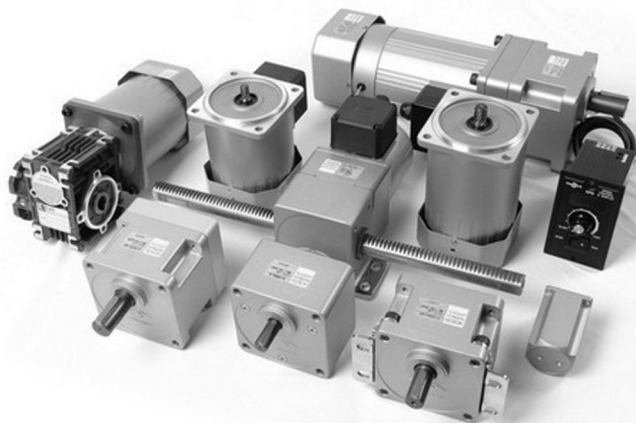


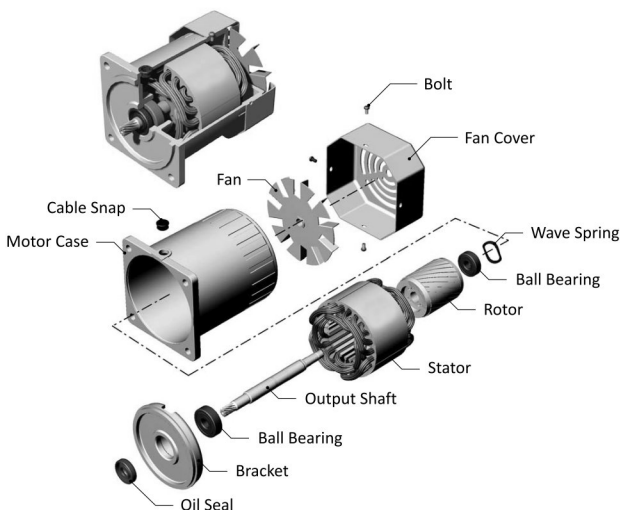
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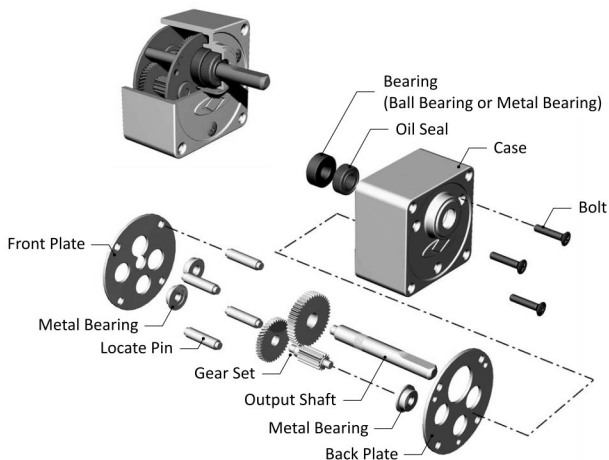
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Construction and Features of Motor



Construction and Features of Gear Box

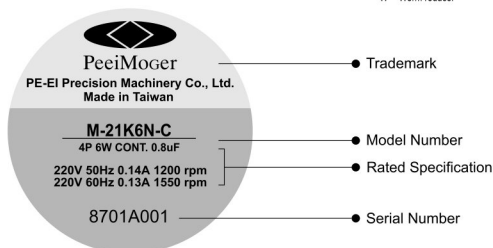


Coding - Motor and Gear Box

Induction Motor Number

M - 2 I K 6 N - C V						
Machine Type	Size	Type	Series	Power	Output Shaft Type	Supplied Voltage
Stands for Motor	0 - 42mm Square 2 - 60mm Square 3 - 70mm Square 4 - 80mm Square 5 - 90mm Square 6 - 104mm Square	I - Induction motor R - Reversible motor T - Torque motor D - DC motor	K - K Series J - J Series	1 - 1W 3 - 3W 6 - 6W 15 - 15W 25 - 25W 40 - 40W 60 - 60W 90 - 90W 120 - 120W 150 - 150W 200 - 200W	A - Round shaft N - Helical pinion shaft U - Strengthened helical pinion shaft K - Spur pinion shaft	A - 1 Ø 110V4P B - 1 Ø 110V2P C - 1 Ø 220V4P D - 1 Ø 220V2P S - 3 Ø 220V4P T - 3 Ø 220V2P U - 3 Ø 440V4P E - DC 12V F - DC 24V I - DC 48V G - DC 90V H - DC 180V
						Accessory
						F - Fan R - Forced cooling fan T - Terminal box B - Electromagnetic Brake S - Safety Brake E - European standard U - UL standard V - Variable speed control (US type) VD - Variable speed control (SS type) C - Electromagnetic clutch brake group P - Temperature switch W - Worm reducer

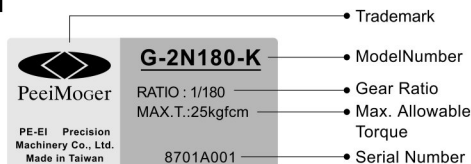
Rating Label :



Gear Box Number

G - 2 N 3 - K H																																																							
Machine Type	Frame Size	Input Gear Shaft Type	Gear Ratio	Type of Bearing	Type of Gear Box																																																		
Stands for Gear Box	0 - 42mm Square 2 - 60mm Square 3 - 70mm Square 4 - 80mm Square 5 - 90mm Square 6 - 104mm Square	N - Helical gear for N type pinion U - Strengthened Helical gear for U type pinion shaft motor K - Spur gear for K type pinion shaft motor		K - Ball Bearing L - Metal Bearing (Oil Impregnated Metal Bearing)	H - Strengthened Gear Box W - Worm Gear Box R - Right Angle Gear Box																																																		
			Gear Ratio																																																				
			<table><tr><td>3</td><td>3.6</td><td>5</td><td>6</td><td>7.5</td><td>9</td><td>10</td><td>12.5</td><td>15</td><td>18</td></tr><tr><td>20</td><td>25</td><td>30</td><td>36</td><td>50</td><td>60</td><td></td><td></td><td></td><td></td></tr><tr><td>75</td><td>90</td><td>100</td><td>120</td><td>150</td><td>180</td><td></td><td></td><td></td><td></td></tr><tr><td>200</td><td>250</td><td>300</td><td>360</td><td>500</td><td>600</td><td>750</td><td>900</td><td>1000</td><td></td></tr><tr><td>1200</td><td>1500</td><td>1800</td><td>2000</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	50	60					75	90	100	120	150	180					200	250	300	360	500	600	750	900	1000		1200	1500	1800	2000								
3	3.6	5	6	7.5	9	10	12.5	15	18																																														
20	25	30	36	50	60																																																		
75	90	100	120	150	180																																																		
200	250	300	360	500	600	750	900	1000																																															
1200	1500	1800	2000																																																				

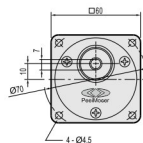
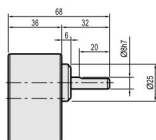
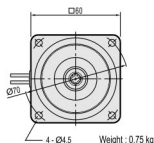
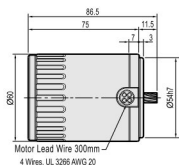
Rating Label :



Induction Motor [Frame 2][6W]

