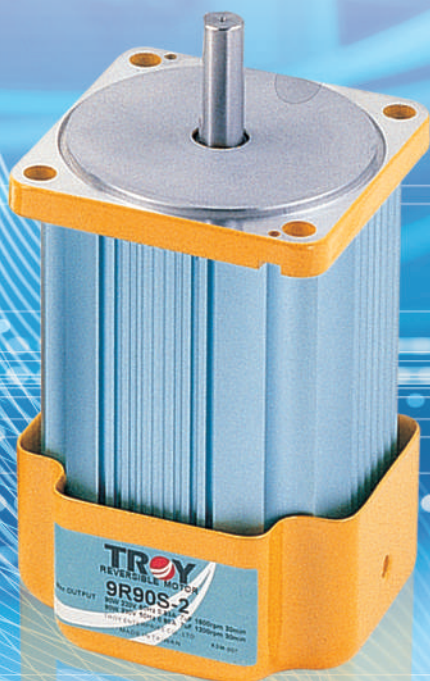


# Company Profile



Quality, Technic, Service of TROY

TROY Enterprise Co., Ltd. specializes in the designing and manufacturing of Motors, Motor drivers, Motor controllers and Gearbox series.

ISO9001 and ISO14001 was introduced into the company to establish a customer-oriented service system to fulfill the quality policy “ Providing the customers with good products and services ”. In 1999, we passed the audit conducted by TÜV Germany and got certificates of ISO9001 and ISO14001. We got the certificate of ISO9001 of year 2015 version again in 2017.

TROY is a creativity and idea company which places importance on system development. Based on our capability , we will continue our commitment to innovate and support you in finding the proper products for your application. With our belief **Quality, Technic, and Service**, we can always meet your demand and be your best partner.



