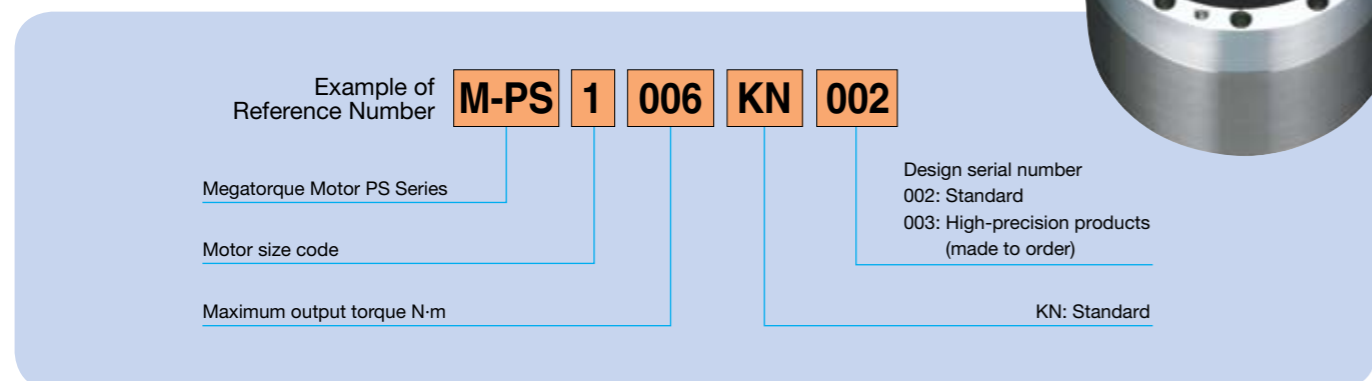


1. Motor Specifications

PS1 Motor

1.1 Motor Reference Number Coding

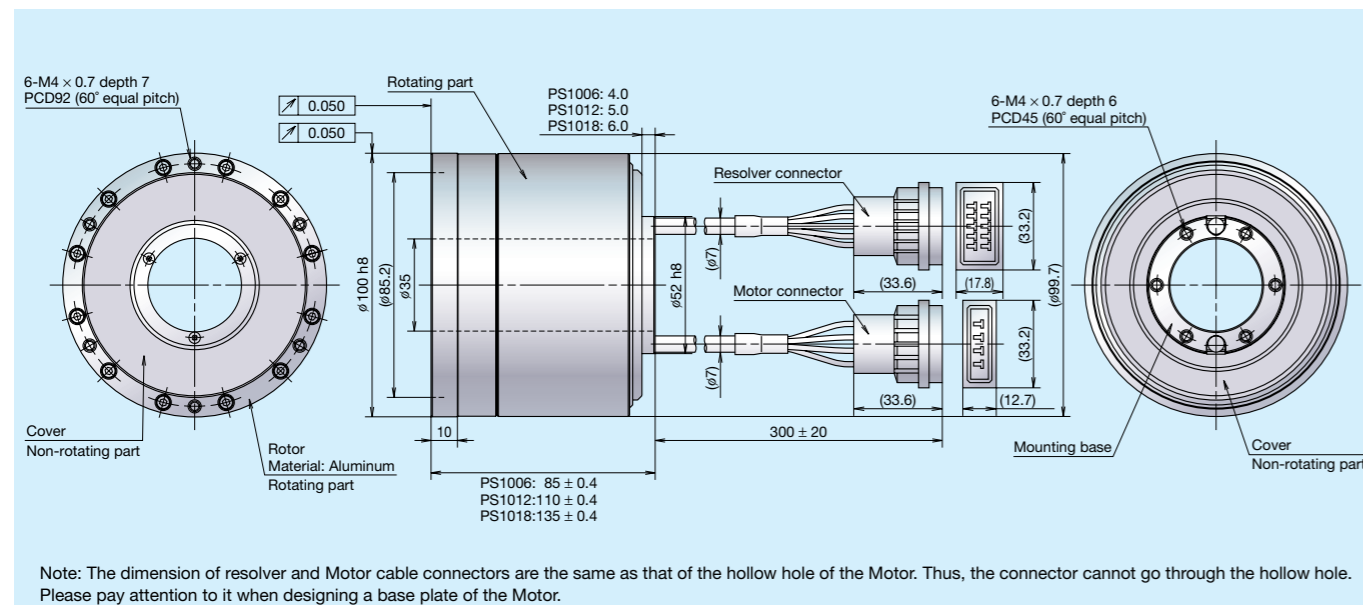


1.2 PS1 Model Specifications

Functional item	Reference number	M-PS1006KN002	M-PS1012KN002	M-PS1018KN002
Motor outer diameter mm		φ100		
Maximum output torque N·m		6	12	18
Rated output torque N·m		2	4	6
Motor height mm		85	110	135
Motor hollow diameter mm		φ35		
Maximum rotational speed s ⁻¹		10		
Rated rotational speed s ⁻¹		5		
Resolution of position sensor counts/rev		2 621 440		
Absolute positioning accuracy arc sec ^{*1}		90 (interchangeable type, ambient temperature: 25 ± 5 °C)		
Repeatability arc sec		±2		
Allowable axial load N		1 000 (under no radial load)		
Allowable radial load N		820 (under no axial load)		
Allowable moment load N·m		28		
Rotor's moment of inertia kg·m ²		0.0024	0.0031	0.0038
Recommended load's moment of inertia kg·m ²		0.015–0.24	0.03–0.31	0.03–0.38
Mass kg		2.4	3.5	4.5
Environmental conditions		Ambient temperature 0–40°C; humidity: 20–80%; use indoors, free from dust, condensation and corrosive gas. IP30 equivalent.		

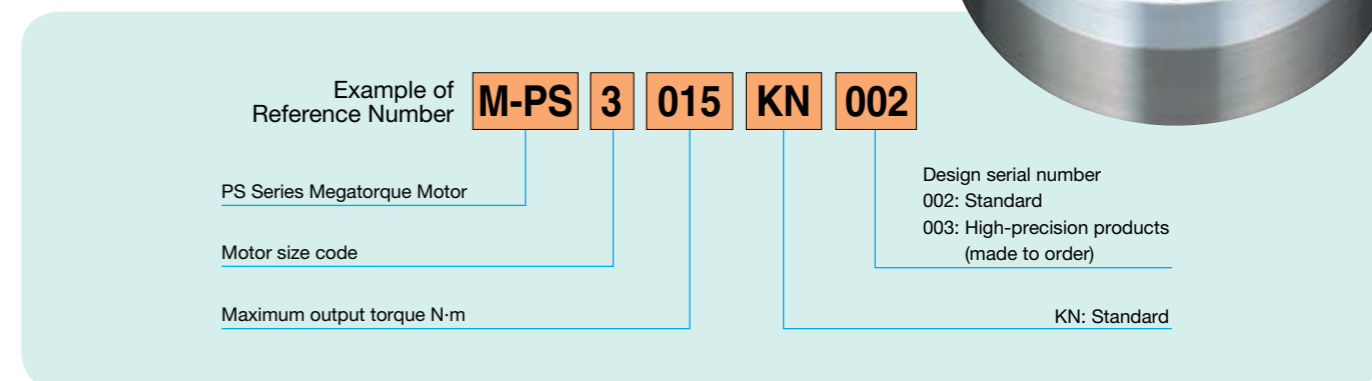
Note: Please consult with NSK in case of a simultaneous application of axial load, radial load and moment load to a Motor. For an oscillating operation less than 45°, turn the Motor 90° or more at least once a day.

*1: Absolute positioning accuracy of high-precision products (made to order) is 30 arc sec. (interchangeable type, ambient temperature of 25 ± 5 °C).