- Single-phase Induction Motor
M-2IK6N-□

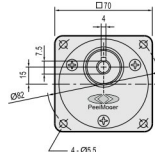
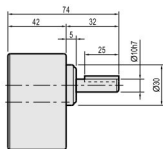
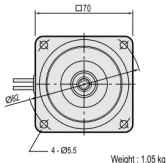
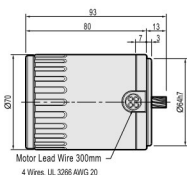
- Gear Box
G-2N□- $\begin{matrix} K \\ L \end{matrix}$



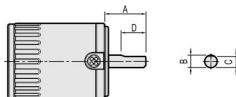
Induction Motor [Frame 3][15W]

- Single-phase Induction Motor
M-3IK15N-□

- Gear Box
G-3N□- $\begin{matrix} K \\ L \end{matrix}$

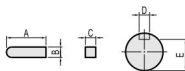


- Dimensions : Motor, Round Shaft



Model	A	B	C	D
M-2IK6A-□	24	Ø6h7	5.5 $\begin{smallmatrix} +0.15 \\ -0.15 \end{smallmatrix}$	20
M-3IK15A-□	32	Ø6h7	5.5 $\begin{smallmatrix} +0.15 \\ -0.15 \end{smallmatrix}$	25

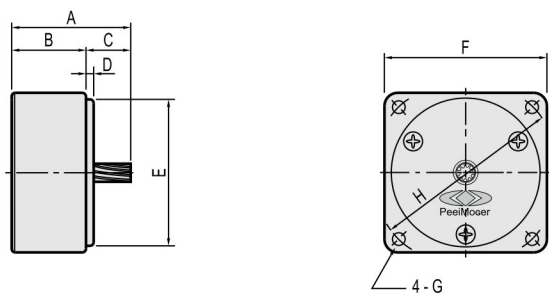
- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-3N□- $\begin{matrix} K \\ L \end{matrix}$	25	4 $\begin{smallmatrix} +0.03 \\ -0.03 \end{smallmatrix}$	4 $\begin{smallmatrix} +0.03 \\ -0.03 \end{smallmatrix}$	4 $\begin{smallmatrix} +0.06 \\ -0.03 \end{smallmatrix}$	7.5 $\begin{smallmatrix} +0.15 \\ -0.15 \end{smallmatrix}$

AC Induction Motor

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-2N10X-K	34	22.5	11.5	3	Ø54h7	□60	Ø4.5	Ø70
G-3N10X-K	39	26	13	3	Ø64h7	□70	Ø5.5	Ø82

- Specifications of Single-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (uF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-2IK6N-C	4	6	220	50	CONT.	0.10	1300	0.45	0.14	0.40	0.6	G-2N□-L	G-2N□-K	G-2N10X-K
M-2IK6A-C				60		0.09	1625	0.36	0.14	0.40				
M-3IK15N-C	4	15	220	50	CONT.	0.17	1225	1.19	0.27	0.65	1.0	G-3N□-L	G-3N□-K	G-3N10X-K
M-3IK15A-C				60		0.15	1550	0.95	0.26	0.65				

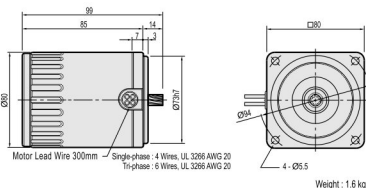
- Maximum Allowable Torque of Gear Boxes

Model	Coupled Intermediate Gear Box															
	Speed (rpm)	Gear Ratio														
		50 Hz	3	5	7.5	-	10	12.5	15	-	20	25	30	50	75	100
G-2N□-K	Max. Allowed torque (kgfcm)	1.0	1.6	2.5	2.7	3.4	4.1	5.0	5.4	6.7	8.1	9.7	16	23	25	25
G-3N□-K	Max. Allowed torque (kgfcm)	2.4	4.0	6.0	6.7	8.2	10	12	13	16	19	23	39	50	50	50

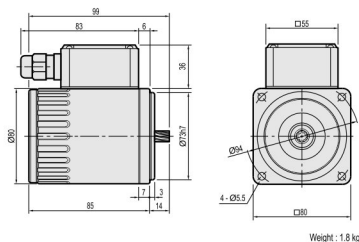
Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

■ Induction Motor [Frame 4][25W]

- ◆ Single-phase / Three-phase Induction Motor
M-4IK25N-□

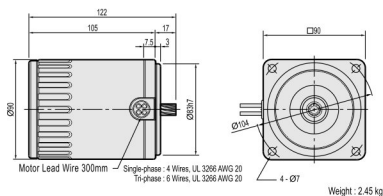


- ◆ With Terminal Box
M-4IK25N-□T

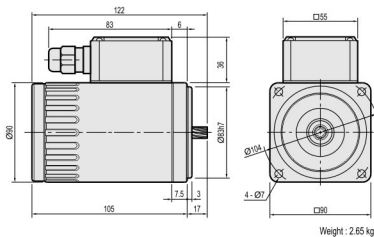


■ Induction Motor [Frame 5][40W]

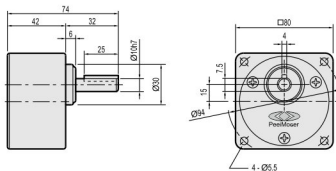
- ◆ Single-phase / Three-phase Induction Motor
M-5IK40N-□



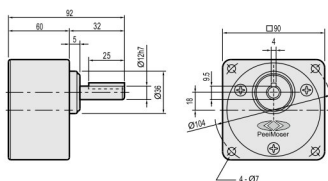
- ◆ With Terminal Box
M-5IK40N-□T



- ◆ Gear Box
G-4N□-^K_L

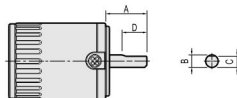


- ◆ Gear Box
G-5N□-^K_L



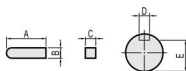
AC Induction Motor

- Dimensions : Motor, Round Shaft



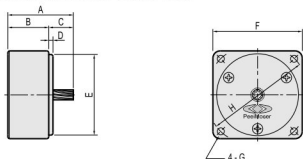
Model	A	B	C	D
M-4K25A-□□	32	Ø8h7	7 ⁰ _{-0.15}	25
M-5K40A-□□	37	Ø10h7	9 ⁰ _{-0.15}	32

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-4N□ _L ^K	25	4 ⁰ _{-0.03}	4 ⁰ _{-0.03}	4 ^{+0.06} _{+0.01}	7.5 ⁰ _{-0.15}
G-5N□ _L ^K	25	4 ⁰ _{-0.03}	4 ⁰ _{-0.03}	4 ^{+0.06} _{+0.01}	9.5 ⁰ _{-0.15}

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-4N10X-K	41	27	14	3	Ø73h7	□80	Ø5.5	Ø94
G-5N10X-K	57	40	17	3	Ø83h7	□90	Ø7	Ø104

- Specifications of Single-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (µF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-4K25H-C	4	25	220	50	CONT.	0.25	1300	1.88	0.51	1.20	1.5	G-4N□-L	G-4N□-K	G-4N10X-K
M-4K25A-C						0.23	1575	1.55	0.48	1.20				
M-5K40H-C	4	40	220	50	CONT.	0.30	1375	2.84	0.77	2.00	2.3	G-5N□-L	G-5N□-K	G-5N10X-K
M-5K40A-C						0.29	1675	2.33	0.70	2.00				

