

AC SERVO DRIVES SIGMA-5 SERIES



About YASKAWA

V SERIES

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Experience & Innovation

For more than 90 years YASKAWA has been supplying mechatronic products and is one of the leading companies for motion control products worldwide. YASKAWA develops and manufactures Inverter Drives, Servo Drives and Motion Controllers and has introduced many ground-breaking innovations over the past decades. YASKAWA products are used in all fields of machine building and industrial automation and have a high reputation for their outstanding quality and durability.

Sigma-5 – New Servo-Drive Series from YASKAWA: highest accuracy, easiest set-up and unlimited connectivity

Sigma-5 is a servo pack, consisting of servo motors, servo amplifiers and a powerful set-up tool. Sigma-5 replaces the successful Sigma-2 series which has been available for several years now for a wide range of applications. Customers using the Sigma-2 products for their machines, will have sufficient time to implement the changeover to Sigma-5.

The new Sigma-5 series offers rotary, direct drive and linear motors. The rotary servo motor range will be available in several performance categories between 0.1 and 15 kW. They cover all market demands with regard to compact size, high dynamics, high efficiency, low maintenance and outstanding reliability.

The most impressive feature of the Sigma-5 series is its positioning accuracy of up to 10 nm with standard products, while offering shortest positioning times. In addition, the well known autotuning function

YASKAWA Sigma-5 Features

Highest performance for maximum efficiency

- optimised servo motors
- high resolution serial encoders
- servo amplifiers with ASICs (Application Specific Integrated Circuit)
- new intelligent algorithms
- precise and fast positioning
- vibrationless motion
- smooth running at lowest speed
- highest quality
- no manual adjustment required

User-friendly software for fast and easy set-up

- set-up software "SigmaWin+"
- no expert know-how is necessary to achieve optimum setting results
- optimized autotuning function
- automatic filter function to suppress vibrations



YASKAWA

YASKAWA Servos

was optimised for the most sophisticated applications. Example: The new autotuning algorithm allows for the perfect set-up of a servo axis in a high dynamic performance machine in less than two hours – compared to more than eight hours needed by other solutions currently available in the market.

In short, Sigma-5 offers precise positioning at highest speed, smooth, vibration-free operation and easiest start up. For machine builders this means:

- Shortest cycle time highest throughput
- Better product quality
- Less machine wear
- Shortest initial set-up time
- Iowest lifecycle cost
- automatic adjustment of the servo amplifiers to a wide range of inertia ratios
- free download of the servo motor selection
- program "SigmaSize+"

Versatile communication with machine controllers

- embedded open fieldbus system MECHATROLINK-II
- via several open and ethernet based fieldbus systems

Compact and efficient:

new design with many benefits

- re-designed servo motors
- number of parts was reduced by about 30%
- increased vibration resistance by 100% to 5G
- powerlosses down by 30%
- advanced winding technologies
- high performance magnets

Suitable for many applications

The major benefits of Sigma-5, such as precise and fast positioning, highest machine speed, vibrationless motion, smooth running at lowest speed, make Sigma-5 ideal for machines in the fields of electronics, semiconductors, packaging, printing and machine tools. The new Sigma-5 generation will also be a perfect match for the injection molding and metal forming industries, where high throughput and point-to-point positioning are decisive factors.

A Passion for Quality

Since the company was founded, YASKAWA has been aiming at total quality. And while continuous improvement of the manufacturing process certainly is an important aspect of quality, the concept of total quality comprises more: The quest for quality needs to be an integral part of the construction process. Quality cannot be added on afterwards by adopting special production processes. Every day, more than 6 million servo drives worldwide are running and a proof of the high quality and reliability of YASKAWA products.











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The Sigma-5 delivers the highest performance in the industry.

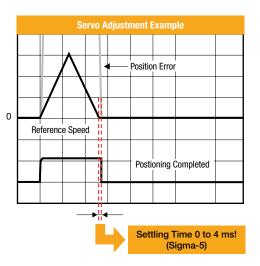
Superlative Performance

Operate your machinery faster and with higher precision than ever!

