GTR
GEAR MOTOR
Since 1974
Power Transmission

Select most suitable product for easy operation

New!

F3 Series Greater Variety

Small Diameter Output Shaft Type

(concentric hollow shaft/concentric solid shaft)

●Varieties

Capacity: 0.2kW – 1.5kW
Reduction ratio: 1/5 – 1/30

●Features

Broader mounting selection range

(1) Compact

Approximately 5% shorter
Approximately 10% lighter

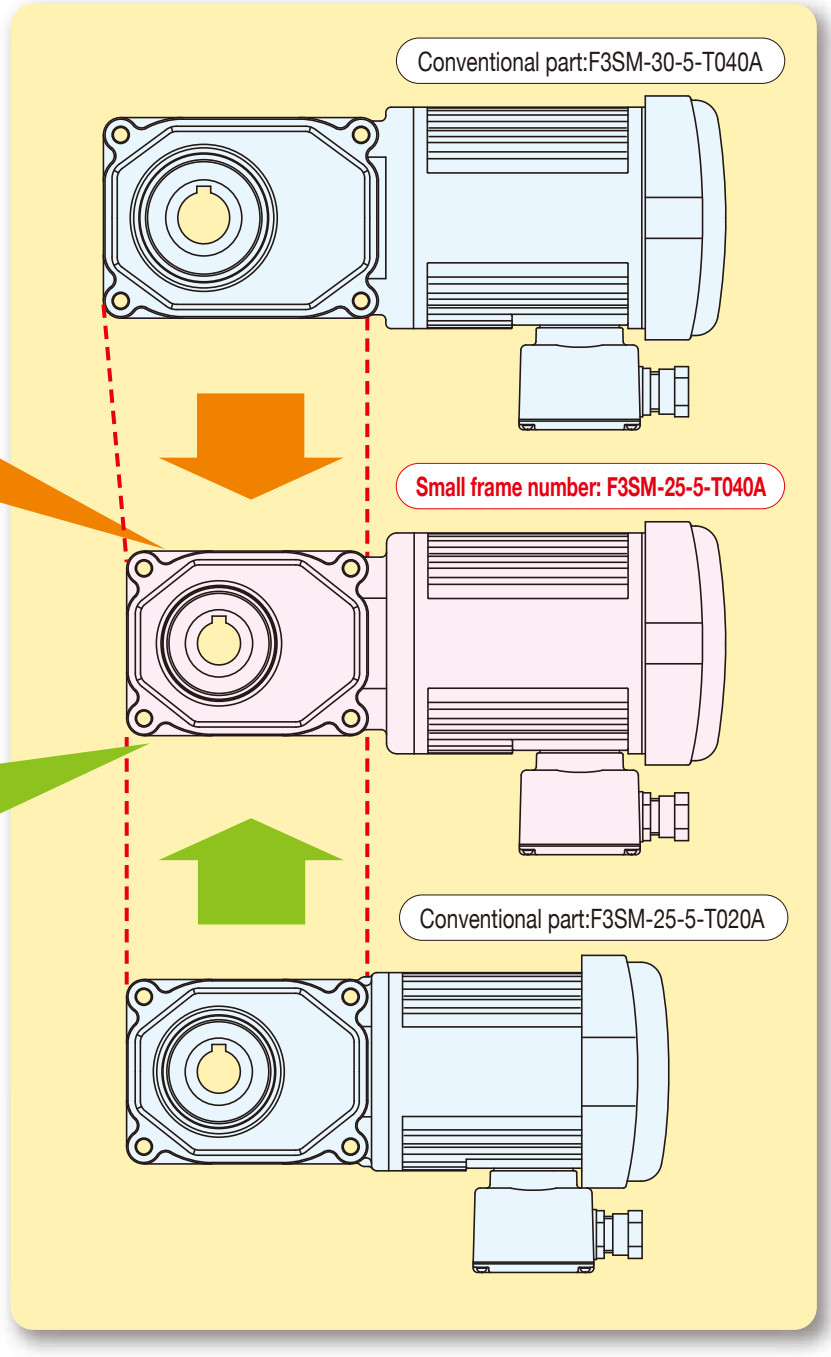
The reducer has become more compact: it's shorter in length and takes up less space.

(2) Improved mounting freedom

Able to increase capacity with the same mounting dimensions of conventional types
(* Requires setting formula)

For example, the 0.2kW gearmotor and 0.4kW gearmotor reducers have the same size, so even if required capacity changes the mounting dimensions remain the same.

●Rapid delivery



NISSEI CORPORATION
http://www.nissei-gtr.co.jp

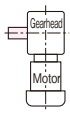
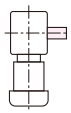
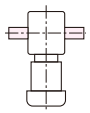
New! F3 SERIES Small Diameter Output Shaft Type

concentric hollow shaft
concentric solid shaft

●Model and Type Designation

The F3 series small diameter output shaft type gearmotors are classifiedby codes as shown below. Specify these codes in your inquiry and order.