- Specifications of Three-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (µF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-4K25H-S	4	25	220	50	CONT.	0.29	1350	1.81	0.72	5.00	-	G-4N□-L	G-4N□-K	G-4N10X-K
M-4K25A-S						0.23	1625	1.50	0.68	5.00				
M-5K40H-S	4	40	220	50	CONT.	0.30	1375	2.84	0.93	7.00	-	G-5N□-L	G-5N□-K	G-5N10X-K
M-5K40A-S						0.26	1650	2.36	0.67	7.00				

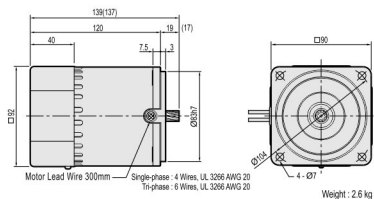
- Maximum Allowable Torque of Gear Boxes

Model	Speed (rpm)	Coupled Intermediate Gear Box														
		500	300	200	180	150	120	100	90	75	60	50	30	20	15	10
		Gear Ratio														
G-4N _L ^K	50 Hz	3	5	7.5	-	10	12.5	15	-	20	25	30	36	45	54	60
	60 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180
	Max. Allowed torque (kgfcm)	4.0	6.7	10	11	13	16	20	21	26	32	39	65	80	80	80
G-5N _L ^K	50 Hz	3	5	7.5	-	10	12.5	15	-	20	25	30	36	45	54	60
	60 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180
	Max. Allowed torque (kgfcm)	6.7	11	16	18	23	28	33	36	45	54	65	100	100	100	100

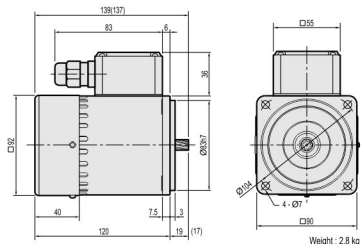
Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

■ Induction Motor [Frame 5][60W]

- ◆ Single-phase / Three-phase Induction Motor
M-5IK60^N-□F

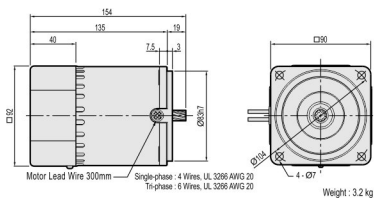


- ◆ With Terminal Box
M-5IK60^N-□FT

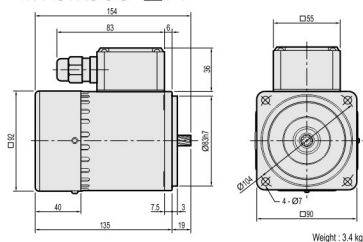


■ Induction Motor [Frame 5][90W]

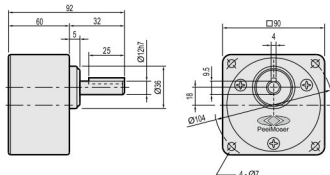
- ◆ Single-phase / Three-phase Induction Motor
M-5IK90U-□F



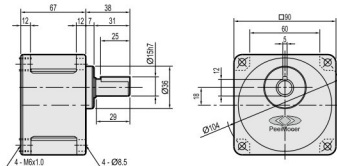
- ◆ With Terminal Box
M-5IK90U-□FT



- ◆ Gear Box
G-5N□-^K_L



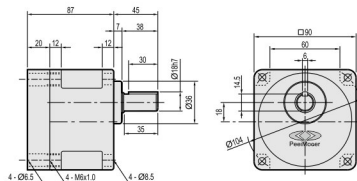
- ◆ Gear Box
G-5U□-K



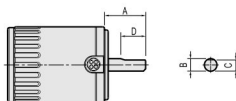
AC Induction Motor

◆ Gear Box

G-5U□-KH

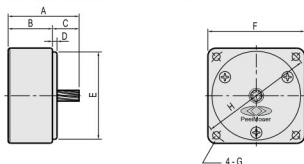


- Dimensions : Motor, Round Shaft



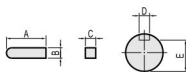
Model	A	B	C	D
M-5IK60A-□F	37	Ø12h7	11 ⁰ _{0.15}	32
M-5IK90A-□F	37	Ø12h7	11 ⁰ _{0.15}	32

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-5N10X-K	57	40	17	3	Ø83h7		Ø7	Ø104
G-5U10X-K	59	40	19	3	Ø83h7		Ø7	Ø104

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-5N□ ^K _L	25	4 ⁰ _{-0.03}	4 ⁰ _{-0.03}	4 ^{+0.06} _{+0.01}	9.5 ⁰ _{-0.15}
G-5U□-K	25	5 ⁰ _{-0.03}	5 ⁰ _{-0.03}	5 ^{+0.05} ₀	12 ⁰ _{-0.15}
G-5U□-KH	30	6 ⁰ _{-0.03}	6 ⁰ _{-0.03}	6 ^{+0.05} ₀	14.5 ⁰ _{-0.15}

- Specifications of Single-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Coupled Gear Box Model										
						Rating		Starting		Capacitor (μF)	Oil Bearing		Ball Bearing		Intermediate Speed Ratio	
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)		Torque (kgfcm)					
M-5K90U ¹ CF	4	90	220	50	CONT.	0.51	1375	4.25	1.22	3.00	-	G-5N ¹ CF	G-5N ¹ CF	G-5N10X ¹ CF	G-5N10X ¹ CF	G-5N10X ¹ CF
M-5K90M CF	4	90	220	50	CONT.	0.49	1675	6.37	1.13	3.00	-	G-5N ¹ M	G-5N ¹ M	G-5U10X ¹ M	G-5U10X ¹ M	G-5U10X ¹ M
M-5K90OU CF	4	90	220	50	CONT.	0.68	1375	6.37	1.91	4.50	-	G-5U ¹ CF	G-5U ¹ CF	G-5U10X ¹ CF	G-5U10X ¹ CF	G-5U10X ¹ CF
M-5K90U CF	4	90	220	50	CONT.	0.69	1675	8.23	1.81	4.50	5.0	-	G-5U ¹ U ¹ CF	G-5U ¹ U ¹ CF	G-5U10X ¹ CF	G-5U10X ¹ CF

- Specifications of Three-phase Induction Motors

Model	Poles	Output (V)	Voltage (V)	Frequency (Hz)	Duty	Coupled Gear Box Model								
						Rating			Starting			Capacitor (uF)	Oil Bearing	
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)			Oil Bearing	Ball Bearing
M-S1800 ¹⁰ -SF	4	60	220	50	CONT.	0.49	1375	4.25	1.34	5.00		G-5N ¹⁰ L	G-5N ¹⁰ K	G-5N10X-K
M-S1800 ¹⁰ -SF	4	60	220	60	CONT.	0.41	1650	3.54	1.27	9.00		G-5N ¹⁰ L	G-5N ¹⁰ K	G-5U10X-K
M-S1800 ¹⁰ -SF	4	60	220	50	CONT.	0.70	1375	6.37	2.35	15.00		G-5U ¹⁰ L	G-5U ¹⁰ K	G-5U10X-K
M-S1800 ¹⁰ -SF	4	90	220	60	CONT.	0.58	1675	5.23	2.20	15.00		G-5U ¹⁰ L	G-5U ¹⁰ K	G-5U10X-K