PS3 Motor

1.3 Motor Reference Number Coding



1.4 PS3 Model Specifications

Functional item	Reference number	M-PS3015KN002	M-PS3030KN002	M-PS3060KN002	M-PS3090KN002
Motor outer diameter mm		φ150			
Maximum output torque N·m		15	30	60	90
Rated output torque N·m		5	10	20	30
Motor height mm		85	102	136	170
Motor hollow diameter mm		φ56			
Maximum rotational speed s ⁻¹		10		8	5
Rated rotational speed s ⁻¹		5		1	1
Resolution of position sensor counts/rev		2 621 440			
Absolute positioning accuracy arc sec ^{*1}		90 (interchangeable type, ambient temperature: 25 ± 5 °C)			
Repeatability arc sec		±2			
Allowable axial load N		2 000 (under no radial load)			
Allowable radial load N		1 700 (under no axial load)			
Allowable moment load N·m		42			
Rotor's moment of inertia kg·m ²		0.011	0.014	0.019	0.024
Recommended load's moment of inertia kg·m ²		0–1.1	0–1.4	0.12–1.9	0.12–2.4
Mass kg		5.5	6.9	11.0	13.8
Environmental conditions		Ambient temperature 0–40°C; humidity: 20–80%; use indoors, free from dust, condensation and corrosive gas. IP30 equivalent.			

Note: Please consult with NSK in case of a simultaneous application of axial load, radial load and moment load to a Motor. For an oscillating operation less than 45°, turn the Motor 90° or more at least once a day.

*1: Absolute positioning accuracy of high-precision products (made to order) is 30 [arc sec]. (interchangeable type, ambient temperature of 25 ± 5 °C).

