH-05DCA6H-OY	SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W85015F-BS2	SGMGH-09DCA6H	SGMGH-09DCA6H-OY	SGDH-10DE-OY	R88A-FIW4006-SE			
R88M-W1K315F-BS2	SGMGH-13DCA6H	SGMGH-13DCA6H-OY	SGDH-15DE-OY	R88A-FIW4006-SE			
R88M-W1K815F-BS2	SGMGH-20DCA6H	SGMGH-20DCA6H-OY	SGDH-20DE-OY	R88A-FIW4010-SE			
R88M-W2K915F-BS2	SGMGH-30DCA6H	SGMGH-30DCA6H-OY	SGDH-30DE-OY	R88A-FIW4010-SE			
R88M-W4K415F-BS2	SGMGH-44DCA6H	SGMGH-44DCA6H-OY	SGDH-50DE-OY	R88A-FIW4020-SE			
R88M-W5K515F-BS2	SGMGH-55DCA6H	SGMGH-55DCA6H-OY	SGDH-60DE-OY	R88A-FIW4030-SE			
R88M-W7K515F-BS2	SGMGH-75DCA6H	SGMGH-75DCA6H-OY	SGDH-75DE-OY	R88A-FIW4030-SE			
R88M-W11K015F-BS2	SGMGH-1ADCA6H	SGMGH-1ADCA6H-OY	SGDH-1ADE-OY	R88A-FIW4055-SE			
R88M-W15K015F-BS2	SGMGH-1EDCA6H	SGMGH-1EDCA6H-OY	SGDH-1EDE-OY	R88A-FIW4055-SE			
R88M-W45015C-S2	SGMGH-05D2A6F	SGMGH-05D2A6F-OY	SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W85015C-S2	SGMGH-09D2A6F	SGMGH-09D2A6F-OY	SGDH-10DE-OY	R88A-FIW4006-SE			
R88M-W1K315C-S2	SGMGH-13D2A6F	SGMGH-13D2A6F-OY	SGDH-15DE-OY	R88A-FIW4006-SE			
R88M-W1K815C-S2	SGMGH-20D2A6F	SGMGH-20D2A6F-OY	SGDH-20DE-OY	R88A-FIW4010-SE			
R88M-W2K915C-S2	SGMGH-30D2A6F	SGMGH-30D2A6F-OY	SGDH-30DE-OY	R88A-FIW4010-SE			
R88M-W4K415C-S2	SGMGH-44D2A6F	SGMGH-44D2A6F-OY	SGDH-50DE-OY	R88A-FIW4020-SE			
R88M-W5K515C-S2	SGMGH-55D2A6F	SGMGH-55D2A6F-OY	SGDH-60DE-OY	R88A-FIW4030-SE			
R88M-W7K515C-S2	SGMGH-75D2A6F	SGMGH-75D2A6F-OY	SGDH-75DE-OY	R88A-FIW4030-SE			
R88M-W11K015C-S2	SGMGH-1AD2A6F	SGMGH-1AD2A6F-OY	SGDH-1ADE-OY	R88A-FIW4055-SE			
R88M-W15K015C-S2	SGMGH-1ED2A6F	SGMGH-1ED2A6F-OY	SGDH-1EDE-OY	R88A-FIW4055-SE			
R88M-W45015C-BS2	SGMGH-05D2A6H	SGMGH-05D2A6H-OY	SGDH-05DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W85015C-BS2	SGMGH-09D2A6H	SGMGH-09D2A6H-OY	SGDH-10DE-OY	R88A-FIW4006-SE			
R88M-W1K315C-BS2	SGMGH-13D2A6H	SGMGH-13D2A6H-OY	SGDH-15DE-OY	R88A-FIW4006-SE			
R88M-W1K815C-BS2	SGMGH-20D2A6H	SGMGH-20D2A6H-OY	SGDH-20DE-OY	R88A-FIW4010-SE			
R88M-W2K915C-BS2	SGMGH-30D2A6H	SGMGH-30D2A6H-OY	SGDH-30DE-OY	R88A-FIW4010-SE			
R88M-W4K415C-BS2	SGMGH-44D2A6H	SGMGH-44D2A6H-OY	SGDH-50DE-OY	R88A-FIW4020-SE			
R88M-W5K515C-BS2	SGMGH-55D2A6H	SGMGH-55D2A6H-OY	SGDH-60DE-OY	R88A-FIW4030-SE			
R88M-W7K515C-BS2	SGMGH-75D2A6H	SGMGH-75D2A6H-OY	SGDH-75DE-OY	R88A-FIW4030-SE			
R88M-W11K015C-BS2	SGMGH-1AD2A6H	SGMGH-1AD2A6H-OY	SGDH-1ADE-OY	R88A-FIW4055-SE			
R88M-W15K015C-BS2	SGMGH-1ED2A6H	SGMGH-1ED2A6H-OY	SGDH-1EDE-OY	R88A-FIW4055-SE			