The best amplifier response in the industry slashes settling time

In-house comparison: 1/12th





Enhanced vibration suppression

Existing functions to minimize vibration have been enhanced, and new ones added, improving tracking and further improving settling time. Vibration and noise during driving have also been cut, along with vibration at machine edges when stopping.

Contributing to machine performance in conjunction with a medium-inertia motor

Small Capacity



Low Heating

SGMJV Series

Improved motor constants have reduced both losses and heating.

Better Tact Time

Peak torque has been boosted from 300% to 350%, contributing to shorter tact times

Ease of Use

Moment of inertia has been doubled in the same motor, reducing the load inertia ratio and boosting gain for faster settling

Medium Capacity



Compact Design

Smaller package and about 20% lighter, but with the same inertia as the conventional model. A small encoder connector is applied.

Improved Vibration Resistance

New coupling delivers typical 5G vibration resistance

ENCODER RESOLUTION 48,576 PULSES REVOLUTION

YASKAWA SIGMA-5 SERIES

Outstanding Expandability

Use servos that really fit into your system

Option

Module

THE FIRST

THE INDUSTRY IN JAPAN! (AS OF APRIL 2007) -----

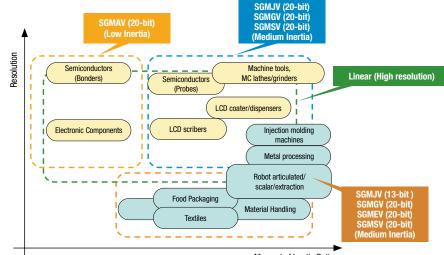
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A rich selection of models and options to match your requirements

Extensive variety of motors to match any machine

Medium-inertia servo motors <a>> Improved control stability Low-inertia servo motors > High-speed acceleration and deceleration

- Selection of servo actuators Support for direct drive servo motors, linear servo motors and linear sliders
- Standard support for analog voltage/pulse train reference series or **MECHATROLINK-communications reference series**
- Wide selection of option modules for various communication interfaces and feedback
- Compliant with applicable safety standards Easy compliance with machine safety standards
- Motor line-up to handle a wide range of markets and applications



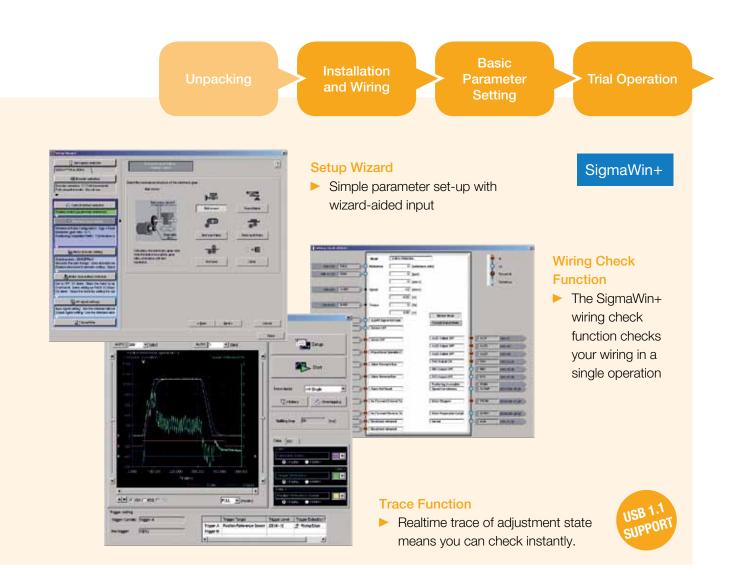
Moment of Inertia Ratio



Simple Start-up

Making servo adjustment

Let the Sigma-5 series simplify your life!



Full of handy functions for start-up and more effective operation!

