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Analog Voltage/Pulse Train Reference Type SERVOPACKs

SGDV-□□□□01

(For Rotary Servomotors)

SGDV-□□□□05

(For Linear Servomotors)



Model Designations

SGDV - R70 A 01 A □

Σ-V Series
SGDV SERVOPACK

Current

Voltage

Interface

Design Revision Order
A, B…

Options

Code	Specifications
Blank	Base-mounted (standard)
001000	Rack-mounted*

*: SGDV-470A, -550A, -590A, -780A SERVOPACKs are duct-ventilated.

Code	Specifications
F	100 VAC
A	200 VAC
D	400 VAC

Code	Specifications
01	Analog voltage/pulse train reference type (for rotary servomotors)
05	Analog voltage/pulse train reference type (for linear servomotors)

Code	100 V (Single Phase)	Code	200 V (Three Phase)	Code	400 V (Three Phase)
	Applicable Servomotor Max. Capacity kW		Applicable Servomotor Max. Capacity kW		Applicable Servomotor Max. Capacity kW
R70	0.05	R70*	0.05	1R9	0.5
R90	0.1	R90*	0.1	3R5	1.0
2R1	0.2	1R6*	0.2	5R4	1.5
2R8	0.4	2R8*	0.4	8R4	2.0
		3R8	0.5	120	3.0
		5R5*	0.75	170	5.0
		7R6	1.0	210	6.0
		120♣	1.5	260	7.5
		180	2.0	280	11
		200	3.0	370	15
		330	5.0		
		470	6.0		
		550	7.5		
		590	11		
		780	15		

NOTE: Shaded items are non-stock.

* These amplifiers can be powered with single or three-phase.

♣ SGDV-120A□□A008000, a special version of the 1.5kW amplifier can be used for single-phase operation.

Features

- Unprecedented ease-of-use through cutting-edge technology
  - New tuning-less function means no adjustment needed.
  - Impressive load regulation with strengthened vibration suppression function.
- Slashed setup time
  - Setup wizard function and wiring conformation function of engineering tool SigmaWin+ allows easy setup just by watching the monitor.
- High response characteristics at 1 kHz min.
  - New advanced autotuning.
  - Reduced positioning time through model following control, and smooth machine control enabled by vibration suppression function.

Ratings

Single-phase 100 V

SERVOPACK Model SGDV-□□□□		R70F	R90F	2R1F	2R8F
Applicable Servomotor Max. Capacity	kW	0.05	0.1	0.2	0.4
Continuous Output Current	A_{rms}	0.66	0.91	2.1	2.8
Max. Output Current	A_{rms}	2.1	2.9	6.5	9.3
Main Circuit		Single-phase 100 to 115 VAC+10% to −15% 50/60 Hz			
Control Circuit		Single-phase 100 to 115 VAC+10% to −15% 50/60 Hz			

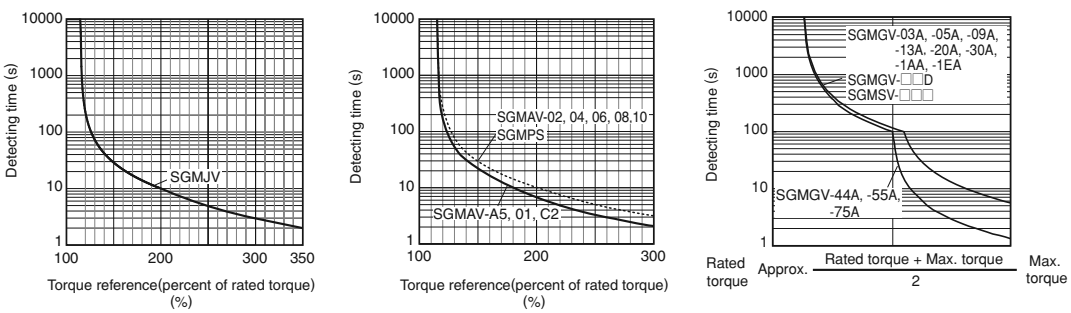
Three-phase 200 V

SERVOPACK Model SGDV-□□□□		R70A	R90A	1R6A	2R8A	3R8A	5R5A	7R6A	120A	180A	200A	330A	470A	550A	590A	780A
Applicable Servomotor Max. Capacity	kW	0.05	0.1	0.2	0.4	0.5	0.75	1.0	1.5	2.0	3.0	5.0	6	7.5	11	15
Continuous Output Current	A_{rms}	0.66	0.91	1.6	2.8	3.8	5.5	7.6	11.6	18.5	19.6	32.9	46.9	54.7	58.6	78
Max. Output Current	A_{rms}	2.1	2.9	6.5	9.3	11	16.9	17	28	42	56	84	110	130	140	170
Main Circuit		Three-phase 200 to 230 VAC+10% to −15% 50/60 Hz														
Control Circuit		Single-phase 200 to 230 VAC+10% to −15% 50/60 Hz														

Three-phase 400 V

SERVOPACK Model SGDV-□□□□		1R9D	3R5D	5R4D	8R4D	120D	170D	210D	260D	280D	370D
Applicable Servomotor Max. Capacity	kW	0.5	1.0	1.5	2.0	3.0	5.0	6	7.5	11	15
Continuous Output Current	A_{rms}	1.9	3.5	5.4	8.4	11.9	16.5	20.8	25.4	28.1	37.2
Max. Output Current	A_{rms}	5.5	8.5	14	20	28	42	55	65	70	85
Main Circuit		Three-phase 380 to 480 VAC+10% to −15% 50/60 Hz									
Control Circuit		24 VDC ±15%									

●SERVOPACK Overload Characteristics



Note: Overload characteristics shown above do not guarantee continuous duty of 100% or more output. Use a servomotor with effective torque within the continuous duty zone of Torque-Motor Speed Characteristics.

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