Motor Model Equivalence			System Combination							
OMRON (See Note 1)	YASKAWA	OYMC	Servo Drive	EMC Filter	Cables between Motor and Drive					
					Encoder Cable	Power cable	Brake cable only			
R88M-W1K030F-S2	SGMSH-10DCA6F	SGMSH-10DCA6F-OY	SGDH-10DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E			
R88M-W1K530F-S2	SGMSH-15DCA6F	SGMSH-15DCA6F-OY	SGDH-15DE-OY	R88A-FIW4006-SE						
R88M-W2K030F-S2	SGMSH-20DCA6F	SGMSH-20DCA6F-OY	SGDH-20DE-OY	R88A-FIW4010-SE						
R88M-W3K030F-S2	SGMSH-30DCA6F	SGMSH-30DCA6F-OY	SGDH-30DE-OY	R88A-FIW4010-SE						
R88M-W4K030F-S2	SGMSH-40DCA6F	SGMSH-40DCA6F-OY	SGDH-50DE-OY	R88A-FIW4020-SE						
R88M-W5K030F-S2	SGMSH-50DCA6F	SGMSH-50DCA6F-OY	SGDH-60DE-OY	R88A-FIW4020-SE						
R88M-W1K030F-BS2	SGMSH-10DCA6H	SGMSH-10DCA6H-OY	SGDH-10DE-OY	R88A-FIW4006-SE				R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W1K530F-BS2	SGMSH-15DCA6H	SGMSH-15DCA6H-OY	SGDH-15DE-OY	R88A-FIW4006-SE						
R88M-W2K030F-BS2	SGMSH-20DCA6H	SGMSH-20DCA6H-OY	SGDH-20DE-OY	R88A-FIW4010-SE						
R88M-W3K030F-BS2	SGMSH-30DCA6H	SGMSH-30DCA6H-OY	SGDH-30DE-OY	R88A-FIW4010-SE						
R88M-W4K030F-BS2	SGMSH-40DCA6H	SGMSH-40DCA6H-OY	SGDH-50DE-OY	R88A-FIW4020-SE						
R88M-W5K030F-BS2	SGMSH-50DCA6H	SGMSH-50DCA6H-OY	SGDH-60DE-OY	R88A-FIW4020-SE						
R88M-W1K030C-S2	SGMSH-10D2A6F	SGMSH-10D2A6F-OY	SGDH-10DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E			
R88M-W1K530C-S2	SGMSH-15D2A6F	SGMSH-15D2A6F-OY	SGDH-15DE-OY	R88A-FIW4006-SE						
R88M-W2K030C-S2	SGMSH-20D2A6F	SGMSH-20D2A6F-OY	SGDH-20DE-OY	R88A-FIW4010-SE						
R88M-W3K030C-S2	SGMSH-30D2A6F	SGMSH-30D2A6F-OY	SGDH-30DE-OY	R88A-FIW4010-SE						
R88M-W4K030C-S2	SGMSH-40D2A6F	SGMSH-40D2A6F-OY	SGDH-50DE-OY	R88A-FIW4020-SE						
R88M-W5K030C-S2	SGMSH-50D2A6F	SGMSH-50D2A6F-OY	SGDH-60DE-OY	R88A-FIW4020-SE						
R88M-W1K030C-BS2	SGMSH-10D2A6H	SGMSH-10D2A6H-OY	SGDH-10DE-OY	R88A-FIW4006-SE				R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W1K530C-BS2	SGMSH-15D2A6H	SGMSH-15D2A6H-OY	SGDH-15DE-OY	R88A-FIW4006-SE						
R88M-W2K030C-BS2	SGMSH-20D2A6H	SGMSH-20D2A6H-OY	SGDH-20DE-OY	R88A-FIW4010-SE						
R88M-W3K030C-BS2	SGMSH-30D2A6H	SGMSH-30D2A6H-OY	SGDH-30DE-OY	R88A-FIW4010-SE						
R88M-W4K030C-BS2	SGMSH-40D2A6H	SGMSH-40D2A6H-OY	SGDH-50DE-OY	R88A-FIW4020-SE						
R88M-W5K030C-BS2	SGMSH-50D2A6H	SGMSH-50D2A6H-OY	SGDH-60DE-OY	R88A-FIW4020-SE						