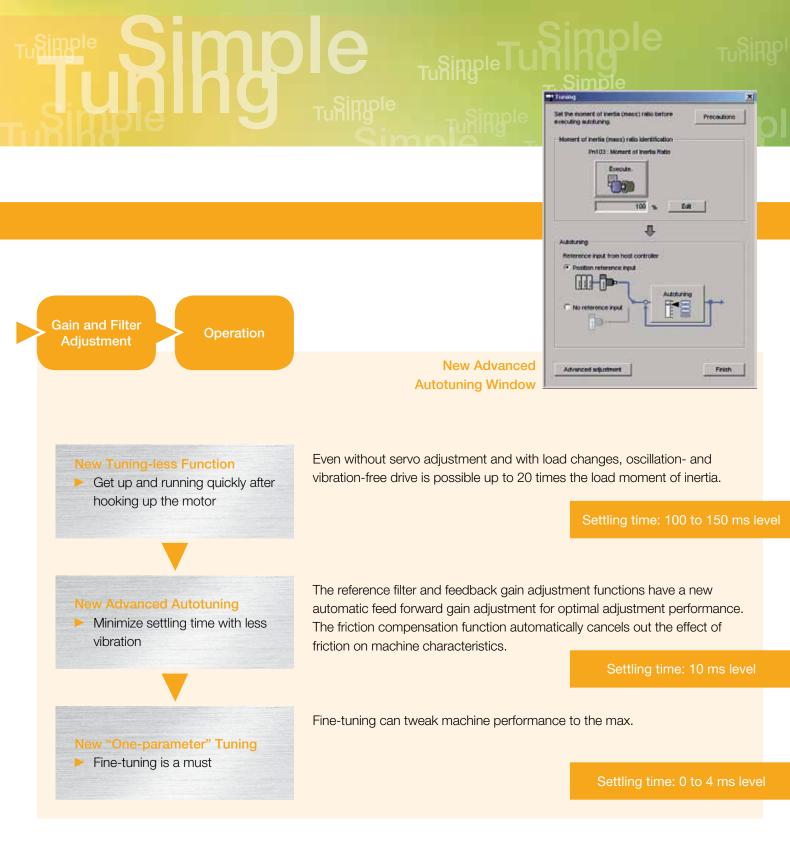
Servo motor capacity selection softwar	е
SigmaJunmaSize+	

Selection

Optimal selection for your application:
 With consideration of moment of inertia, DB resistance, etc.



Free download at the YASKAWA Software Download Portal: http://www.yaskawa.eu.com/index.php?id=899



Maintenance

PC tool
SigmaWin+

Faster Troubleshooting

Alarm diagnostic function:

Presumes possible causes of the alarm and immediately displays suggested corrective actions.



Free download at the YASKAWA Software Download Portal: http://www.yaskawa.eu.com/index.php?id=899

∑-V SERIES

Σ-V SERIES

V SERIES Σ-V SERIES

Standard Motors

Rotary Servomotors

			Rated	Instantaneous	Rated	Max. Speed	SERVOPACK Mode	I SGDV- 🗆 🗆 🗆
Rotary Servor	notor Model	Capacity	Torque [Nm]	Peak Torque [Nm]	Speed [min ⁻¹]	[min ⁻¹]	Three-phase 200 VAC	Three-phase 400 VAC
SGMJV (Medium Inertia,	SGMJV-A5A	50 W	0.159	0.557			R70A	
Small Capacity)	SGMJV-01A	100 W	0.318	1.11			R90A	
6000 min ⁻¹	SGMJV-02A	200 W	0.637	2.23	3000	6000	1R6A	-
	SGMJV-04A	400 W	1.27	4.46			2R8A	
3	SGMJV-08A	750 W	2.39	8.36			5R5A	
SGMAV	SGMAV-A5A	50 W	0.159	0.477			R70A	
(Low Inertia, Small Capacity)	SGMAV-01A	100 W	0.318	0.955			R90A	
6000 min ⁻¹	SGMAV-C2A	150 W	0.477	1.43			1004	
	SGMAV-02A	200 W	0.637	1.91	3000	6000	1R6A	
	SGMAV-04A	400 W	1.27	3.82			2R8A	-
Se y	SGMAV-06A	550 W	1.75	5.25			5R5A	
	SGMAV-08A	750 W	2.39	7.16				
	SGMAV-10A	1 kW	3.18	9.55			120A*1	
SGMEV (Low and Medium	SGMEV-01A	100 W	0.318	0.955			R90A	
Inertia,	SGMEV-02A	200 W	0.637	1.91			1R6A	
Small Capacity, optional IP67)	SGMEV-04A	400 W	1.27	3.82			2R8A	-
5000 min ⁻¹	SGMEV-08A	750 W	2.39	7.16			5R5A	
	SGMEV-15A	1500 W	4.77	14.3			120A*1	
	SGMEV-02D	200 W	0.637	0.191	3000	5000		1R9D
	SGMEV-03D*2	300 W	0.955	3.82				1R9D
	SGMEV-04D	400 W	1.27	3.82				1R9D
9	SGMEV-07D*2	650 W	2.07	7.16			-	3R5D
	SGMEV-08D	750 W	2.39	7.16				3R5D
	SGMEV-15D	1500 W	4.77	14.3				5R4D

