

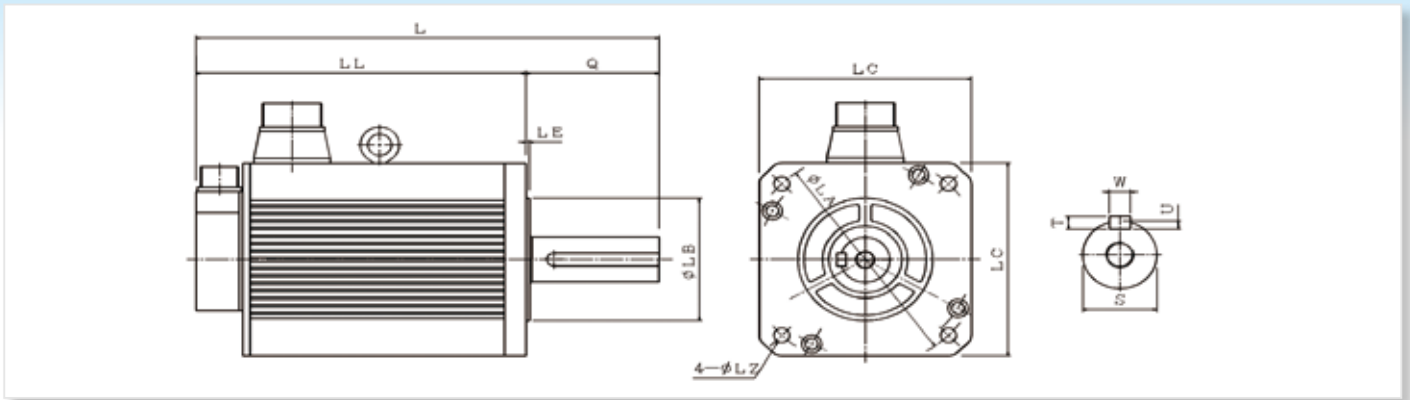
TSA 18/22 SERIES

SPECIFICATION

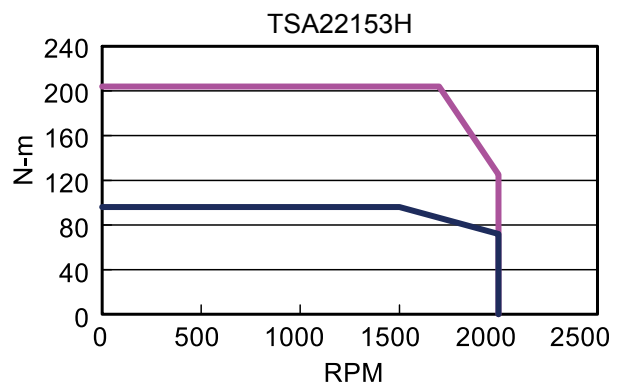
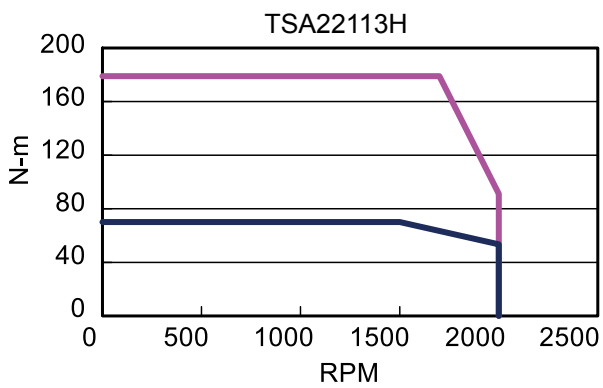
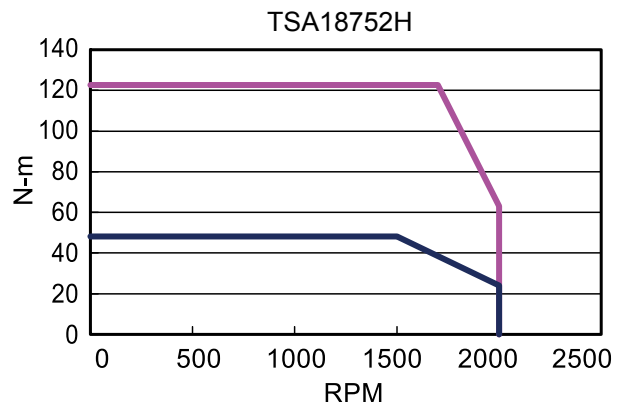
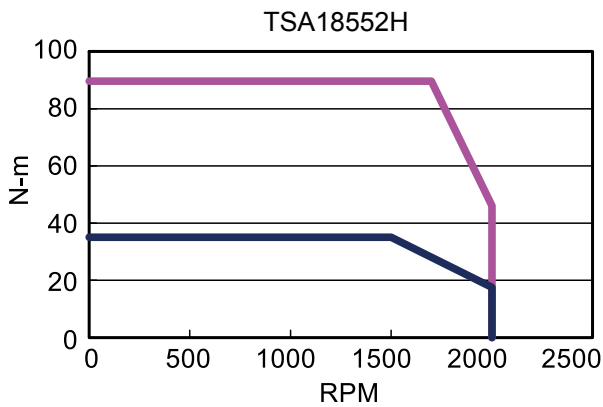
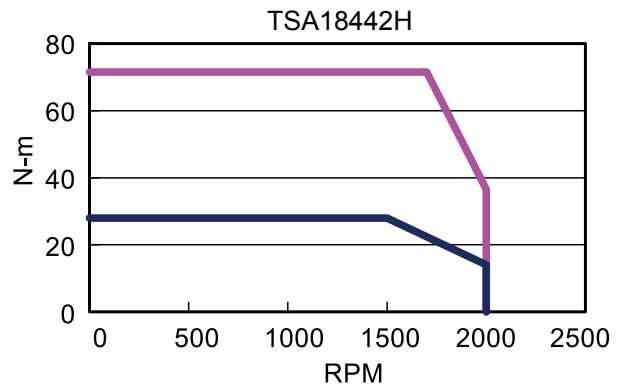
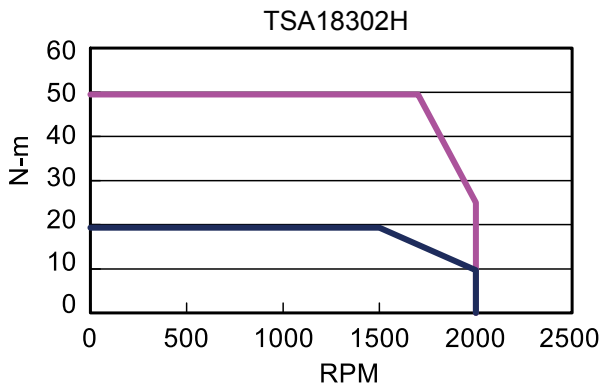
1 (kgf · cm) = 0.0980665 (N · m) 1 (gf · cm · s²) = 0.980665 (kg · cm²)