Motor Model Equivalence			System Combination							
OMRON (See Note 1)	YASKAWA	OYMC	Servo Drive	EMC Filter	Cables between Motor and Drive					
					Encoder Cable	Power cable	Brake cable only			
R88M-W1K060F-S2	SGMUH-10DCA6F	SGMUH-10DCA6F-OY	SGDH-10DE-OY	R88A-FIW4006-SE	R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E			
R88M-W1K560F-S2	SGMUH-15DCA6F	SGMUH-15DCA6F-OY	SGDH-15DE-OY	R88A-FIW4006-SE						
R88M-W3K060F-S2	SGMUH-30DCA6F	SGMUH-30DCA6F-OY	SGDH-30DE-OY	R88A-FIW4010-SE						
R88M-W4K060F-S2	SGMUH-40DCA6F	SGMUH-40DCA6F-OY	SGDH-50DE-OY	R88A-FIW4020-SE						
R88M-W1K060F-BS2	SGMUH-10DCA6H	SGMUH-10DCA6H-OY	SGDH-10DE-OY	R88A-FIW4006-SE				R88A-CRWB0xxN-E	R88A-CAWC0xxS-E	R88A-CAWD0xxS-E
R88M-W1K560F-BS2	SGMUH-15DCA6H	SGMUH-15DCA6H-OY	SGDH-15DE-OY	R88A-FIW4006-SE						
R88M-W3K060F-BS2	SGMUH-30DCA6H	SGMUH-30DCA6H-OY	SGDH-30DE-OY	R88A-FIW4010-SE						
R88M-W4K060F-BS2	SGMUH-40DCA6H	SGMUH-40DCA6H-OY	SGDH-50DE-OY	R88A-FIW4020-SE						

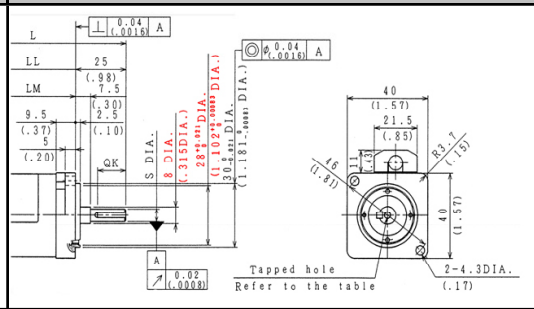
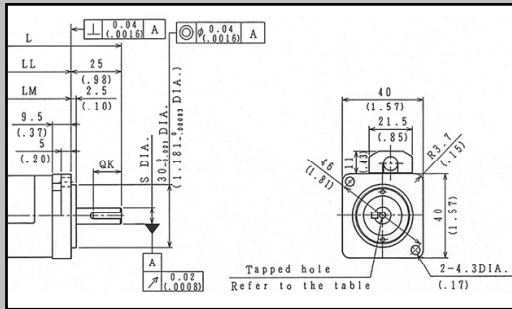
Dimension details for note1 on page 8.

**SGMAH-\_\_AAA\_OY**

**Normal Omron and OYMC Motors**

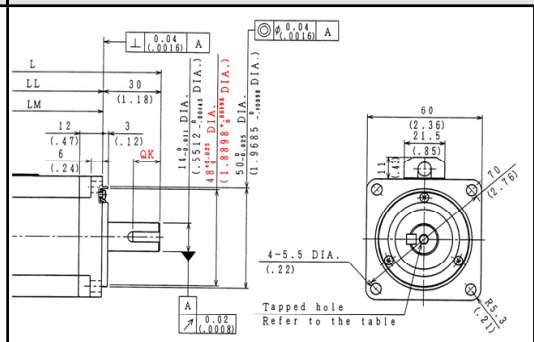
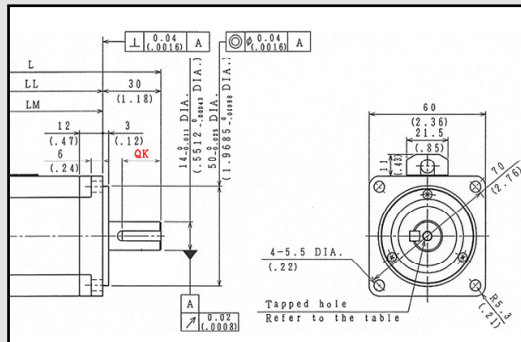
**SGMAH-\_\_AAF\_**