*1: Single-phase 200 VAC SERVOPACKs are also available (base-mounted SERVOPACK model: SGDV-120A 🗆 A008000), rack-mounted SERVOPACK model: SGDV-120A 🗆 A009000).

*2: Different motor length for SGMEV-03D and SGMEV-07D.



Standard Motors

			Rated	Instantaneous	Rated	Max. Speed	SERVOPACK Model SGDV-	
Rotary Servo	motor Model	Capacity	Torque [Nm]	Peak Torque [Nm]	Speed [min ⁻¹]	[min ⁻¹]	Three-phase 200 VAC	Three-phase 400 VAC
SGMGV (Medium Inertia,	SGMGV-03D	300 W	1.96 5.88	1R9D				
Medium Capacity)	SGMGV-05D	450 W	2.86	8.92				עפחו
3000 min ⁻¹	SGMGV-09D	850 W	5.39	13.8				3R5D
	SGMGV-13D	1.3 kW	8.34	23.3				5R4D
	SGMGV-20D	1.8 kW	11.5	28.7		3000		8R4D
27	SGMGV-30D	2.9 kW	18.6	45.1	1500		-	120D
	SGMGV-44D	4.4 kW	28.4	71.1				170D
	SGMGV-55D	5.5 kW	35.0	87.6				210D
	SGMGV-75D	7.5 kW	48.0	119			260D	
	SGMGV-1AD	11 kW	70.0	175		2000		280D
	SGMGV-1ED	15 kW	95.4	224		2000		370D
SGMSV	SGMSV-10D	1.0 kW	3.18	9.54		6000		3R5D
(Low Inertia, Medium Capacity)	SGMSV-15D	1.5 kW	4.9	14.7				5R4D
6000 min ⁻¹	SGMSV-20D	2.0 kW	6.36	19.1				8R4D
	SGMSV-25D	2.5 kW	7.96	23.9	3000	5000	-	1200
	SGMSV-30D	3.0 kW	9.8	29.4		5000		120D
I Co	SGMSV-40D	4.0 kW	12.6	37.8				
	SGMSV-50D	5.0 kW	15.8	47.6				170D