German patent



Taiwan patent

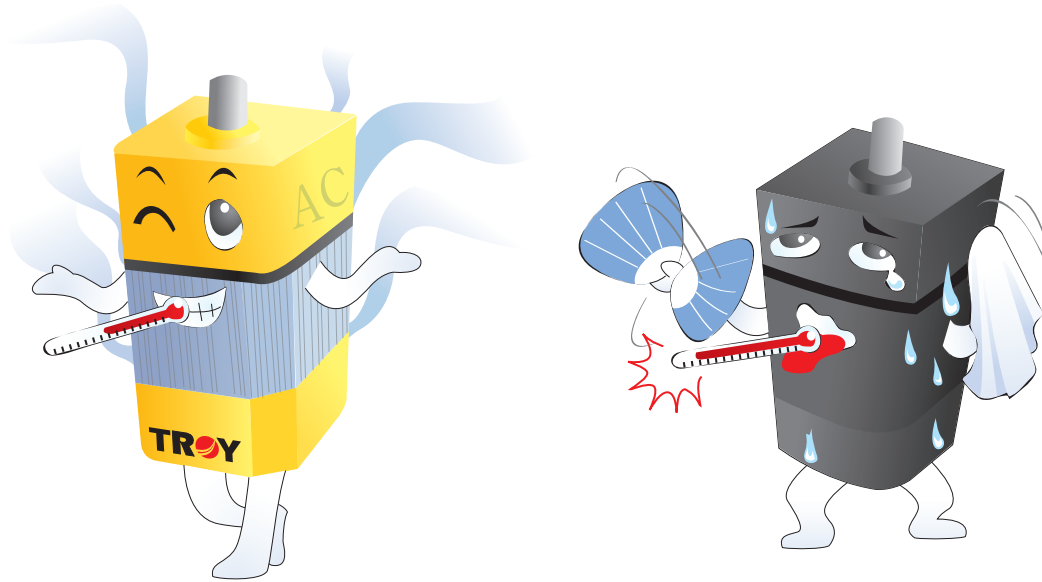


China patent



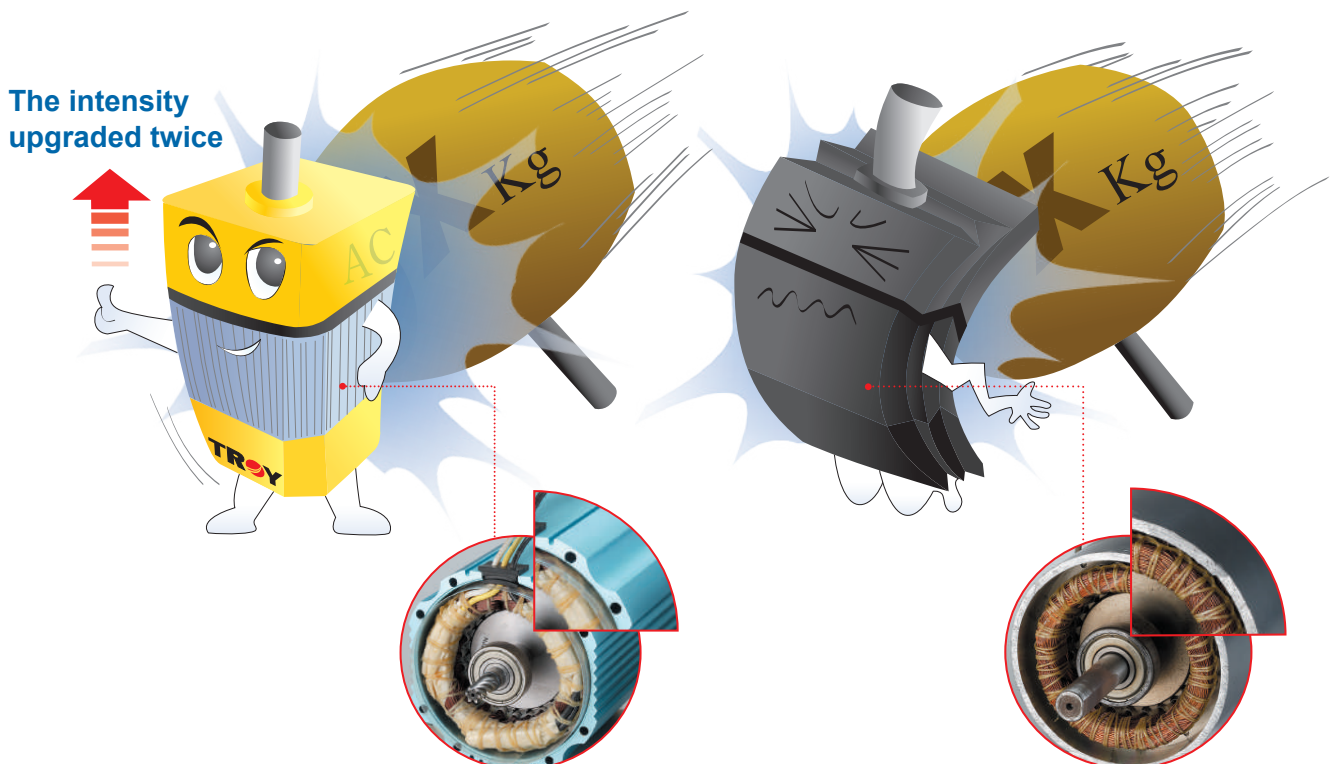
# Certificate

## Features 1 Excellent Heat Dissipation Effect



- Unique case design and special surface treatment to accelerate heat dissipation.

## Features 2 The Intensity of Construction Upgraded Double



- Intensifying design of **TROY** motor and the intensity upgraded double.

## Features 3

The Maximum Permissible Torque Can Reach to 40 Nm



- The maximum permissible 40Nm when 9A high intensity Gearbox is attached.

## Features 4

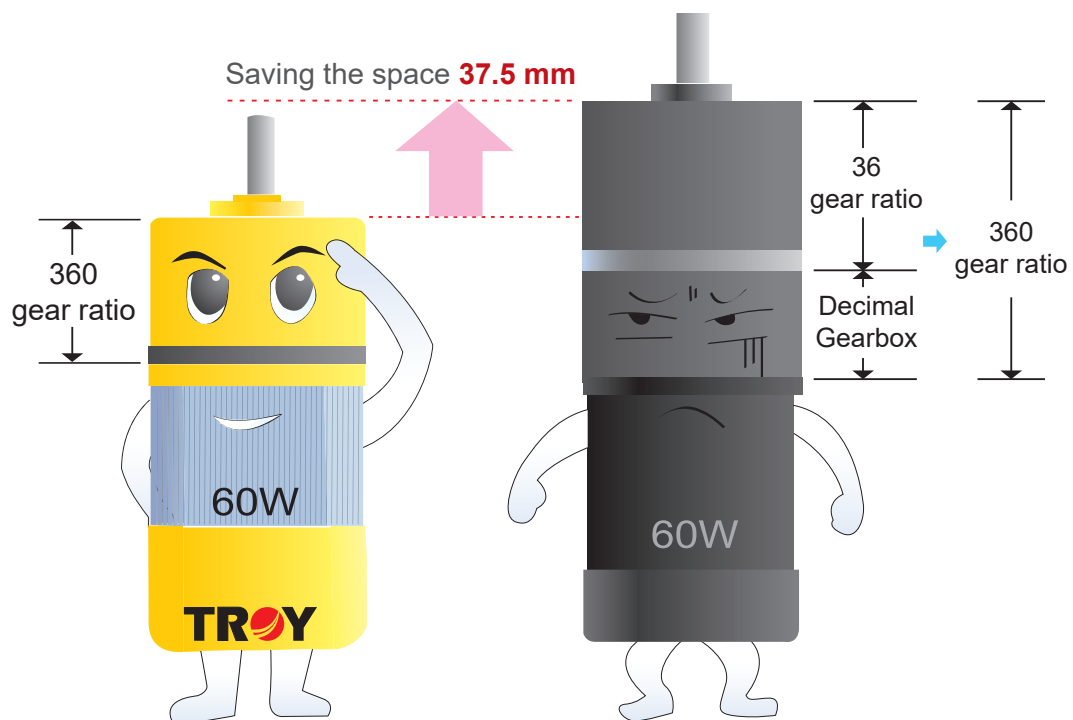
Greaseproof, Watertight, Dust-Resistance



