

# POWERFUL

Strongest  $\Sigma$ -V line-up ever! Newest  $\Sigma$ -V servo drives increase speeds & improve performance with cleaner, lighter, & more compact equipment. Easy to use & easy to set up with  $\Sigma$ -V high standard of excellence!

## SMART

Separated converter

Supports newest  $\Sigma$ -V functions and optional modules

Compatible with
Compatible with
a wide variety of
a wide variety of
reference interfaces\*
\*: Will be released in succession.
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20-bit serial encoder

30% smaller than  $\Sigma$ - $\parallel$  amplifiers

**AC Servo Drives** 

## Large-Capacity 2-V



400 V (22 to 55 kW)

Servomotor: SGMVV

SERVOPACK: SGDV/Converter: SGDV-COA



- Solar battery manufacturing equipment
- Metal processing machines (presses, bending machines, spring manufacturing machines, rotary cutters)
- ●Engine testing equipment ●Assembly equipment ●Injection molding machines ●Hydraulic equipment

### Specifications

#### Servomotors

Time Rating: Continuous

Vibration Class: V15 Ambient Temperature: 0 to 40°C Excitation: Permanent magnet Mounting: Flange-mounted (standard) Foot-mounted (semi-standard) Thermal Class: F

Enclosure: Totally enclosed, cooled separately, IP44 Ambient Humidity: 20% to 80% (no condensation)

#### ▶1500 min<sup>-1</sup> ▶800 min<sup>-1</sup>

Model S	GMVV-	2BD∷B	3ZD B	3GD∷B	4ED_B	5ED∷B	Model S	GMVV-	2BD D	3ZD D	3GD D	4EDD
Rated Output	kW	22	30	37	45	55	Rated Output	kW	22	30	37	45
Rated Torque	N·m	140	191	236	286	350	Rated Torque	N·m	262	358	442	537
Stall Torque	N·m	140	191	236	286	350	Stall Torque	N·m	262	358	442	537
Instantaneous Peak Torque	N·m	350	478	589	715	875	Instantaneous Peak Torque	N·m	526	752	930	1182
Rated Speed	min-1	1500			Rated Speed	min-1	800					
Max. Speed	min-1	2000			Max. Speed	min-1	1300					

#### ● SFRVOPACKs

	U DELIVOPACIOS							
	Model SGDV-		750J	101J	131J			
	Applicat	ole Servomotor	30	37	55			
	Max. Ca	pacity kW	30	37				
	Power	Main Circuit	520 to 650 VDC					
	Supply	Control Circuit	24 VDC±15%					
	Mount	ting Method	Base-mounted					
	Feedb	ack	20-bit serial encoder (incremental/absolute)					
	Interfa	ıce	Analog voltage/pulse train reference, MECHATROLINK-II / III * communications reference, command option attachable type*					
DB (Dynamic Brake)			External DB contactor and DB resistor are required.					

#### Converters

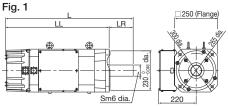
Model	SGDV-COA	3ZD	5ED		
Applicab	le SERVOPACK	30	55		
Max. Ca	pacity kW	30			
Power	Main Circuit	Three-phase 380 to 480 VAC, 50/60 Hz			
Supply	Control Circuit	24 VDC±15%			
Mount	ting Method	Base-mounted			
Regeneration		Built-in regeneration circuit.			
negei	leration	External regenerative resistor is required.			

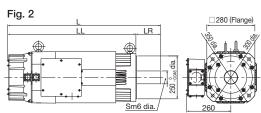
#### Combinations

Servomotors	2BD	3ZD	3GD	4ED	5ED			
SGMVV-	22 kW	30 kW	37 kW	45 kW	55 kW			
SERVOPACKs SGDV-	750J		101J	131J				
Converters SGDV-COA	32	ŹD	5ED					

## External Dimensions Units: mm Note: Contact Yaskawa for dimensional drawings of foot-mounted models.

#### Servomotors

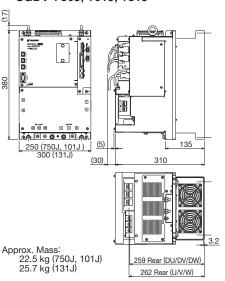




	Model SGMVV-	Fig.	L	LL	LR	S	Approx. Mass kg
	2BD∭B	1	658	518	140	60	95
	3ZD∭B	1	704	564	140	60	110
	3GD∭B	1	744	604	140	65	120
	2BD∭D	1	794	654	140	65	135
	4ED∭B	2	797	652	145	75	165
	5ED∭B	2	842	697	145	75	185
-	3ZD∭D	2	842	697	145	75	185
	3GD∭D	2	892	747	145	75	205
	4ED∭D	2	973	798	175	85	225

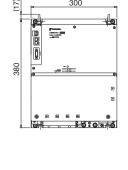
### SERVOPACKs

SGDV-750J, 101J, 131J

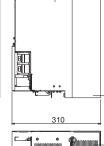


#### Converters SGDV-COA3ZD

8 (4)

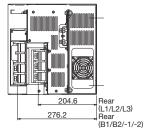


SGDV-COA5ED



(L1/L2/L3/B1/B2) Rear (-1/-2)

Approx. Mass: 20.5 kg Approx. Mass: 32.8 kg



Note: SGDV-131J SERVOPACK appearance differs from these dimensional drawings. Contact Yaskawa for more details.

## YASKAWA

YASKAWA ELECTRIC CORPORATION

http://www.yaskawa.co.jp/en/

In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply. Specifications are subject to change without notice

<sup>\*:</sup> Will be released in succession.