**Yaskawa motors prepared for Oil seal**



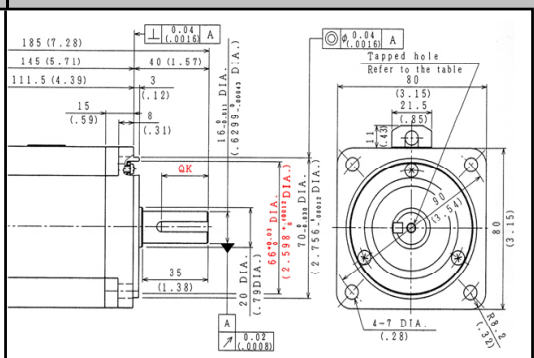
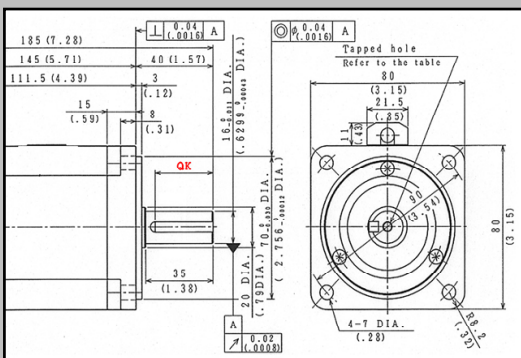
<i>A3, A5</i>	QK:	14 <sup>0</sup> <sub>-0,18</sub>	(,55 <sup>0,001</sup> <sub>-0,005</sub> )
	S:	6 <sup>0</sup> <sub>-0,008</sub>	(,236 <sup>0</sup> <sub>-0,003</sub> )
<i>01</i>	QK:	14 <sup>0</sup> <sub>-0,18</sub>	(,55 <sup>0,001</sup> <sub>-0,005</sub> )
	S:	8 <sup>0</sup> <sub>-0,009</sub>	(,315 <sup>0</sup> <sub>-0,004</sub> )

	QK:	14 <sup>0</sup> <sub>-0,18</sub>	(,55 <sup>0,001</sup> <sub>-0,005</sub> )
	S:	6 <sup>0</sup> <sub>-0,008</sub>	(,236 <sup>0</sup> <sub>-0,003</sub> )
	QK:	14 <sup>0</sup> <sub>-0,18</sub>	(,55 <sup>0,001</sup> <sub>-0,005</sub> )
	S:	8 <sup>0</sup> <sub>-0,009</sub>	(,315 <sup>0</sup> <sub>-0,004</sub> )



<i>02, 04</i>	QK:	20 <sup>0</sup> <sub>-0,21</sub>	(,78 <sup>0,007</sup> <sub>0</sub> )
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	QK:	14 <sup>0</sup> <sub>-0,18</sub>	(,55 <sup>0,001</sup> <sub>-0,005</sub> )
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<i>08</i>	QK:	30 <sup>0</sup> <sub>-0,21</sub>	(1,18 <sup>0,001</sup> <sub>-0,007</sub> )
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	QK:	25 <sup>0</sup> <sub>-0,21</sub>	(0,98 <sup>0,004</sup> <sub>-0,004</sub> )
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# E7 Frequency Inverters

OMRON  
YASKAWA



OYMC

Description	OMRON	YASKAWA	OYMC	Cross Reference List
E7 / PV Frequency Inverter	3G3PV-___	CIMR-E7C__	CIMR-E7Z__	Pages 14-15

OMRON  
Model  
description

3G3PV- A 2 004

**Maximum applicable motor capacity**

004=0.4kW...220=22kW...30K=300kW

**Power Supply**

2=220V 3-phase, 4=400V 3-phase

**Protection**

A: IP20

B: Open chassis (IP00)

OYMC  
Model  
description

CIMR- E7 Z 2 0P4 0

**Protection**

0: Open chassis (IP00)

1: IP20

**Maximum applicable motor capacity**

0P4=0.4kW...022=22kW...300=300kW

**Power Supply**

2=220V 3-phase, 4=400V 3-phase

**Brand Specification**

Z= Omron Yaskawa Motion Control

C=Yaskawa

# F7 Frequency Inverters

OMRON  
YASKAWA



OYMC

Description	OMRON	YASKAWA	OYMC	Cross Reference List
F7 / RV Frequency Inverter	3G3RV-___	CIMR-F7C__	CIMR-F7Z__	Pages 16-17

OMRON  
Model  
description

3G3RV- A 2 004

**Maximum applicable motor capacity**

004=0.4kW...220=22kW...30K=300kW

**Power Supply**

2=220V 3-phase, 4=400V 3-phase

**Protection**

A: IP20

B: Open chassis (IP00)

OYMC  
Model  
description

CIMR- F7 Z 2 0P4 0

**Protection**

0: Open chassis (IP00)

