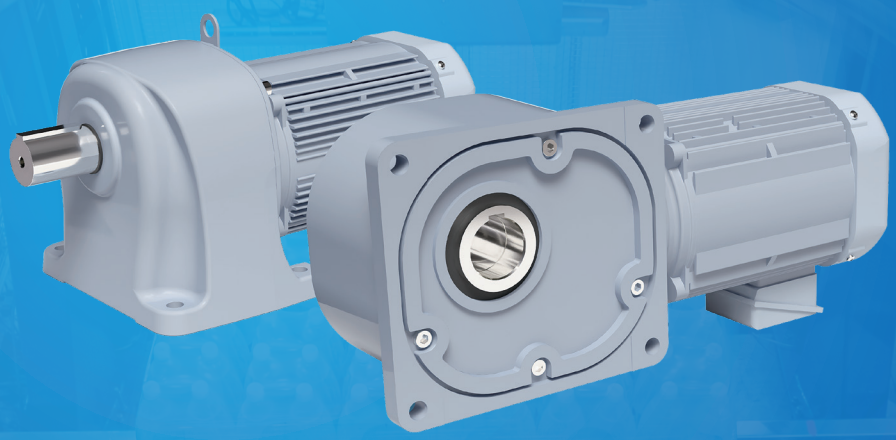
Brother Gearmotor

1-3 HP Models with Aluminum Construction

For reduced structural load, simplified design, and flexible integration.



Index

02 GAL 50 Frames (Inline)

03 FAS 55 Frames (Right Angle)

04 Benefits of Aluminum Design

gearmotor division

GAL Type Model Change

Induction Gearmotor

	Mounting Type	Frame Size	Shaft Type	Reduction Ratio		Motor Type	Motor Specifications	Power	Number of Phases	Supply Voltage	Standards	Terminal Box	Brake	Option	Option Code
Original Part Number	G3L	50	N	300	—	M	U	08	T	U	V	E	N		
New Part Number	GAL	50	N	300	—	M	U	08	T	U	V	E	N		

NEMA C-Face Gearbox

	Mounting Type	Frame Size	Shaft Type	Reduction Ratio		Standards	Motor Type	Power	Option	Option Code
Original Part Number	G3L	50	N	600	—	N	C	L		
New Part Number	GAL	50	N	600	—	N	C	L		

IPM Gearmotor

	Mounting Type	Frame Size	Shaft Type	Reduction Ratio	Backlash		Motor Type	Motor Specifications	Power	Supply Voltage	Standards	Terminal Box	Brake	Option	Option Code
Original Part Number	G3L	50	N	900	L	—	P	M	04	N	V	T	N		
New Part Number	GAL	50	N	900	L	—	P	M	04	N	V	T	N		

High Precision Gearboxes for Servo Motor

	Mounting Type	Motor Type	Frame Size	Shaft Type		Reduction Ratio	Accuracy	Power	Type	Option	Option Code
Original Part Number	AG3L	Z	50		—	120	L	2000	K22		
New Part Number	AGAL	Z	50		—	120	L	2000	K22		

GAL Type Target Model

Induction Gearmotor

Part Number	4 Poles Motor Power	Frame Size	Reduction Ratio

3-Phase

Part Number	4 Poles Motor Power	Frame Size	Reduction Ratio
Gearmotor	3-Phase 0.4kW [1/2HP]	50	1/600, 1/750, 1/900, 1/1200
Gearmotor with Brake	3-Phase 0.55kW [3/4HP]	50	1/300, 1/375, 1/450
Brakemotors with Manual Release	3-Phase 0.75kW [1HP]	50	1/300, 1/375, 1/450
IP65 Gearmotor	3-Phase 1.5kW [2HP]	50	1/100, 1/120, 1/160, 1/200
IP65 Gearmotor with Brake	3-Phase 2.2kW [3HP]	50	1/30, 1/40, 1/50, 1/60, 1/80, 1/100

1-Phase

Part Number	4 Poles Motor Power	Frame Size	Reduction Ratio
Gearmotor	1-Phase 0.4kW [1/2HP]	50	1/600, 1/750, 1/900, 1/1200
Gearmotor with Brake			

NEMA C-Face Gearbox

Part Number	4 Poles Motor Power	Frame Size	Reduction Ratio
NEMA C-Face Gearbox	0.4kW [1/2HP]	50	1/600, 1/750, 1/900, 1/1200
	3-Phase 0.75kW [1HP]	50	1/300, 1/375, 1/450
	3-Phase 1.5kW [2HP]	50	1/100, 1/120, 1/160, 1/200
	3-Phase 2.2kW [3HP]	50	1/30, 1/40, 1/50, 1/60, 1/80, 1/100

IPM Gearmotor

Part Number	Motor Power	Frame Size	Reduction Ratio
Gearmotor	3-Phase 0.4kW [1/2HP]	50	1/600, 1/750, 1/900, 1/1200
Gearmotor with Brake	3-Phase 0.75kW [1HP]	50	1/300, 1/375, 1/450
Brakemotors with Manual Release	3-Phase 1.5kW [2HP]	50	1/100, 1/120, 1/160, 1/200
IP65 Gearmotor	3-Phase 2.2kW [3HP]	50	1/30, 1/40, 1/50, 1/60, 1/80, 1/100
IP65 Gearmotor with Brake			