∑-V SERIES

Σ-V SERIES

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Direct Drives

Linear Servomotors

		Rated Force	Peak Force	Peak Speed	SERVOPACK Mode	el SGDV- 🗆 🗆 🗆	
Linear Serve	omotor Model	[N]	[N]	[m/s]	Three-phase 200 VAC	Three-phase 400 VAC	
SGLGW	SGLGW-30A050C	12.5	40		R70A		
(Coreless Type, With standard-force magnetic ways)	SGLGW-30A080C	25	80		Dool		
	SGLGW-40A140C	47	140	5.0	R90A		
	SGLGW-40A253C	93	280	_	1004		
	SGLGW-60A140C	70	220		1R6A		
	SGLGW-40A365C	140	420		0004	-	
	SGLGW-60A253C	140	440	4.8	2R8A		
	SGLGW-60A365C	210	660	_	5R5A		
	SGLGW-90A200C	325	1300		120A		
	SGLGW-90A370C	550	2200	4.0	180A		
	SGLGW-90A535C	750	3000	-	200A		
SGLGW	SGLGW-40A140C	57	230		1004		
(Coreless Type, With high-force	SGLGW-60A140C	85	360		1R6A		
magnetic ways)	SGLGW-40A253C	114	460	4.2	2R8A		
	SGLGW-40A365C	171	690		0004	-	
Lauren and	SGLGW-60A253C	170	720		3R8A		
Calence -	SGLGW-60A365C	255	1080		7R6A		
SGLFW	SGLFW-20A090A	25	86		1R6A		
(With F-type Iron Core)	SGLFW-20A120A	40	125	_			
	SGLFW-35A120A	80	220				
	SGLFW-35A230A	160	440	5.0	3R8A		
	SGLFW-50A200B	280	600	-	5R5A	-	
~	SGLFW-50A380B	560	1200		1001		
	SGLFW-1ZA200B	560	1200	4.0	120A		
	SGLFW-1ZA380B	1120	2400	4.9	200A		
	SGLFW-35D120A	80	220	4.5		1000	
	SGLFW-35D230A	160	440	4.5		1R9D	
	SGLFW-50D200B	280	600			3R5D	
	SGLFW-50D380B	560	1200			CD 4D	
	SGLFW-1ZD200B	560	1200	5.0	-	5R4D	
	SGLFW-1ZD380B	1120	2400				
	SGLFW-1ED380B	1500	3600	0.0		120D	
	SGLFW-1ED560B	2250	5400	2,3			

YASKAWA SIGMA-5 SERIES



Direct Drives

		Rated Force	Peak Force	Peak Speed	SERVOPACK Mod	el SGDV- 🗆 🗆 🗆
Linear Servo	omotor Model	[N] [N]		[m/s]	Three-phase 200 VAC	Three-phase 400 VAC
SGLTW	SGLTW-20A170A	130	380	5.0	3R8A	
(With T-type Iron Core)	SGLTW-35A170A	220	660	5.0		
	SGLTW-35A170H	300	600	4.8	5R5A	
1.1.	SGLTW-50A170H	450	900	3.2		
	SGLTW-20A320A	250	760		7R6A	
Prive	SGLTW-20A460A	380	1140	5.0		
	SGLTW-35A320A	440	1320		120A	
	SGLTW-35A320H	600	1200	4.8	TZUA	-
	SGLTW-50A320H	900	1800	3.1		
	SGLTW-35A460A	670	2000	5.0	180A	
	SGLTW-40A400B	670	2600	3.1	TOUA	
	SGLTW-40A600B	1000	4000	3.1	330A	
	SGLTW-80A400B	1300	5000	0.5	330A	
	SGLTW-80A600B	2000	7500	2.5	550A	
	SGLTW-35D170H	300	600	5.0		3R5D
	SGLTW-50D170H	450	900	4.0		JUCHO
	SGLTW-35D320H	600	1200	5.0		8R4D
	SGLTW-50D320H	900	1800	4.0		0K4D
	SGLTW-40D400B	670	2600		-	120D
	SGLTW-40D600B	1000	4000	3.1		170D
	SGLTW-80D400B	1300	5000	3.1		1700
	SGLTW-80D600B	2000	7500			260D

Cylinder Type Servomotors (Sigma-Stick)

Lincor Conv	motor Model	Rated Force	Peak Force	Peak Speed	SERVOPACK Model SGDV-
	omotor Model	[N]	[N]	[m/s]	Three-phase 200 VAC
SGLC	SGLC-D16A085A	17	60		R70A
1	SGLC-D16A115A	25	90		R70A
	SGLC-D16A145A	34	120		R90A
	SGLC-D20A100A	30	150		1R6A
	SGLC-D20A135A	45	225		IROA
	SGLC-D20A170A	60	300	10	2R8A
11	SGLC-D25A125A	70	280	4.0	1R6A
	SGLC-D25A170A	105	420		0004
	SGLC-D32A165A	90	420		2R8A
	SGLC-D25A215A	140	560		
	SGLC-D32A225A	135	630		5R5A
	SGLC-D32A285A	180	840		