1: IP20

**Maximum applicable motor capacity**

0P4=0.4kW...022=22kW...300=300kW

**Power Supply**

2=220V 3-phase, 4=400V 3-phase

**Brand Specification**

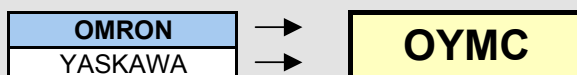
Z= Omron Yaskawa Motion Control

C=Yaskawa

# Varispeed E7

## Varispeed E7 Models and Sysdrive 3G3PV

### Cross Reference list



### System combination

- EMC Filters

### Inverter Characteristics

Voltage	Protection	Maximum applicable motor capacity (kW)	Rated Output Current (A)	
400V Class (3-Phase)	(IP20) NEMA1 as standad  (IP00) is option	0,55	1,8	
		0,75	2,1	
		1,5	3,7	
		2,2	5,3	
		3,7	7,6	
		4	8,7	
		5,5	12,5	
		7,5	17	
		11	24	
		15	31	
		18,5	39	
		Open Chassis Type (IP00)  NEMA1(IP20) is option	22	45
	30		60	
	37		75	
	45		91	
	55		112	
	75		150	
	90		180	
	110		216	
	132		260	
	160		304	
	Open Chassis Type (IP00) Only		185	370
			220	506
		300	675	
200V Class (3-Phase)	(IP20) NEMA1 as standad  (IP00) is option	0,55	3,2	
		0,75	4,1	
		1,5	7,0	
		2,2	9,6	
		3,7	15	
		5,5	23	
		7,5	31	
		11	45	
		15	58	
		18,5	71	
		Open Chassis Type (IP00)  NEMA1(IP20) is option	22	85
			30	115
	37		145	
	45		180	
	55		215	
	75		283	
	Open Chassis Type (IP00) Only		90	346
			110	415

Motor Model Equivalence		
OMRON	YASKAWA	OYMC
3G3PV-A4004	CIMR-E7C40P41	CIMR-E7Z40P41
3G3PV-A4007	CIMR-E7C40P71	CIMR-E7Z40P71
3G3PV-A4015	CIMR-E7C41P51	CIMR-E7Z41P51
3G3PV-A4022	CIMR-E7C42P21	CIMR-E7Z42P21
3G3PV-A4037	CIMR-E7C43P71	CIMR-E7Z43P71
3G3PV-A4040	CIMR-E7C44P01	CIMR-E7Z44P01
3G3PV-A4055	CIMR-E7C45P51	CIMR-E7Z45P51
3G3PV-A4075	CIMR-E7C47P51	CIMR-E7Z47P51
3G3PV-A4110	CIMR-E7C40111	CIMR-E7Z40111
3G3PV-A4150	CIMR-E7C40151	CIMR-E7Z40151
3G3PV-A4185	CIMR-E7C40181	CIMR-E7Z40181
3G3PV-B4220	CIMR-E7C40220	CIMR-E7Z40220
3G3PV-B4300	CIMR-E7C40300	CIMR-E7Z40300
3G3PV-B4370	CIMR-E7C40370	CIMR-E7Z40370
3G3PV-B4450	CIMR-E7C40450	CIMR-E7Z40450
3G3PV-B4550	CIMR-E7C40550	CIMR-E7Z40550
3G3PV-B4750	CIMR-E7C40750	CIMR-E7Z40750
3G3PV-B4900	CIMR-E7C40900	CIMR-E7Z40900
3G3PV-B411K	CIMR-E7C41100	CIMR-E7Z41100
3G3PV-B413K	CIMR-E7C41320	CIMR-E7Z41320
3G3PV-B416K	CIMR-E7C41600	CIMR-E7Z41600
3G3PV-B418K	CIMR-E7C41850	CIMR-E7Z41850
3G3PV-B420K	CIMR-E7C42200	CIMR-E7Z42200
3G3PV-B430K	CIMR-E7C43000	CIMR-E7Z43000
3G3PV-A2004	CIMR-E7C20P41	CIMR-E7Z20P41
3G3PV-A2007	CIMR-E7C20P71	CIMR-E7Z20P71
3G3PV-A2015	CIMR-E7C21P51	CIMR-E7Z21P51
3G3PV-A2022	CIMR-E7C22P21	CIMR-E7Z22P21
3G3PV-A2037	CIMR-E7C23P71	CIMR-E7Z23P71
3G3PV-A2055	CIMR-E7C25P51	CIMR-E7Z25P51
3G3PV-A2075	CIMR-E7C27P51	CIMR-E7Z27P51
3G3PV-A2110	CIMR-E7C20111	CIMR-E7Z20111
3G3PV-A2150	CIMR-E7C20151	CIMR-E7Z20151
3G3PV-A2185	CIMR-E7C20181	CIMR-E7Z20181
3G3PV-B2220	CIMR-E7C20220	CIMR-E7Z20220
3G3PV-B2300	CIMR-E7C20300	CIMR-E7Z20300
3G3PV-B2370	CIMR-E7C20370	CIMR-E7Z20370
3G3PV-B2450	CIMR-E7C20450	CIMR-E7Z20450
3G3PV-B2550	CIMR-E7C20550	CIMR-E7Z20550
3G3PV-B2750	CIMR-E7C20750	CIMR-E7Z20750
3G3PV-B2900	CIMR-E7C20900	CIMR-E7Z20900
3G3PV-B211K	CIMR-E7C21100	CIMR-E7Z21100

