CG type

CG type							
Actuator Model			50	80	SHA20A 100	120	160
Item			50	80		120	160
Servo Drive			REL-230-18 HA-800□-3D/E-200				
May torque		Nm	73	96	107	113	120
		kgf∙m	7.4	9.8	10.9	11.5	12.2
Allowable		Nm	21	35	43	48	48
continuous torque*1*2		kgf∙m	2.1	3.6	4.4	4.9	4.9
Max. rotational speed*1		r/min	120	75	60	50	37.5
Torque constant*1		Nm/A	16	26	33	39	53
		kgf∙m/A	1.7	2.7	3.4	4.0	5.4
Max. current*1		Α	6.1	5.0	4.6	4.1	3.4
Allowable continuous current*1*2		Α	2.1	2.1	2.1	2.0	1.7
EMF constant*3		V/(rpm)	1.8	2.9	3.7	4.4	5.9
Phase resistance (20℃)		Ω	1.4				
Phase inductance		mH			2.5		
Inertia	GD <sup>2</sup> /4	kg·m²	0.21	0.53	0.82	1.2	2.1
moment (without	J	kgf·cm·s²	2.1	5.4	8.0	12	22
brake) Inertia	GD <sup>2</sup> /4	kg·m²	0.23	0.60	0.94	1.3	2.4
moment	GD /4	Kg-III	0.23	0.00	0.94	1.3	2.4
(with brake)	J	kgf·cm·s²	2.4	6.1	9.6	14	24
Reductio	n ratio		1:50	1:80	1:100	1:120	1:160
Permissible moment		Nm	187				
load		kgf∙m	19.1				
Moment stiffness		Nm/rad	25.2×10 <sup>4</sup>				
		kgf·m/arc min	7.5				
One-way positional accuracy		Sec	60	50	50	50	50
Repeatability		Sec			±5		
Bi-directional repeatability		Sec	75	30	30	30	30
Encoder type			Magnetic absolute encoder				
Single motor revolution Encoder resolution			2 <sup>17</sup> (131,072)				
Motor multi revolution counter		216 (65,536)					
Output resolution		Pulse/rev	6,553,600	10,485,760	13,107200	15,728,640	20,971,520
Mass		kg	2.6				
(without brake) Mass (with brake)		kg	2.7				
Environmental conditions			Operating temperature: 0 to 40°C/Storage temperature: -20 to 60°C				
			Operating humidity/storage humidity: 20 to 80%RH (no condensation) Resistance to vibration: 25 m/s² (frequency: 10 to 400Hz)/Shock resistance: 300 m/s² '4 No dust, no metal powder, no corrosive gas, no inflammable gas, no oil mist To be used indoors, no direct sunlight Altitude: less than 1,000 m above sea level				
Motor insulation			Insulation resistance: 100MΩ or more (by DC500V insulation tester) Dielectric strength: AC1,500V/1 min Insulation class: A				
Mounting direction			Can be installed in any direction				
Protection structure			,	self-cooled type	(IP54)	·	·
The table chause	typical auto	ut values of actu					

The table shows typical output values of actuators.

\*1: Typical characteristics when combined with our HA-800 driver.

\*2: Value after temperature rise and saturation when the 350 x 350 x 18 [mm] aluminum radiation plate is installed.

\*3: Value of phase induced voltage constant multiplied by 3.

\*4: For testing conditions, refer to [1-12 Shock resistance] (P49) and [1-13 Vibration resistance] (P50).