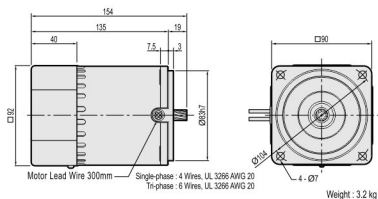
- Maximum Allowable Torque of Gear Boxes

Model	Speed (rpm)																	
	500	300	200	180	150	120	100	90	75	60	50	30	20	15	10			
	Gear Ratio																	
G-SN _{CL}	95 Hz	3	5	7.5	-	-	10	12.5	15	-	20	25	30	36	60	100	100	100
	60 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180	200	200
G-SN _{CL}	Max. Allowed torque (kg/cm)	6.7	11	16	18	18	23	28	33	36	45	65	100	100	100	100	100	100
G-SU _{CH}		10	16	24	27	32	40	48	54	64	77	93	155	200	200	200	200	200
G-SU _{CH}	Max. Allowed torque (kg/cm)	14	23	35	38	46	58	69	77	92	111	133	200	200	200	200	200	200
G-SU _{CH}		-	-	-	-	-	-	-	-	-	-	216	300	300	300	300	300	300

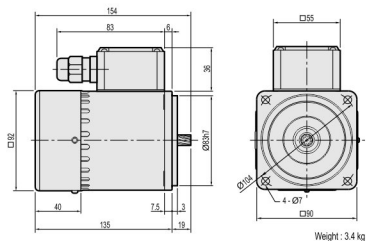
Note: In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

Induction Motor [Frame 5][120W]

- Single-phase / Three-phase Induction Motor
M-5IK120U-□F

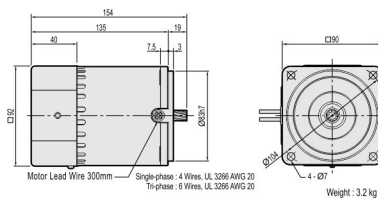


- With Terminal Box
M-5IK120U-□FT

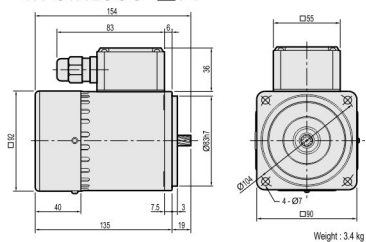


Induction Motor [Frame 5][150W]

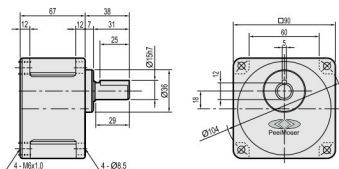
- Single-phase / Three-phase Induction Motor
M-5IK150U-□F



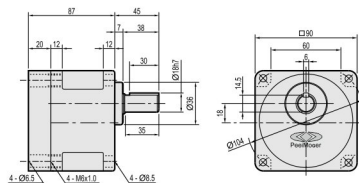
- With Terminal Box
M-5IK150U-□FT



- Gear Box
G-5U□-K

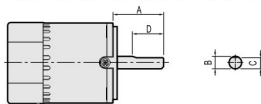


- Gear Box
G-5U□-KH



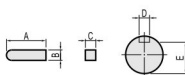
AC Induction Motor

- Dimensions : Motor, Round Shaft



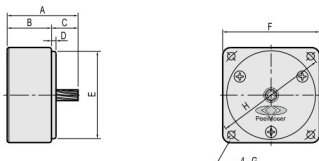
Model	A	B	C	D
M-5K120A-□F	37	Ø12h7	11, $\frac{0}{0.15}$	32
M-5K150A-□F	37	Ø12h7	11, $\frac{0}{0.15}$	32

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-5U□-K	25	5, $\frac{0}{0.03}$	5, $\frac{0}{0.03}$	5, $\frac{+0.05}{0}$	12, $\frac{0}{0.15}$
G-5U□-KH	30	6, $\frac{0}{0.03}$	6, $\frac{0}{0.03}$	6, $\frac{+0.05}{0}$	14.5, $\frac{0}{0.15}$

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-5U10X-K	59	40	19	3	Ø63h7	□90	Ø7	Ø104

- Specifications of Single-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (µF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-5K120U-CF	4	120	220	50	CONT.	0.89	1325	8.82	1.85	6.00	6.0	-	G-5U□-K G-5U□-KH	G-5U10X-K
M-5K120A-CF						0.89	1625	7.19	1.75	6.00				
M-5K150U-CF	4	150	220	50	CONT.	1.07	1325	11.02	2.42	7.50	8.0	-	G-5U□-K G-5U□-KH	G-5U10X-K
M-5K150A-CF						1.31	1625	8.99	2.77	7.50				

- Specifications of Three-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (µF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-5K120U-SF	4	120	220	50	CONT.	0.81	1350	8.66	2.35	18.00	-	-	G-5U□-K G-5U□-KH	G-5U10X-K
M-5K120A-SF						0.69	1550	7.54	2.04	18.00				
M-5K150U-SF	4	150	220	50	CONT.	1.08	1325	11.02	2.80	20.00	-	-	G-5U□-K G-5U□-KH	G-5U10X-K
M-5K150A-SF						0.82	1600	9.13	2.60	20.00				

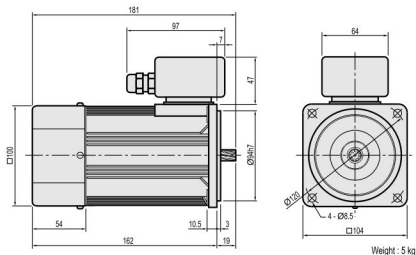
- Maximum Allowable Torque of Gear Boxes

Model	Gear Ratio	Speed (rpm)															Coupled Intermediate Gear Box									
		50 Hz	3	5	7.5	10	15	20	25	30	36	45	60	75	90	100	120	150	180	200	250	300	360	450	540	630
		50 Hz	3.6	6	9	10	15	18	20	30	36	45	60	75	90	100	120	150	180	200	250	300	360	450	540	630
G-5U□-K	Max. Allowed torque (kgfcm)	14	23	35	38	46	58	69	77	92	111	133	200	200	200	200	200	200	200	200	200	200	200	200	200	200
		-	-	-	-	-	-	-	-	-	-	-	216	300	300	300	300	300	300	300	300	300	300	300	300	300
G-5U□-KH	Max. Allowed torque (kgfcm)	14	23	35	38	46	58	69	77	92	111	133	200	200	200	200	200	200	200	200	200	200	200	200	200	200
		-	-	-	-	-	-	-	-	-	-	-	216	300	300	300	300	300	300	300	300	300	300	300	300	300

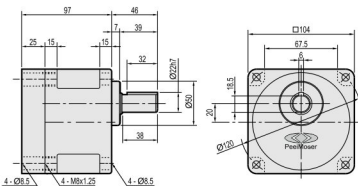
Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

Induction Motor [Frame 6][200W]

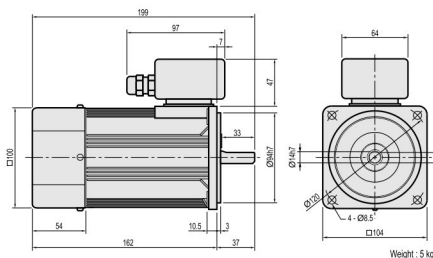
◆ Single-phase / Three-phase Induction Motor M-6IK200U-□FT