EMC Filter			
Filter model	Rated Current (Amps)	Weight (kg)	Dimensions W * D * H
3G3RV-PFI3010-SE	10	1,1	141*46*330
3G3RV-PFI3018-SE	18	1,3	141*46*330
3G3RV-PFI3035-SE	35	2,1	206*50*355
3G3RV-PFI3060-SE	60	4,0	236*65*408
3G3RV-PFI3070-SE	70	3,4	80*185*329
3G3RV-PFI3130-SE	130	4,7	90*180*366
3G3RV-PFI3170-SE	170	6,0	120*170*451
3G3RV-PFI3200-SE	250	11	130*240*610
3G3RV-PFI3400-SE	400	18,5	300*160*610
3G3RV-PFI3600-SE	600	11,0	260*135*386
3G3RV-PFI3800-SE	800	31,0	300*160*716
3G3RV-PFI3010-SE	10	1,1	141*45*330
3G3RV-PFI3018-SE	18	1,3	141*46*330
3G3RV-PFI2035-SE	35	1,4	141*46*330
3G3RV-PFI2060-SE	60	3	206*60*355
3G3RV-PFI2100-SE	100	4,9	236*80*408
3G3RV-PFI2130-SE	130	4,3	90*180*366
3G3RV-PFI2160-SE	160	6,0	120*170*451
3G3RV-PFI2200-SE	200	11,0	130*240*610
3G3RV-PFI3400-SE	400	18,5	300*160*564
3G3RV-PFI3600-SE	600	11,0	260*135*386

# Varispeed F7

## Varispeed F7 Models and Sysdrive 3G3RV

### Cross Reference list



### System combination

- EMC Filters

### Inverter Characteristics

Voltage	Protection	Maximum applicable motor capacity (kW)	Rated Output Current (A)	
400V Class (3-Phase)	(IP20) NEMA1 as standad  (IP00) is option	0,55	1,8	
		0,75	2,1	
		1,5	3,7	
		2,2	5,3	
		3,7	7,6	
		4	8,7	
		5,5	12,5	
		7,5	17	
		11	24	
		15	31	
	18,5	39		
	Open Chassis Type (IP00)  NEMA1(IP20) is option	22	45	
		30	60	
		37	75	
		45	91	
		55	112	
		75	150	
		90	180	
		110	216	
		132	260	
		160	304	
	Open Chassis Type (IP00) Only	185	370	
220		506		
		300	675	
200V Class (3-Phase)	(IP20) NEMA1 as standad  (IP00) is option	0,55	3,2	
		0,75	4,1	
		1,5	7,0	
		2,2	9,6	
		3,7	15	
		5,5	23	
		7,5	31	
		11	45	
		15	58	
		18,5	71	
	Open Chassis Type (IP00)  NEMA1(IP20) is option	22	85	
		30	115	
		37	145	
		45	180	
		55	215	
		75	283	
		Open Chassis Type (IP00) Only	90	346
			110	415