Type			Frame Number	Shaft Arrangement	Reduction Ratio Motor	Capacity	Voltage	Terminal Box
F3	S	B	25		10	T040	W	A
F3	F	M	28	T	30	075		
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Series Name	F3	: F3 Series (Concentric Hollow Shaft/Concentric Solid Shaft)
② Classification by Mount Form	S	: Hollow Shaft Type
	F	: Solid Shaft Type
③ Classification by Motor Type	M	: With Motor
	B	: With Brake-Motor
	J	: With Manual Brake Release Device (Option)
	W	: With Waterproof Motor
	V	: With Waterproof Brake-Motor
	G	: With Outdoor Motor
	H	: With Outdoor Brake-Motor
	[Blank]	: No Motor (dual-shaft reducer)
	S	: S model reducer (model able to attach to indicated motor)
④ Frame Number and Diameter of Output Shaft	Output Shaft Diameter (bore diameter in the case of Hollow Shaft, outer diameter in the case of Solid Shaft)	
⑤ Shaft Arrangement for Solid Shaft	Conentric Hollow Shaft	Concentric Solid Shaft
	[Blank]	L: Output shaft on the left, viewed from input shaft side  / R: Output shaft on the right, viewed from input shaft side  / T: Output shaft on both sides, viewed from input shaft side 
⑥ Reduction Ratio	5:1／5　30:1／30	
⑦ Motor Type and Capacity	T020	: 3-phase 0.2kW
	T040	: 3-phase 0.4kW
	075	: 3-phase 0.75kW
	150	: 3-phase 1.5kW
	200	: 1-phase 200W
	400	: 1-phase 400W
⑧ Voltage	[Blank]	: Standard voltage 3-phase 200V/50Hz, 200V/60Hz, 220V/60Hz 1-phase 100/50Hz, 100V/60Hz
	W	: Double voltage 3-phase 380V/50Hz, 400V/50Hz, 400V/60Hz, 440V/60Hz 1-phase 200V/50Hz, 200V/60Hz (1-phase double voltage requires a custom order)
⑨ Terminal Box	A	: A type terminal box: standard with 0.4 kW or less
	Z	: Z type terminal box (contains rectifier): 0.4kW or less with brake (option)
	[Blank]	: Steel plate terminal box: standard 0.75kW or more
	E	: E type terminal box: waterproof/outdoor type standard for models of all capacities

(Note) 1. The above table only describes the F3 series small diameter output shaft type. The whole F3 series lineup of variations covers motor capacities 0.1kW to 2.2kW and reduction ratios of 1/5 to 1/1500. For more details, refer to the GTR MIDI SERIES (0.1kW – 2.2kW) Catalog.
2. For more details regarding options or custom specifications, refer to the GTR MIDI SERIES (0.1kW – 2.2kW) Catalog or contact one of our sales offices.

●Standard Model Lineup

Model	Motor Capacity	Frame Number	Reduction Ratio
Gearmotor Gearmotor with Brake Waterproof/Outdoor Gearmotor Waterproof/Outdoor Gearmotor with Brake Gearmotor with Manual Brake Release (option) Reducer (dual-shaft model) S Type Reducer (model able to attach to indicated motor)	3-phase 0.2kW 1-phase 200W	20(18)	1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30
	3-phase 0.4kW 1-phase 400W	25(22)	1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30
	3-phase 0.75kW	30(28)	1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30
	3-phase 1.5kW	35(32)	1/5 1/7.5 1/10 1/12.5 1/15 1/20 1/25 1/30

(Note) 1. Frame numbers in parentheses are solid shaft frame numbers.
2. Solid shaft types include a code (L, R, or T) indicating the output shaft arrangement. Refer to model/type designation for details.
3. Solid shaft is unavailable, and only hollow shaft is available for 1-phase motors, waterproof/outdoor types, dual-shaft type reducers, and S type reducers.
4. Brakes are unavailable for 1.5kW waterproof/outdoor types.