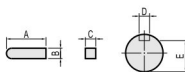
◆ Gear Box G-6U□-KH



◆ With Terminal Box M-6IK200A-□FT



- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-6U□-KH	32	6 ^{+0.03} ₀	6 ^{+0.03} ₀	6 ^{+0.03} ₀	18.5 ^{+0.15} ₀

- Specifications of Single-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (μF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-6IK200U-CFT	4	200	220	50	CONT.	1.41	1375	14.16	4.00	8.80	10.0	-	G-6U□-KH	-
M-6IK200A-CFT	4	200	220	60	CONT.	1.44	1675	11.63	3.70	8.80	10.0	-	G-6U□-KH	-

- Specifications of Three-phase Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (μF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-6IK200U-SFT	4	200	220	50	CONT.	1.16	1375	14.16	4.60	25.00	-	-	G-6U□-KH	-
M-6IK200A-SFT	4	200	220	60	CONT.	1.04	1650	11.80	4.40	25.00	-	-	G-6U□-KH	-

- Maximum Allowable Torque of Gear Boxes

Maximum Allowable Torque of Gear Boxes																	Coupled Intermediate Gear Box								
Model	Speed (rpm)	500	300	200	180	150	120	100	90	75	60	50	30	20	15	10	9	7.5	6	5	3	2	1.5	1	
		Gear Ratio		3	5	7.5	10	12.5	15	18	20	25	30	36	45	60	75	100	150	200	250	300	500	750	1000
	50 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180	200	-	300	260	600	900	1200	1800	2700
G-6U□-KH	Max. Allowed torque (kgfcm)	32	53	79	-	118	142	-	237	284	426	600	800	600	600	600									

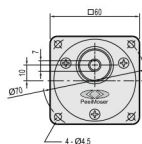
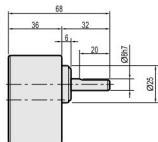
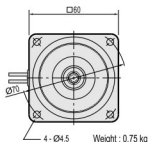
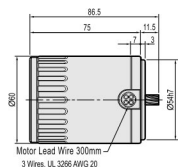
Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

Reversible Induction Motor

Reversible Motor [Frame 2][6W]

- Single-phase Reversible Induction Motor
M-2RK6N-□

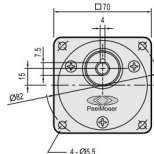
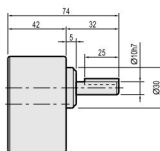
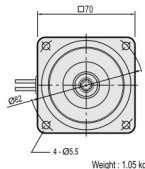
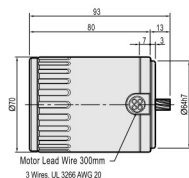
- Gear Box
G-2N□- $\begin{smallmatrix} K \\ L \end{smallmatrix}$



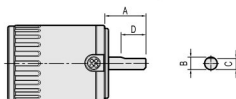
Reversible Motor [Frame 3][15W]

- Single-phase Reversible Induction Motor
M-3RK15N-□

- Gear Box
G-3N□- $\begin{smallmatrix} K \\ L \end{smallmatrix}$

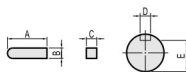


- Dimensions : Motor, Round Shaft



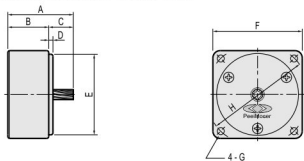
Model	A	B	C	D
M-2RK6N-□	24	Ø47	5.5 $\begin{smallmatrix} \pm 0.15 \\ \pm 0.15 \end{smallmatrix}$	20
M-3RK15N-□	32	Ø87	5.5 $\begin{smallmatrix} \pm 0.15 \\ \pm 0.15 \end{smallmatrix}$	25

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-2N□- $\begin{smallmatrix} K \\ L \end{smallmatrix}$	25	4 $\begin{smallmatrix} \pm 0.03 \\ \pm 0.03 \end{smallmatrix}$	4 $\begin{smallmatrix} \pm 0.03 \\ \pm 0.03 \end{smallmatrix}$	4 $\begin{smallmatrix} \pm 0.06 \\ \pm 0.03 \end{smallmatrix}$	7.5 $\begin{smallmatrix} \pm 0.15 \\ \pm 0.15 \end{smallmatrix}$

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-2N10X-K	34	22.5	11.5	3	Ø54h7	□60	Ø4.5	Ø70
G-3N10X-K	39	26	13	3	Ø64h7	□70	Ø5.5	Ø82

- Specifications of Single-phase Reversible Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (µF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-2R66N-C	4	6	220	50	30min	0.11	1300	0.45	0.15	0.50	0.8	G-2N□-L	G-2N□-K	G-2N10X-K
M-2R66A-C						0.11	1625	0.36	0.16	0.50				
M-3R615N-C	4	15	220	50	30min	0.17	1275	1.15	0.28	0.90	1.2	G-3N□-L	G-3N□-K	G-3N10X-K
M-3R615A-C						0.16	1600	0.92	0.26	0.90				

- Maximum Allowable Torque of Gear Boxes

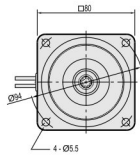
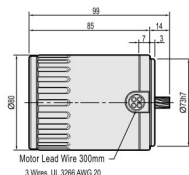
Model		Speed (rpm)																		Coupled Intermediate Gear Box															
		Gear Ratio																		9	7.5	6	5	3	2	1.5	1								
		50 Hz	60 Hz	3.6	6	9	10	-	10	12.5	15	-	20	25	30	50	75	100	150	200	-	200	250	300	360	450	500	600	750	900	1000	1200	1500		
G-2N ₂ -L _K	Max. Allowed torque (kgfcm)	1.0	1.6	2.5	2.7	3.4	4.1	5.0	5.4	6.7	8.1	9.7	16	23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
	G-3N ₂ -L _K	Max. Allowed torque (kgfcm)	2.4	4.0	6.0	6.7	8.2	10	12	13	16	19	23	39	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		

Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

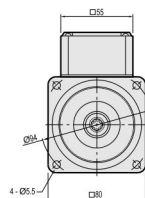
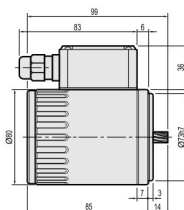
Reversible Induction Motor

Reversible Motor [Frame 4][25W]

- ◆ Single-phase Reversible Induction Motor
M-4RK25N-□

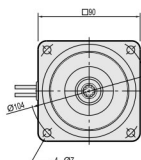
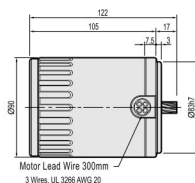


- ◆ With Terminal Box
M-4RK25N-□T

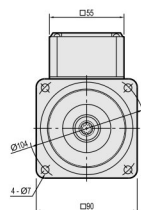
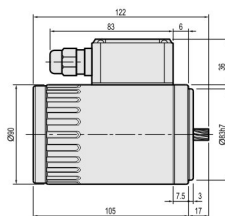


Reversible Motor [Frame 5][40W]

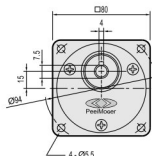
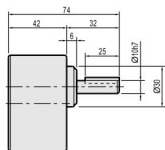
- ◆ Single-phase Reversible Induction Motor
M-5RK40N-□