Motor Model Equivalence		
OMRON	YASKAWA	OYMC
3G3RV-A4004	CIMR-F7C40P41	CIMR-F7Z40P41
3G3RV-A4007	CIMR-F7C40P71	CIMR-F7Z40P71
3G3RV-A4015	CIMR-F7C41P51	CIMR-F7Z41P51
3G3RV-A4022	CIMR-F7C42P21	CIMR-F7Z42P21
3G3RV-A4037	CIMR-F7C43P71	CIMR-F7Z43P71
3G3RV-A4040	CIMR-F7C44P01	CIMR-F7Z44P01
3G3RV-A4055	CIMR-F7C45P51	CIMR-F7Z45P51
3G3RV-A4075	CIMR-F7C47P51	CIMR-F7Z47P51
3G3RV-A4110	CIMR-F7C40111	CIMR-F7Z40111
3G3RV-A4150	CIMR-F7C40151	CIMR-F7Z40151
3G3RV-A4185	CIMR-F7C40181	CIMR-F7Z40181
3G3RV-B4220	CIMR-F7C40220	CIMR-F7Z40220
3G3RV-B4300	CIMR-F7C40300	CIMR-F7Z40300
3G3RV-B4370	CIMR-F7C40370	CIMR-F7Z40370
3G3RV-B4450	CIMR-F7C40450	CIMR-F7Z40450
3G3RV-B4550	CIMR-F7C40550	CIMR-F7Z40550
3G3RV-B4750	CIMR-F7C40750	CIMR-F7Z40750
3G3RV-B4900	CIMR-F7C40900	CIMR-F7Z40900
3G3RV-B411K	CIMR-F7C41100	CIMR-F7Z41100
3G3RV-B413K	CIMR-F7C41320	CIMR-F7Z41320
3G3RV-B416K	CIMR-F7C41600	CIMR-F7Z41600
3G3RV-B418K	CIMR-F7C41850	CIMR-F7Z41850
3G3RV-B420K	CIMR-F7C42200	CIMR-F7Z42200
3G3RV-B430K	CIMR-F7C43000	CIMR-F7Z43000
3G3RV-A2004	CIMR-F7C20P41	CIMR-F7Z20P41
3G3RV-A2007	CIMR-F7C20P71	CIMR-F7Z20P71
3G3RV-A2015	CIMR-F7C21P51	CIMR-F7Z21P51
3G3RV-A2022	CIMR-F7C22P21	CIMR-F7Z22P21
3G3RV-A2037	CIMR-F7C23P71	CIMR-F7Z23P71
3G3RV-A2055	CIMR-F7C25P51	CIMR-F7Z25P51
3G3RV-A2075	CIMR-F7C27P51	CIMR-F7Z27P51
3G3RV-A2110	CIMR-F7C20111	CIMR-F7Z20111
3G3RV-A2150	CIMR-F7C20151	CIMR-F7Z20151
3G3RV-A2185	CIMR-F7C20181	CIMR-F7Z20181
3G3RV-B2220	CIMR-F7C20220	CIMR-F7Z20220
3G3RV-B2300	CIMR-F7C20300	CIMR-F7Z20300
3G3RV-B2370	CIMR-F7C20370	CIMR-F7Z20370
3G3RV-B2450	CIMR-F7C20450	CIMR-F7Z20450
3G3RV-B2550	CIMR-F7C20550	CIMR-F7Z20550
3G3RV-B2750	CIMR-F7C20750	CIMR-F7Z20750
3G3RV-B2900	CIMR-F7C20900	CIMR-F7Z20900
3G3RV-B211K	CIMR-F7C21100	CIMR-F7Z21100

EMC Filter			
Filter model	Rated Current (Amps)	Weight (kg)	Dimensions W * D * H
3G3RV-PFI3010-SE	10	1,1	141*46*330
3G3RV-PFI3018-SE	18	1,3	141*46*330
3G3RV-PFI3035-SE	35	2,1	206*50*355
3G3RV-PFI3060-SE	60	4,0	236*65*408
3G3RV-PFI3070-SE	70	3,4	80*185*329
3G3RV-PFI3130-SE	130	4,7	90*180*366
3G3RV-PFI3170-SE	170	6,0	120*170*451
3G3RV-PFI3200-SE	250	11	130*240*610
3G3RV-PFI3400-SE	400	18,5	300*160*610
3G3RV-PFI3600-SE	600	11,0	260*135*386
3G3RV-PFI3800-SE	800	31,0	300*160*716
3G3RV-PFI3010-SE	10	1,1	141*45*330
3G3RV-PFI3018-SE	18	1,3	141*46*330
3G3RV-PFI2035-SE	35	1,4	141*46*330
3G3RV-PFI2060-SE	60	3	206*60*355
3G3RV-PFI2100-SE	100	4,9	236*80*408
3G3RV-PFI2130-SE	130	4,3	90*180*366
3G3RV-PFI2160-SE	160	6,0	120*170*451
3G3RV-PFI2200-SE	200	11,0	130*240*610
3G3RV-PFI3400-SE	400	18,5	300*160*564
3G3RV-PFI3600-SE	600	11,0	260*135*386



## Product Comparison Sigma II-OY vs W-Series vs Sigma-II

	Feature	OMRON Omnuc W	YASKAWA Sigma II	OYMC Sigma II
Appearance	Company logo	OMRON logo	YASKAWA logo	OYMC logo
	Product Name	Omnuc W Series	Sigma II Series	Sigma II Series
	MODEL	R88D-WT****	SGDH-***	SGDH-***_OY
	Digital Operator	OMRON color/symbol w/OMRON logo	YASKAWA color/symbol w/YASKAWA logo	YASKAWA color/symbol w/YASKAWA logo
User Interface	Digital operator	R88A-PR02W	JUSP-OP02A	JUSP-OP02A