- The AC Induction Motor conform to the IEC standard IP54. They are ideal for applications which need high performance with safety.

## Features 5

Saving the Spaces

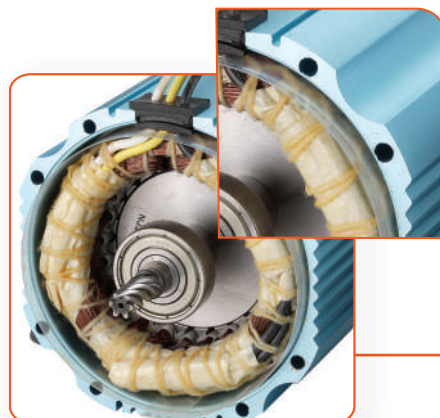


- The innovative design of Gearbox with high gear ratio which can save the space that middle Gearbox attached.



### Innovation

We have professional experience in making brushless motor. At the same time we aimed at the shortcomings of AC induction motor in the market. What we want you to be surprised by the various purposes from AC induction motor is our reforming and designing with innovation.

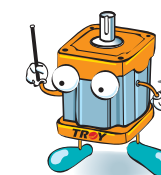


### Motor Construction of Intensifying Type

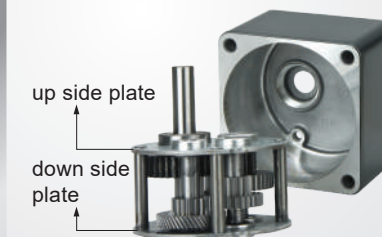
The motor case and the housing of motor rear made by aluminum which strengthened. The intensity of structure of the motor could be upgrade double. We can meet Your needs for high output torque and high intensity of construction.

### New Color

Our color of motor is different from the common color-black and gray. We introduced the color of Europe products and we want to break through the traditional appearance and bring a colorful new vision to you.



### Traditional Gearbox



The plate connected by rivet X 4pcs and the intensity of structure fragile.

### The Gearbox of High Intensity Type

All series of gearbox case and bearing are made by aluminum. The load structure of gear wheel was strengthened and attached with the powerful gear wheel. The max permissible torque can achieve to 40 Nm which can fit your needs – High output torque and high permissible intensity of the gearbox.

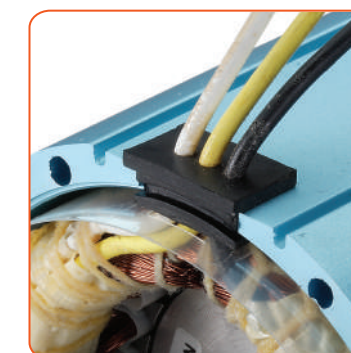
### Low Temperature

- ◆ The motor case adopts all-wrapped wavy type with thermal solution key groove and anodizing which can help the thermal solution more quickly.
- ◆ The blades of motor 60W/90W designed specially. Not only increase the flow of air, but also decrease the noise and temperature.