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Direct Drives

Linear Slider (Sigma-Trac)

Linear Slider	Linear Slider Model		Peak Force [N]	SERVOPACK Model SGDV-
SGTMM (Sigma-Trac-µ)	SGTMM01	3.5	10	R70A
the second secon	SGTMM03	7	25	R90A
SGTMF (Sigma-Trac-MAG)	SGTMF4A	90	270	1064
	SGTMF4B	120	360	1R6A
	SGTMF5A	150	540	5R5A
	SGTMF5B	200	720	JNJA

Linear Slider (SGT)

Linear Slide	r Model	Rated Force	Peak Force	SERVOPACK Mode	I SGDV- 🗆 🗆 🗆
Туре	Model*1	[N]	[N]	Single-phase 200 VAC	Three-phase 400 VAC
SGT- 🗆 -	SGT-F35A120 🗆	80	220	SGDV-1R6A □5A	
Linear Slider	SGT-F35A230 🗆	160	440	SGDV-3R8A □5A	
	SGT-F50A200 🗆	280	600	SGDV-5A5A 🗆 5A	-
	SGT-F50A380 🗆	560	1200	SGDV-5A5A 🗆 5A	
	SGT-F1ZA200 🗆	500	1200	SGDV-120A 5A*2	
100	SGT-F35D120 🗆	80	220		SGDV-1R9D □5A
	SGT-F35D230 🗆	160	440		SGDV-1R9D □5A
	SGT-F50D200 🗆	280	600		SGDV-3R5D □5A
	SGT-F50D380 🗆	560	1200	_	SGDV-5R4D □5A
	SGT-F1ZD200 🗆	560	1200		SGDV-5R4D □5A
	SGT-F1ZD380 🗆	1120	2400		SGDV-120D

 *1 Manufactured by YASKAWA Engineering Europe GmbH. *2 Single-phase 200 VAC, 1.5 kW, SGDV-120A \square 1A008000

Direct Drive Servomotors

Direct Drive Co	Direct Drive Servomotor Model		Peak Torque	Rated	Max. Speed	SERVOPACK Model SGDV-	
Direct Drive Se	rvomotor Model	Torque [Nm]	[Nm]	Speed [min ⁻¹]	[min ⁻¹]	Three-phase 200 VAC	
SGMCS	SGMCS-02B	5	6				
(Small-capacity)	SGMCS-05B	7	15		500		
(SGMCS-07B	4	21		500		
Carine 1	SGMCS-04C	10	12	000			
	SGMCS-10C	14	30	200	400	2R8A	
	SGMCS-14C	8	42		300	1	
	SGMCS-08D	17	24		500		
	SGMCS-17D	25	51		350		
	SGMCS-25D	16	75	150	250		
	SGMCS-16E	35	48	200	500	EDE A	
	SGMCS-35E	45	105	150	250	5R5A	
SGMCS	SGMCS-45M	80	135			7R6A	
(Medium-capacity)	SGMCS-80M	80	240			120A	
(SGMCS-80N	110	240	150	300	IZUA	
	SGMCS-1AM	150	330	130	300	180A	
	SGMCS-1EN	200	450			200A	
	SGMCS-2ZN	15.8	600			2004	