Low Backlash High Precision Gearboxes for Servo Motor

Part Number	Motor Power	Frame Size	Reduction Ratio
Z Type Gearbox	2000W	50	1/100, 1/120, 1/160, 1/200

FAS Type Model Change

Induction Gearmotor

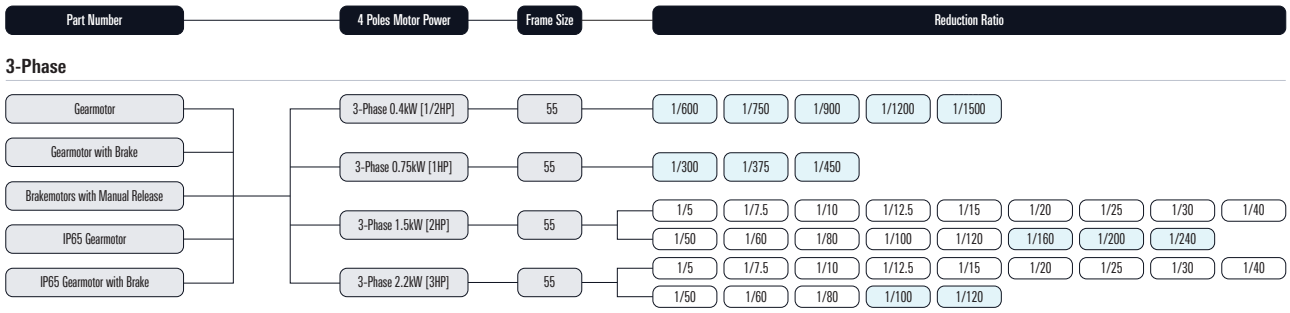
	Mounting Type	Frame Size	Shaft Type	Reduction Ratio		Motor Type	Motor Specifications	Power	Number of Phases	Supply Voltage	Standards	Terminal Box	Brake	Option	Option Code
Original Part Number	FS	55	N	80	—	M	U	15	T	U	V	E	B2	X	T9HZ
New Part Number	FAS	55	N	80	—	M	U	15	T	U	V	E	B2	X	T9HZ

IPM Gearmotor

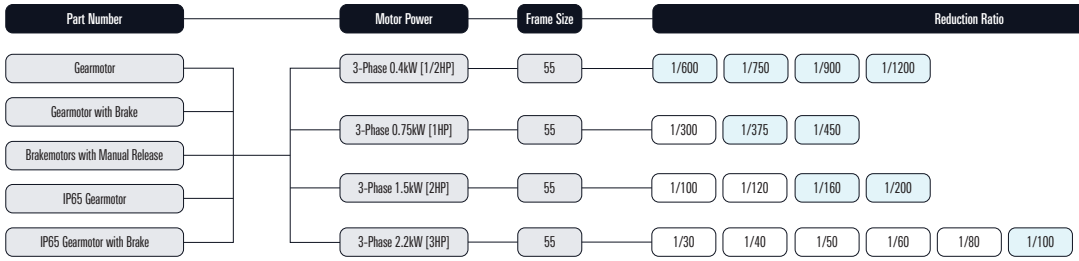
	Mounting Type	Frame Size	Shaft Type	Reduction Ratio	Backlash		Motor Type	Motor Specifications	Power	Supply Voltage	Standards	Terminal Box	Brake	Option	Option Code
Original Part Number	FS	55	N	240	N	—	P	D	15	N	V	T	N		
New Part Number	FAS	55	N	240	N	—	P	D	15	N	V	T	N		

FAS Type Target Model

Induction Gearmotor



IPM Gearmotor



*Items outlined in ( ) are limited torque types. Please make sure to check the allowable output shaft torque in the performance table.

Benefits of Aluminum Design

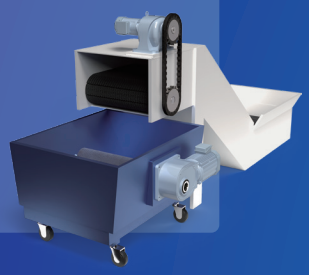
1. Accelerates and simplifies assembly process

Fast, Safe Installation

Reduces the effort and risk of mounting and removal, especially in elevated or hard-to-access locations, while improving speed of installation.

Easy, Lightweight Equipment

Lower gearmotor weight reduces structural demands on frames and housings, enabling lighter overall equipment and more flexible design configurations.



2. Reduces equipment weight and structural complexity

Switching to aluminum gearhead cases **reduces weight by approximately 20 to 37%**

Type	Power	Typical Model Weight	Aluminum Model Weight	Product Weight-Reduction Ratio
GAL	0.4kW [1/2HP]	52.5kg	33.0kg	37%
FAS		60.5kg	42.7kg	29%
GAL	0.75kW [1HP]	61.0kg	41.5kg	32%
FAS		68.5kg	50.7kg	26%
GAL	1.5kW [2HP]	64.0kg	44.5kg	30%
FAS		74.5kg	56.7kg	24%
GAL	2.2kW [3HP]	71.5kg	52.0kg	27%
FAS		85.0kg	67.2kg	21%

3. Helps reduce environmental impact

Reduce Greenhouse Gas Emissions

Aluminum materials help reduce CO_2 emissions during the part manufacturing process.

Smarter, Improved Packaging

Switching from wooden crates to reinforced cardboard helps reduce package weight and improve transportation efficiency.



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