

# CFHKA SERIES PERFORMANCE

## (3-STAGE, RATIO I = 100~1000)

### Precision Planetary Gearbox



MODEL NO.		STAGE	RATIO (1)	CFHKA 240
Nominal Output Torque T(2N)	Nm	3	100	3,800
			125	3,345
			140	3,800
			175	3,345
			200	3,800
			250	3,345
			350	3,345
			500	3,345
			700	2,555
			1,000	1,650
Emergency Stop Torque T(2NOT)	Nm	3	100~1,000	2 times T(2N)
Max. Acceleration Torque T(2B)	Nm	3	100~1,000	1,5 times T(2N)
No Load Running Torque(2)	Nm	3	100~1,000	6
Backlash(3)	arcmin	3	100~1,000	≤ 2
Torsional Rigidity	Nm/arcmin	3	100~1,000	510
Nominal Input Speed n(1N)	rpm	3	100~1,000	2,100
Max. Input Speed n(1B)	rpm	3	100~1,000	4,000
Max Radial Load F(2r) (4)	N	3	100~1,000	30,000
Max. Axial Load F(2a)(4)	N	3	100~1,000	15,000
Max Tilting Moment M(2k) (4)	Nm	3	100~1,000	5,420
Service Life(5)	hr	3	100~1,000	20,000
Operating Temp	°C	3	100~1,000	-10°C~ 90°C
Degree of Gearbox Protection		3	100~1,000	IP65
Lubrication		3	100~1,000	Synthetic lubrication grease
Mounting Position		3	100~1,000	All directions
Running Noise(6)	dB(A)	3	100~1,000	≤ 72
Efficiency η	%	3	100~1,000	≤ 92%

(1) Ratio ( $i=N[in]/N[out]$ ) (2) These values are measured by gearbox with ratio 1,000 (3-stage) at 3,000 rpm with no loading. (3) Backlash is measured at 2% of Nominal Output Torque T(2N). (4) Applied to the output shaft center at 100 rpm. (5) Continuous operation is not recommended (6) These values are measured by gearbox with ratio 1,000 (3-stage) at 3,000 rpm no loading. By lower ratio and/or higher RPM, the noise level could be 3 to 5 dB higher.