Specifications

SERVOPACK specifications

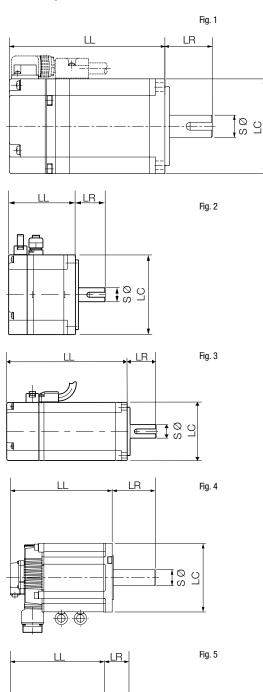
Position		Specifications					
Performance		Speed frequency response: 1.6 kHz (load condition: Load moment of inertia $J_{L} = Motor$ moment of inertia J_{M}) Torque control tolerance (repeatability): +/- 1%					
	Position Control	Reference pulse type: Sign + pulse train, 90° phase difference 2-phase pulse (phase A + phase B), or CCW + CW pulse train Form: Non-insulated line driver (+5 V level), open collector					
Analog Voltage/ Pulse Train	Speed Control	+/- 6 VDC (variable setting range: +/- 2 to 10 VDC) at rated speed, max. input voltage: +/- 12 V)					
Reference Type	Torque Control	+/- 3 VDC (variable setting range: +/- 1 to 10 VDC) at rated torque, max. input voltage: +/- 12 V)					
	Built-in Panel Operator	Status display, parameter settings, adjustment functions*1, utility functions*2 by using the 7-segment 5-digit LED (red) and push switch (4 channels)					
	Performance	Position control, speed control, and torque control through MECHATROLINK communications					
MECHATROLINK-II Communications Reference Type	Command Input	MECHATROLINK commands and MECHATROLINK-II commands (for sequence, motion, data setting/reference, monitor, adjustment, and other commands)					
	Display and Switch	7-segment 1-digit LED (red), one rotary switch (for station address setting), and four dip switches (for communications specifications setting)					
Communications	Туре	RS-422A communications: Hand-held digital operator, RS-422A port of personal computers, etc. USB communications: Compliant with USB1.1 standard, personal computers can be connected with SigmaWin+					
	Functions	Status display, parameter settings, adjustment functions*1, utility functions*2					
Feedback		Serial encoder: 20-bit (incremental/absolute encoder). Serial encoder: 13-bit (incremental encoder only for SGMJV servomotors)					
	Number of Channels	7 channels. The signal allocation and positive/negative logic can be modified.					
Input Signals	Functions	Servo On, proportional control, alarm reset, forward run prohibited, reverse run prohibited, forward torque limit, reverse torque limit, internal set speed selection, control selection, zero clamping, reference pulse inhibit, gain selection, homing deceleration switch signal, external latch signal					
	Number of Channels	3 channels. The signal allocation and positive/negative logic can be modified.					
Output Signals	Functions	Positioning completion, speed coincidence detection, servomotor rotation detection, servo ready, torque limit detection, speed limit detection, brake, warning, near					
Encoder Output Puls	ies	Phase A, phase B, phase C: line driver output. The number of dividing pulse: Any setting ratio is available.					
Other I/O Signals		Alarm output, alarm code output (3-bit, open collector output)					
Analog Monitor		Analog monitor connector built in for monitoring speed, torque and other reference signals. Number of points: 2					
Protective Functions	;	Overcurrent, overvoltage, low voltage, overload, regeneration error, etc.					
Option Card Functio	ns	Advanced safety functions (Stop category 1, 2, Safely-limited speed), serial encoder communications input for fully-closed loop control, various fieldbus interfaces					
Compliant Standard	s	UL standards, CE marking (EMC directive, low voltage directive), harmonics suppression, RoHS, safety function					
Safety Functions		EN 954 category 3 Stop category 0, IEC 61508 SIL 2 Input: Power module base block signal. Output: Safety circuit status monitor					
Configuration		Base-mounted (Rack mounting and duct mounting available as an option for some models.)					
Option	Network	EtherCAT, CANopen, Powerlink, PROFINET					
ομασιι	Motion Control	Indexer, MP2600iec					

 *1 : New tuning-less function, advanced autotuning or one-parameter tuning, etc. *2 : Alarm traceback data display, JOG operation, origin search, etc.