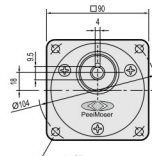
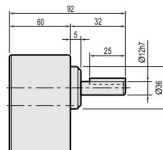
- ◆ With Terminal Box
M-5RK40N-□T



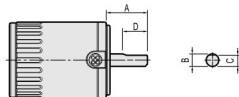
- ◆ Gear Box
G-4N□- $\frac{K}{L}$



- ◆ Gear Box
G-5N□- $\frac{K}{L}$

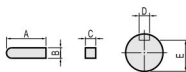


- Dimensions : Motor, Round Shaft



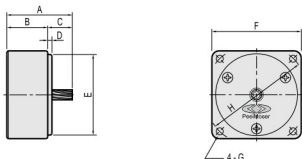
Model	A	B	C	D
M-4RK25A-□	32	Ø8h7	7 $\frac{0}{-0.15}$	25
M-5RK40A-□	37	Ø10h7	9 $\frac{0}{-0.15}$	32

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-4N□-K L	25	4 $\frac{0}{-0.03}$	4 $\frac{0}{-0.03}$	4 $\frac{+0.06}{+0.01}$	7.5 $\frac{0}{-0.15}$
G-5N□-K L	25	4 $\frac{0}{-0.03}$	4 $\frac{0}{-0.03}$	4 $\frac{+0.06}{+0.01}$	9.5 $\frac{0}{-0.15}$

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-4N10X-K	41	27	14	3	Ø73h7	□80	Ø5.5	Ø94
G-5N10X-K	57	40	17	3	Ø83h7	□90	Ø7	Ø104

- Specifications of Single-phase Reversible Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Starting		Capacitor (uF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)		G3 Bearing	Ball Bearing	Intermediate Speed Ratio
M-4RK25N-C M-4RK25A-C	4	25	220	50 60	30min	0.29 0.29	1275 1575	1.91 1.55	0.53 0.49	1.50 1.50	2.0	G-4N□-L	G-4N□-K	G-4N10X-K
M-5RK40N-C M-5RK40A-C	4	40	220	50 60	30min	0.34 0.38	1375 1650	2.84 2.36	0.80 0.73	2.60 2.60	3.0	G-5N□-L	G-5N□-K	G-5N10X-K

- Maximum Allowable Torque of Gear Boxes

Model	Speed (rpm)	Coupled Intermediate Gear Box														
		500	300	200	180	150	120	100	90	75	60	50	30	20	15	10
G-4N□-K L	50 Hz	3	5	7.5	-	10	12.5	15	-	20	25	30	50	75	100	150
	60 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180
G-5N□-K L	50 Hz	4.0	6.7	10	11	13	16	20	21	26	32	39	65	80	80	80
	60 Hz	6.7	11	16	18	23	28	33	36	45	54	65	100	100	100	100

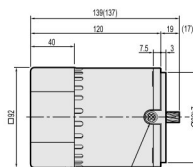
Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

Reversible Induction Motor

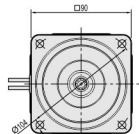
Reversible Motor [Frame 5][60W]

- Single-phase Reversible Induction Motor

M-5RK60^N_U-□F



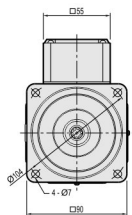
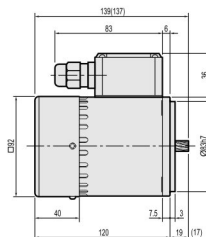
Motor Lead Wire 300mm
3 Wires, UL 3266 AWG 20



Weight : 2.6 kg

- With Terminal Box

M-5RK60^N_U-□FT

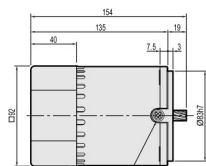


Weight : 2.8 kg

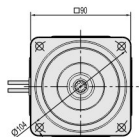
Reversible Motor [Frame 5][90W]

- Single-phase Reversible Induction Motor

M-5RK90U-□F



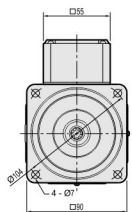
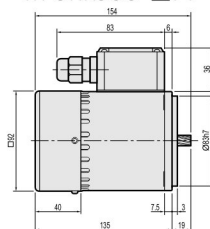
Motor Lead Wire 300mm
3 Wires, UL 3266 AWG 20



Weight : 3.2 kg

- With Terminal Box

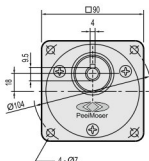
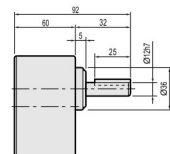
M-5RK90U-□FT



Weight : 3.4 kg

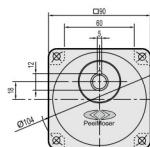
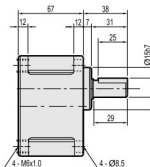
- Gear Box

G-5N^K_L-□



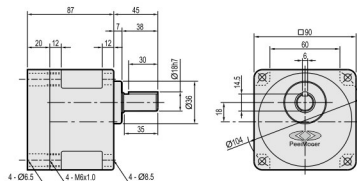
- Gear Box

G-5U^K-□

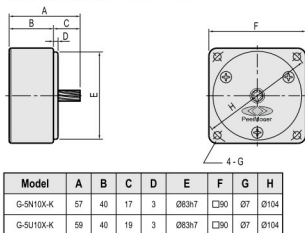


◆ Gear Box

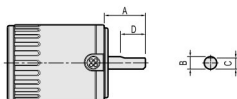
G-5U□-KH



- Intermediate Gear Box

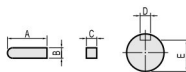


- Dimensions : Motor, Round Shaft



Model	A	B	C	D
M-SRK60A-□F	37	Ø12h7	11, 0 0.15	32
M-SRK90A-□F	37	Ø12h7	11, 0 0.15	32

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-5N□-K	25	4, 0 0.03	4, 0 0.03	4, 0 0.03	9.5, 0 0.15
G-5U□-K	25	5, 0 0.03	5, 0 0.03	5, 0 0.03	12, 0 0.15
G-5U□-KH	30	6, 0 0.03	6, 0 0.03	6, 0 0.03	14.5, 0 0.15

- Specifications of Single-phase Reversible Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating	Starting	Capacitor (uF)	Coupled Gear Box Model
M-SRK60A-□CF	4	60	220	50	30min	Current (A) 0.57 1375 4.25 1.26 3.80 Speed (rpm) 1675 3.49 1.14 3.80 Torque (kgfcm) 6.37 1.93 5.20	5.0	G-5N□-L	G-5N□-K G-5U□-K G-5U10X-K
M-SRK90A-□CF	4	90	220	50	30min	Current (A) 0.68 1375 6.37 1.93 5.20 Speed (rpm) 1675 5.23 1.79 5.20 Torque (kgfcm) 6.37 1.93 5.20	6.0	-	G-5U□-K G-5U10X-K