●F3 Series Small Diameter Output Shaft Performance Table

Motor Capacity	Frame No.	Reduction Ratio	Actual Reduction Ratio (Fraction)	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque N·m		Output Shaft Allowable O.H.L. (Hollow Shaft)	Output Shaft Allowable O.H.L. (Solid Shaft)	Input Shaft Allowable O.H.L. (dual-shaft type reducer)
				50Hz	60Hz	50Hz	60Hz	N	N	N
3-phase 0.2kW 1-phase 200W	20 (18)	1/ 5	1/ 5	300	360	5.5	4.6	980	880	245
		1/ 7.5	2/ 15	200	240	8.3	7	1080	980	
		1/10	1/ 10	150	180	11	9.2	1180	1080	
		1/12.5	2/ 25	120	144	14	12	1270	1180	
		1/15	1/ 15	100	120	17	14	1320	1230	
		1/20	1/ 20	75	90	23	19	1470	1370	
		1/25	1/ 25	60	72	27	24	1570	1470	
		1/30	2/ 59	50	60	33	27	1670	1570	
3-phase 0.4kW 1-phase 400W	25 (22)	1/ 5	1/ 5	300	360	11	9.2	1230	1270	294
		1/ 7.5	2/ 15	200	240	17	14	1370	1420	
		1/10	1/ 10	150	180	23	19	1520	1520	
		1/12.5	19/235	120	144	27	24	1620	1620	
		1/15	1/ 15	100	120	33	27	1720	1720	
		1/20	1/ 20	75	90	44	37	1860	1910	
		1/25	1/ 25	60	72	55	46	2010	2060	
		1/30	1/ 30	50	60	67	55	2110	2160	
3-phase 0.75kW	30 (28)	1/ 5	1/ 5	300	360	21	18	1520	1470	392
		1/ 7.5	2/ 15	200	240	31	25	1760	1670	
		1/10	1/ 10	150	180	41	34	1910	1810	
		1/12.5	19/235	120	144	52	43	2060	1960	
		1/15	1/ 15	100	120	63	52	2160	2060	
		1/20	1/ 20	75	90	83	70	2400	2300	
		1/25	1/ 25	60	72	104	86	2550	2450	
		1/30	1/ 30	50	60	124	104	2650	2600	
3-phase 1.5kW	35 (32)	1/ 5	1/ 5	300	360	41	34	1960	1760	392
		1/ 7.5	2/ 15	200	240	63	52	2250	2010	
		1/10	1/ 10	150	180	83	70	2450	2210	
		1/12.5	19/235	120	144	104	86	2600	2350	
		1/15	1/ 15	100	120	124	104	2740	2500	
		1/20	1/ 20	75	90	166	138	2990	2700	
		1/25	1/ 25	60	72	208	173	3190	2890	
		1/30	1/ 30	50	60	249	208	3280	3040	

(Note) 1. Frame numbers in parentheses are solid shaft frame numbers.
2. The allowable O.H.L. for output hollow shaft are the values measured at a position 20 mm from the edge of output shaft.
3. The allowable O.H.L. for output solid shaft are the values measured at the center the edge of output shaft.
4. Solid shaft is unavailable, and only hollow shaft is available for 1-phase motors, waterproof/outdoor types, dual-shaft type reducers, and S type reducers.
5. The allowable O.H.L. for input shaft only apply to dual-shaft reducers.
6. The above table only describes the F3 series small diameter output shaft type. The whole F3 series lineup of variations covers motor capacities 0.1kW to 2.2kW and reduction ratios of 1/5 to 1/1500. For more details, refer to the GTR MIDI SERIES (0.1kW – 2.2kW) Catalog.

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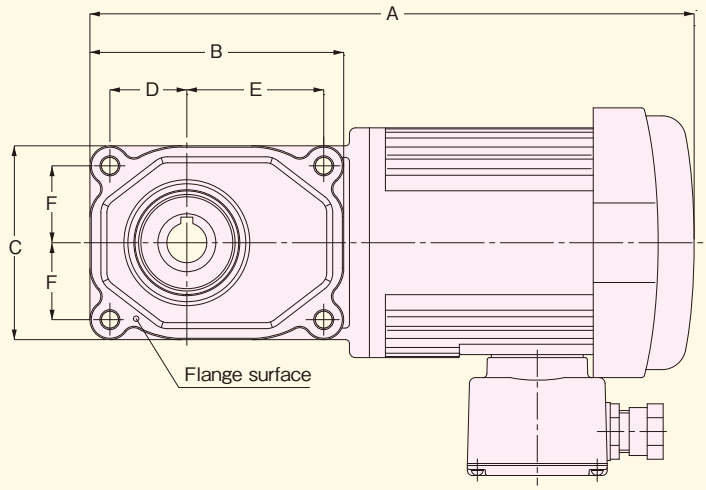
concentric hollow shaft
concentric solid shaft

●Outer Dimension Diagrams (Example)



Capacity	Frame Number	A	B	C	D	E	F
0.2 kW	20(18)	302.5(319.5)	127	97	38.5	68.5	38.5
0.4 kW	25(22)	347.5(367)	140	107	43.5	76.5	43.5
0.75kW	30(28)	389.5(396.5)	159	116	48	91	48
1.5 kW	35(32)	461.5(483)	185	136	56	105	56

(Note) 1. Frame numbers in parentheses are solid shaft frame numbers.
2. The A dimension value in parentheses is the dimension with a brake-motor.
3. The A dimension differs from the above values for 1-phase, and waterproof/outdoor types. Contact one of our sales offices for more details.

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