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Dimensions

Dimensional drawings (units: mm) - Rotary servomotor



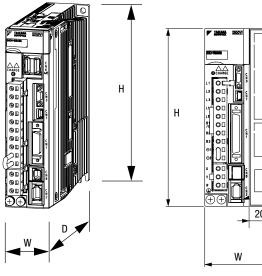
Input Voltage	Servomotor Model	Capacity	Figure		ш	LR	S Dia.	Approx. Mass kg
	SGMJV-A5	50 W		40	69	25	8	0.3
	SGMJV-01	100 W		40	82.5	23	0	0.4
200 VAC	SGMJV-02	200 W	1	60	80	30	14	0.9
	SGMJV-04	400 W		00	98.5	30	14	1.3
	SGMJV-08	750 W		80	115	40	19	2.7
	SGMAV-A5	50 W			70.5			0.3
	SGMAV-01	100 W		40	82.5	25	8	0.4
	SGMAV-C2	150 W			94.5			0.5
200 VAC	SGMAV-02	200 W	1		80			0.9
200 VA0	SGMAV-04	400 W	1	60	98.5	30	14	1.2
	SGMAV-06	550 W			124.5			1.7
	SGMAV-08	750 W		00	115	40	10	2.6
	SGMAV-10	1.0 kW	_	80	145	40	19	3.6
200 VAC	SGMEV-01	100 W		60	62	25	8	0.7
	SGMEV-02	200 W	2	90	67	30	14	1.4
200 VAC,	SGMEV-04	400 W		80	87	30	14	2.1
400 VAC	SGMEV-08	750 W		120	86.5	40	16	4.2
	SGMEV-15	1.5 kW			114.5	40	19	6.6
400 VAC	SGMEV-03	300 W	- 3	60	124.5	30	14	1.7
400 VAC	SGMEV-07	650 W		80	145	40	16	3.4
	SGMGV-03	300 W		00	126	37	14	2.6
	SGMGV-05	450 W		90	139	40	16	3.2
	SGMGV-09	850 W			137		19	5.5
	SGMGV-13	1.3 kW		130	153	58	22	7.1
	SGMGV-20	1.8 kW			171		24	8.6
400 VAC	SGMGV-30	2.9 kW	4		160	79	25	13.5
	SGMGV-44	4.4 kW		100	184	79	35	17.5
	SGMGV-55	5.5 kW		180	221	112		21.5
	SGMGV-75	7.5 kW			267	113	42	29.5
	SGMGV-1A	11 kW		000	331	110		57
	SGMGV-1E	15 kW		220	393	116	55	67
	SGMSV-10	1.0 kW			147			4.1
	SGMSV-15	1.5 kW		100	157	45	04	4.6
	SGMSV-20	2.0 kW		100	173	45	24	5.4
400 VAC	SGMSV-25	2.5 kW	5		100			6.8
	SGMSV-30	3.0 kW			196			10.5
	SGMSV-40	4.0 kW		130	233	63	28	13.5
	SGMSV-50	5.0 kW			273			16.5

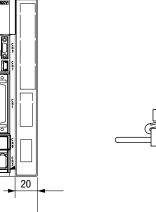
Note: External dimensions of direct-drive servomotors, linear servomotors, and linear sliders are shown in specific YASKAWA Europe product publications.

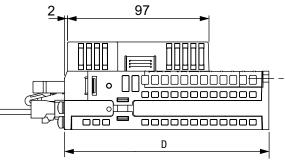


Dimensions

- SERVOPACK
- SERVOPACK with Option Module Command Option Attachable Type







Input Voltage	SERVOPACK Model SGDV-	w	н	D	Approx. Mass kg	SERVOPACK Command Option Attachable Type			
								D	Approx. Mass kg
Three-phase 200 VAC	R70A R90A 1R6A	40	160	140	0.9	60 60	160	140	1.0
	2R8A				1.0			170	1.1
	3R8A 5R5A 7R6A	70	160	170	1.5	90	160 180	180	1.6
	120A	90		180	2.4	110			2.5
	180A 200A	100	180 250		2.8	120			2.9
	330A	110			4.6	130	250 350	210	4.7
	470A 550A	170	350	210	10.2	190			10.3
	590A 780A	260	450		21	280	450	275	21.1
Three-phase 400 VAC	1R9D 3R5D 5R4D	110 135	160	275	2.7	130	160	180	2.8
	8R4D 120D		250	180	3.7	155	250		3.8
	170D				5.6			230	5.7
	210D 260D	230	350	230	11.3	250	350	210	11.4
	280D 370D		400	210	16.2	250	400	250	16.3



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The Sigma-5 Series is CE-certified, cULus-listed and RoHS-conform.



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