- Maximum Allowable Torque of Gear Boxes

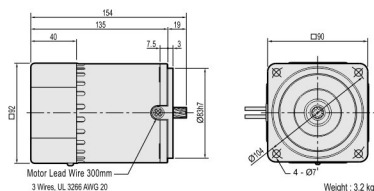
Model	Speed (rpm)	500	300	200	150	120	100	90	75	60	50	30	20	15	10
G-5N□-K	50 Hz	3	5	7.5	-	10	12.5	15	-	20	25	30	50	75	100
G-5U□-K	60 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120
G-5U□-KH	Max. Allowed torque (kgfcm)	6.7	11	16	18	23	28	33	36	45	54	65	100	100	100
G-5U□-K	Max. Allowed torque (kgfcm)	10	16	24	27	32	40	48	54	64	77	93	155	200	200
G-5U□-KH	Max. Allowed torque (kgfcm)	14	23	35	38	46	58	69	77	92	111	133	200	200	200

Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

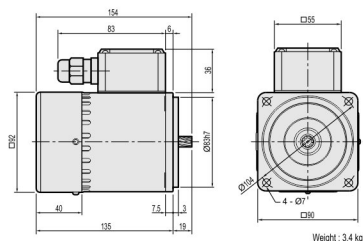
Reversible Induction Motor

Reversible Motor [Frame 5][120W]

- ◆ Single-phase Reversible Induction Motor
M-5RK120U-□F

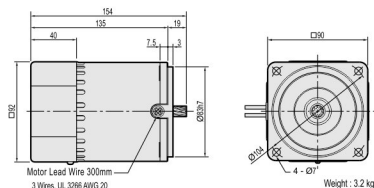


- ◆ With Terminal Box
M-5RK120U-□FT

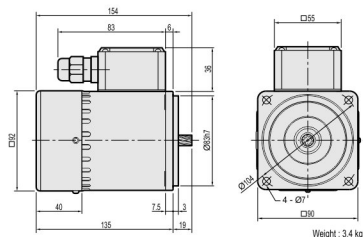


Reversible Motor [Frame 5][150W]

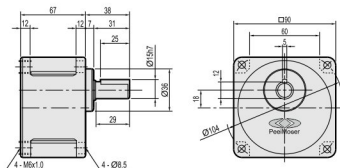
- ◆ Single-phase Reversible Induction Motor
M-5RK150U-□F



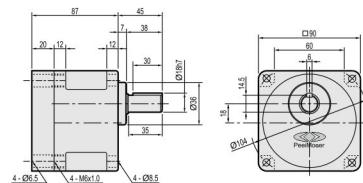
- ◆ With Terminal Box
M-5RK150U-□FT



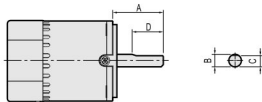
- ◆ Gear Box
G-5U□-K



- ◆ Gear Box
G-5U□-KH

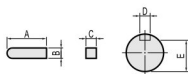


- Dimensions : Motor, Round Shaft



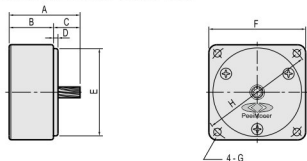
Model	A	B	C	D
M-SRK120A-□F	37	Ø12h7	11 $\frac{0}{0.15}$	32
M-SRK150A-□F	37	Ø12h7	11 $\frac{0}{0.15}$	32

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-5U□-K	25	5 $\frac{0}{-0.03}$	5 $\frac{0}{-0.03}$	6 $\frac{+0.06}{0}$	12 $\frac{0}{-0.15}$
G-5U□-KH	30	6 $\frac{0}{-0.03}$	6 $\frac{0}{-0.03}$	6 $\frac{+0.06}{0}$	14.5 $\frac{0}{-0.15}$

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-5U10X-K	59	40	19	3	Ø63h7	□30	Ø7	Ø104

- Specifications of Single-phase Reversible Induction Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating		Starting		Capacitor (uF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Current (A)	Torque (kgfcm)	GI Bearing	Ball Bearing	Intermediate Speed Ratio
M-SRK120U-CF	4	120	220	50	30min	0.89	1325	8.82	1.91	6.00	7.0	-	G-5U□-K
M-SRK120A-CF						0.96	1625	7.19	1.76	6.00			G-5U□-KH
M-SRK150U-CF	4	150	220	50	30min	1.08	1325	11.02	2.43	7.50	8.0	-	G-5U□-K
M-SRK150A-CF						1.26	1625	8.99	2.69	7.50			G-5U□-KH

- Maximum Allowable Torque of Gear Boxes

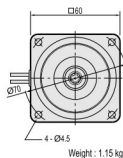
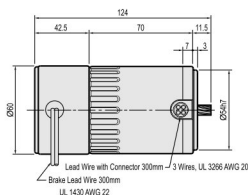
Model	Speed (rpm)	Coupled Intermediate Gear Box															
		500	300	200	180	150	120	100	90	75	60	50	30	20	15	10	1
G-5U□-K	Gear Ratio	3	5	7.5	-	10	12.5	15	-	20	25	30	50	75	100	150	-
		3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180	-
G-5U□-KH	Max. Allowed torque (kgfcm)	14	23	35	38	46	58	69	77	92	111	133	200	200	200	200	200
		-	-	-	-	-	-	-	-	-	-	-	216	300	300	300	300
G-5U□-K	Max. Allowed torque (kgfcm)	14	23	35	38	46	58	69	77	92	111	133	200	200	200	200	200
		-	-	-	-	-	-	-	-	-	-	-	216	300	300	300	300

Note : In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

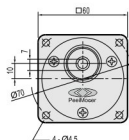
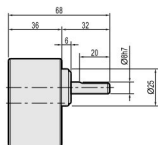
Electromagnetic Brake Motor

■ ■ ■ Elektromagnetic Brake Motor [Frame 2][6W]

- ◆ Single-phase Elektromagnetic Brake Motor
M-2RK6N-□S

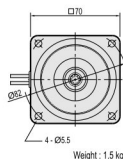
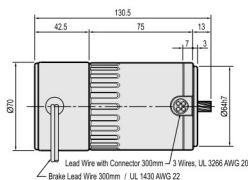


- ◆ Gear Box
G-2N□-^K_L

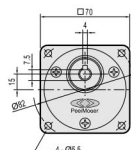
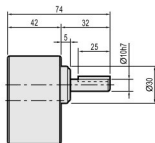


■ ■ ■ Elektromagnetic Brake Motor [Frame 3][15W]

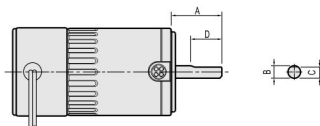
- ◆ Single-phase Elektromagnetic Brake Motor
M-3RK15N-□S



- ◆ Gear Box
G-3N□-^K_L

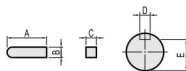


- Dimensions : Motor, Round Shaft



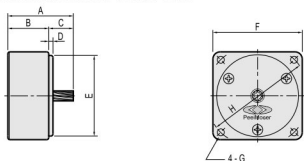
Model	A	B	C	D
M-2RK6N-□S	24	Ø6h7	5.5 ⁰ _{-0.15}	20
M-3RK15N-□S	32	Ø6h7	5.5 ⁰ _{-0.15}	25

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-3N□- ^K _L	25	4 ⁰ _{-0.03}	4 ⁰ _{-0.03}	4 ^{+0.06} _{-0.03}	7.5 ⁰ _{-0.15}

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-2N10X-K	34	22.5	11.5	3	Ø54h7	□60	Ø4.5	Ø70
G-3N10X-K	39	26	13	3	Ø64h7	□70	Ø5.5	Ø82