Motor Type			TSA18302H	TSA18442H	TSA18552H	TSA18752H	TSA22113H	TSA22153H
Rate Output		kW	3	4.4	5.5	7.5	11	15
Applicable Servo Motors			TSTA 75D	TSTA 100D	TSTA 150D	TSTA 200D	TSTA 300D	TSTA 300D
Voltage		V	220	220	220	220	220	220
Rated Torque		N · m	19.1	28.0	35.1	47.8	70.1	95.5
Rated Current		A(rms)	15.0	22.5	28.5	38.0	58.0	78.0
Rated Speed		rpm	1500					
Max. Torque		N · m	49.5	71.5	89.6	122.6	179.0	204.0
Max. Armature Current		A(rms)	39.0	58.5	74.1	98.8	152.0	170.0
Torque Constant		N-m/Arms	1.27	1.24	1.23	1.26	1.21	1.22
Induced Voltage Constant		Vrms/krpm	140.84	142.43	140.64	141.37	144.45	143.93
Rotor Moment of Inertia		x10 ⁻⁴ (kg · m ²)	39.99	51.44	63.52	93.94	160.94	222.20
Armature Resistance		Ω	0.54	0.35	0.26	0.16	0.09	0.05
Armature Inductance		mH	8.66	5.95	4.55	3.07	2.41	1.49
Mechanical Time Constant		ms	0.691	0.593	0.559	0.494	0.479	0.371
Electrical Time Constant		ms	16.12	16.81	17.24	18.96	26.77	29.12
Insulation Class			F Class (155°C)					
Weight (standard)		kgw	19.5	26.2	28.5	42.0	46.0	58.0
Frame	LA	mm	200	200	200	200	235	235
	LB	mm	114.3	114.3	114.3	114.3	200	200
	LC	mm	180	180	180	180	220	220
	LZ	mm	13.5	13.5	13.5	13.5	13.5	13.5
Length	L	mm	323	351.5	394.5	483	458	534
	LL	mm	244	272.5	281.5	370	341.5	417.5
	Q	mm	79	79	113	113	116	116
	LE	mm	3.2	3.2	3.2	3.2	4	4
Shaft	S	mm	35	35	42	42	42	42
	W	mm	10	10	12	12	12	12
	T	mm	8	8	8	8	8	8
	U	mm	5	5	5	5	5	5
	DH	mm	M12x24	M12x24	M16x32	M16x32	M16x32	M16x32

DIMENSION



PERFORMANCE CURVE



— Intermittent
— Continuous