## Product Comparison E7Z vs 3G3PV vs E7C

	Feature	OMRON PV	YASKAWA E7C	OYMC E7Z
Appearance	Company logo	OMRON logo	YASKAWA logo	OYMC logo
	Product Name	Sysdrive 3G3PV	Varipeed E7	Varispeed E7
	MODEL	3G3PV-*****	CIMR-E7C****	CIMR-E7Z****
	Digital Operator	OMRON color/symbol w/OMRON logo	YASKAWA color/symbol w/YASKAWA logo	OMRON color/symbol w/OYMC logo
User Interface	Digital operator	PJVOP-161 (LED type)	JVOP-161 (LED type)	JVOP-161-OY (LED type)

## Product Comparison F7Z vs 3G3RV vs F7C

	Feature	OMRON RV	YASKAWA F7C	OYMC F7Z
Appearance	Company logo	OMRON logo	YASKAWA logo	OYMC logo
	Product Name	Sysdrive 3G3RV	Varipeed F7	Varispeed F7
	MODEL	3G3RV-*****	CIMR-F7C****	CIMR-F7Z****
	Digital Operator	OMRON color/symbol w/OMRON logo	YASKAWA color/symbol w/YASKAWA logo	OMRON color/symbol w/OYMC logo
Basic Specification	Overload/carrier fc/rated current	VT/Hi-fc, CT/Lo-fc		VT/Hi-fc, CT/Lo-fc <b>VT/lo-fc/hi-current (VT2), CT/Hi-fc/Lo-Current</b>
	Control mode	V/f, V/f w/PG, VVC		V/f, V/f w/PG, VVC, <b>FVC</b>
	Speed control range	1:100		1:100, <b>1:1000 (FVC)</b>
	Speed control accuracy	+/-0.2%		+/-0.2%, <b>+/-0.02%(FVC)</b>
	Torque control	not possible		Possible
User Interface	Digital operator	PJVOP-161 (LED type)	JVOP-161 (LED type)	JVOP-160-OY ( <b>LCD type</b> )
Option units	Option Boards Available	Serial communication option (SI-xx)		Serial communication option (SI-xx) <b>Analog input option (A1-xx)</b> <b>Digital input option (DI-xx)</b>

OMRON YASKAWA MOTION CONTROL B.V. Wegalaan 65, 2132 JD Hoofddorp, The Netherlands. Tel: +31 (0) 23 568 74 00 Fax: +31 (0) 23 568 74 88 [www.omronyaskawa.com](http://www.omronyaskawa.com)



Austria  
Tel: +43 (0) 1 80 19 00  
[www.omron.at](http://www.omron.at)



France  
Tel: +33 (0) 1 49 74 70 00  
[www.omron.fr](http://www.omron.fr)



Norway  
Tel: +47 (0) 22 65 75 00  
[www.omron.no](http://www.omron.no)



Sweden  
Tel: +46 (0) 8 632 35 00  
[www.omron.se](http://www.omron.se)



Belgium  
Tel: +32 (0) 2 466 24 80  
[www.omron.be](http://www.omron.be)



Germany  
Tel: +49 (0) 2173 680 00  
[www.omron.de](http://www.omron.de)



Poland  
Tel: +48 (0) 22 645 78 60  
[www.omron.com.pl](http://www.omron.com.pl)



Switzerland  
Tel: +41 (0) 41 748 13 13  
[www.omron.ch](http://www.omron.ch)



Czech Republic  
Tel: +420 (0) 267 31 12 54  
[www.omron.cz](http://www.omron.cz)



Hungary  
Tel: +36 (0) 1 399 30 50  
[www.omron.hu](http://www.omron.hu)



Portugal  
Tel: +351 21 942 94 00  
[www.omron.pt](http://www.omron.pt)



Turkey  
Tel: +90 (0) 216 326 29 80  
[www.omron.com.tr](http://www.omron.com.tr)



Denmark  
Tel: +45 43 44 00 11  
[www.omron.dk](http://www.omron.dk)



Italy  
Tel: +39 02 32 681  
[www.omron.it](http://www.omron.it)



Russia  
Tel: +7 095 745 26 64  
[www.russia.omron.com](http://www.russia.omron.com)



United Kingdom  
Tel: +44 (0) 870 752 0861  
[www.omron.co.uk](http://www.omron.co.uk)



Finland  
Tel: +358 (0) 9 549 58 00  
[www.omron.fi](http://www.omron.fi)



Netherlands  
Tel: +31 (0) 23 568 11 00  
[www.omron.nl](http://www.omron.nl)



Spain  
Tel: +34 913 777 900  
[www.omron.es](http://www.omron.es)

For the Middle East, Africa and other countries in Eastern Europe, Tel: +31 (0) 23 568 13 22 [www.eu.omron.com](http://www.eu.omron.com)