- Specifications of Single-phase Elektromagnetic Brake Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Coupled Gear Box Model											
						Rating		Braking		Starting		Capacitor uF(V)	Oil Bearing				
						Current (A)	Speed (rpm)	Torque (kgfcm)	Input (W)	Current (A)	Torque (kgfcm)		Current (A)	Torque (kgfcm)	Oil Bearing	Ball Bearing	Intermediate Speed Ratio
M-2RK6N-CS	4	6	220	50	30min	0.11	1300	0.45	7.00	0.03	1.00	0.15	0.50	0.8	G-2N□-L	G-2N□-K	G-2N10X-K
M-2RK6A-CS				60		0.11	1625	0.36	7.00	0.03	1.00	0.16	0.50				
M-3RK15N-CS	4	15	220	50	30min	0.17	1275	1.15	7.00	0.03	1.00	0.28	0.90	1.2	G-3N□-L	G-3N□-K	G-3N10X-K
M-3RK15A-CS				60		0.16	1600	0.92	7.00	0.03	1.00	0.26	0.90				

- Maximum Allowable Torque of Gear Boxes

Model	Speed (rpm)	Coupled Intermediate Gear Box															
		9	7.5	6	5	3	2	1.5	1	9	7.5	6	5	3	2	1.5	1
G-2N□-K	50 Hz	-	200	250	300	500	750	1000	1500	-	200	250	300	500	750	1000	1500
	60 Hz	-	200	250	300	500	750	1000	1500	-	200	250	300	500	750	1000	1500
G-3N□-K	50 Hz	-	200	250	300	500	750	1000	1500	-	200	250	300	500	750	1000	1500
	60 Hz	-	200	250	300	500	750	1000	1500	-	200	250	300	500	750	1000	1500

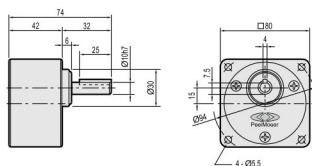
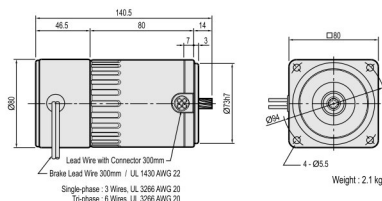
Note: In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.

Electromagnetic Brake Motor

■ ■ ■ Elektromagnetic Brake Motor [Frame 4][25W]

- ◆ Single-phase / Three-phase Elektromagnetic Brake Motor
M-4RK25N-□S

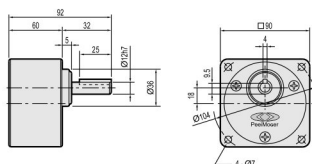
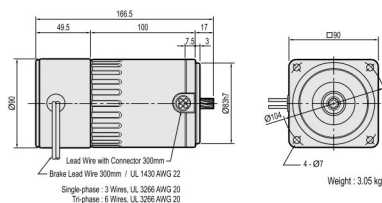
- ◆ Gear Box
G-4N□-^K_L



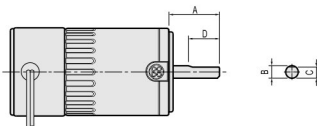
■ ■ ■ Elektromagnetic Brake Motor [Frame 5][40W]

- ◆ Single-phase / Three-phase Elektromagnetic Brake Motor
M-5RK40N-□S

- ◆ Gear Box
G-5N□-^K_L

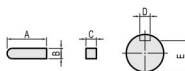


- Dimensions : Motor, Round Shaft



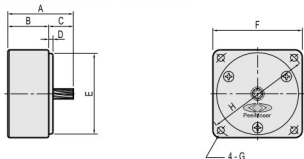
Model	A	B	C	D
M-4RK25A-□S	32	Ø30h7	7.5 ^{+0.15} ₀	25
M-5RK40A-□S	37	Ø30h7	9.5 ^{+0.15} ₀	32

- Dimensions : Key & Keyway



Model	A	B	C	D	E
G-4N□- ^K _L	25	4 ^{+0.03} _{-0.03}	4 ^{+0.03} _{-0.03}	4 ^{+0.06} _{-0.01}	7.5 ^{+0.15} ₀
G-5N□- ^K _L	25	4 ^{+0.03} _{-0.03}	4 ^{+0.03} _{-0.03}	4 ^{+0.06} _{-0.01}	9.5 ^{+0.15} ₀

- Intermediate Gear Box



Model	A	B	C	D	E	F	G	H
G-4N10X-K	41	27	14	3	Ø73h7	□80	Ø5.5	Ø94
G-5N10X-K	57	40	17	3	Ø83h7	□90	Ø7	Ø104

- Specifications of Single-phase Elektromagnetic Brake Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Braking			Starting			Capacitor (μF)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Input (W)	Current (A)	Torque (kgfcm)	Current (A)	Torque (kgfcm)	Oil Bearing		Ball Bearing	Intermediate Speed Ratio	
M-4RK25N-CS	4	25	220	50	30min	0.29	1275	1.91	7.00	0.03	2.00	0.53	1.50	2.0	G-4N□-L	G-4N□-K	G-4N10X-K	
M-4RK25A-CS										0.29	1575	1.55	7.00					0.03
M-5RK40N-CS	4	40	220	50	30min	0.34	1375	2.84	11.00	0.06	5.00	0.80	2.80	3.0	G-5N□-L	G-5N□-K	G-5N10X-K	
M-5RK40A-CS										0.38	1650	2.36	11.00					0.06

- Specifications of Three-phase Elektromagnetic Brake Motors

Model	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rating			Braking		Starting		Capacitor uF(V)	Coupled Gear Box Model		
						Current (A)	Speed (rpm)	Torque (kgfcm)	Input (W)	Current (A)	Torque (kgfcm)	Current (A)		Torque (kgfcm)	Oil Bearing	Ball Bearing
M-4RK25N-SS	4	25	220	50	CONT.	0.29	1350	1.81	7.00	0.03	2.00	0.72	5.00	G-4N□-L	G-4N□-K	G-4N10X-K
M-4RK25A-SS				60		0.23	1625	1.50	7.00	0.03	2.00	0.68	5.00			
M-5RK40N-SS	4	40	220	50	CONT.	0.30	1375	2.84	11.00	0.06	5.00	0.93	7.00	G-5N□-L	G-5N□-K	G-5N10X-K
M-5RK40A-SS				60		0.26	1650	2.36	11.00	0.06	5.00	0.67	7.00			

- Maximum Allowable Torque of Gear Boxes

Model	Speed (rpm)	Coupled Intermediate Gear Box														
		500	300	200	180	150	120	100	90	75	60	50	30	20	15	10
G-4N□-K	50 Hz	3	5	7.5	-	10	12.5	15	-	20	25	30	50	75	100	150
	60 Hz	3.6	6	9	10	-	15	18	20	-	30	36	60	90	120	180
	Max. Allowed torque (kgfcm)	4.0	6.7	10	11	13	16	20	21	26	32	39	65	80	80	80
G-5N□-K	50 Hz	6.7	11	16	18	23	28	33	36	45	54	65	100	100	100	100
	60 Hz	7.5	12.5	18	21	26	31	36	39	48	57	69	110	110	110	110
	Max. Allowed torque (kgfcm)	6.7	11	16	18	23	28	33	36	45	54	65	100	100	100	100

Note: In the above table, the deep-color fields indicate that the output shaft of the gear box and the motor shaft are in the same direction; the light-color fields indicate that they are in opposite directions.



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