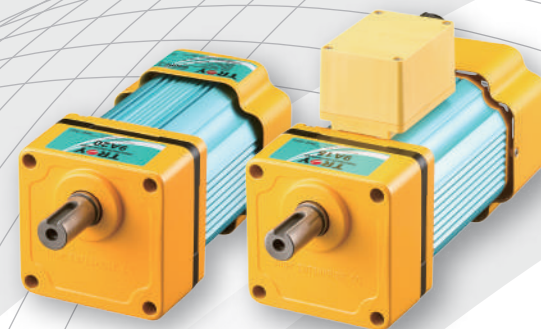
### Excellent Design - Watertight Greaseproof, Dust-Resistant

O-ring employed at joint of motor case / shaft. The motor lead wires part we used a clip to seal, which can prevent the grease and water permeate.



... Quality, Technic, Service





**AC Induction Motor**  
Lead Wire Type · Terminal Box Type



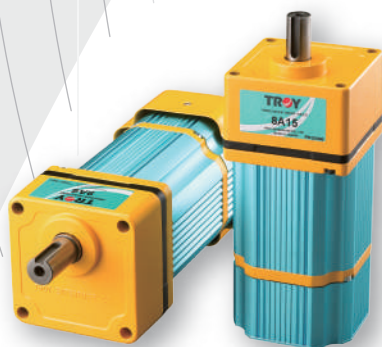
**AC Reversible Motor**  
Lead Wire Type · Terminal Box Type



**Torque Motor**



**Electromagnetic Brake Motor**



**Speed Control Motor**  
Separated Type



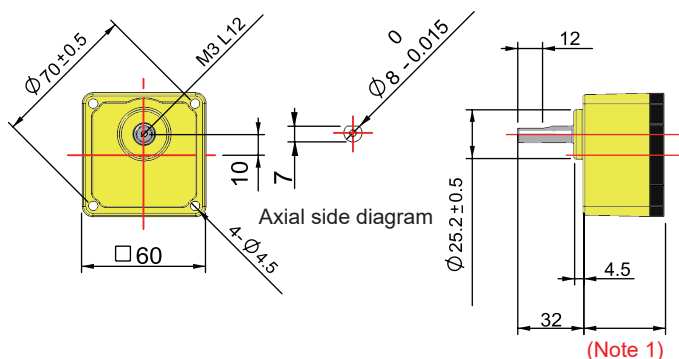
**Speed Control Motor**  
Component Package Type



### ■ Dimension of Shaft Ø8, Ø10, Ø12, Ø15

Model: 6A□N with Shaft NØ8

Unit : mm

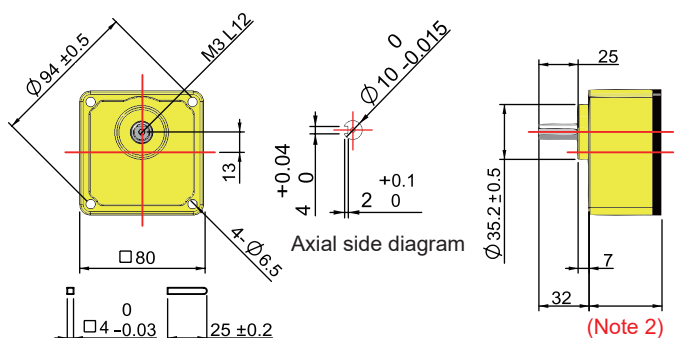


\*(Note 1)

6A□N Gearbox Length/Weight		
Gearbox's Model	Length (mm)	Weight (g)
6A3N~6A100N	$39.5 \pm 0.5$	400
6A120N~6A360N	$43.5 \pm 0.5$	440

Model: 8A□N with Shaft NØ10

Unit : mm

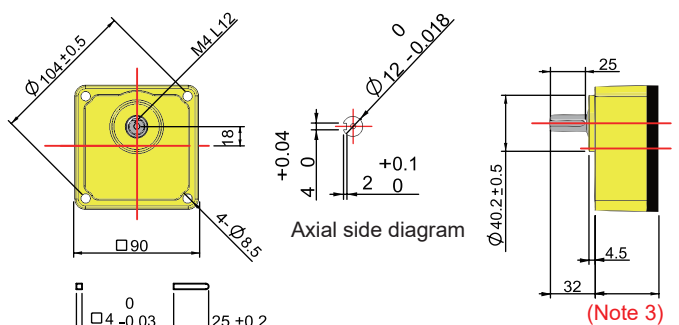


\*(Note 2)

8A□N Gearbox Length/Weight		
Gearbox's Model	Length (mm)	Weight (g)
8A3N~8A100N	$46.5 \pm 0.5$	830
8A120N~8A360N	$50.5 \pm 0.5$	890

Model: 9A□N with Shaft NØ12

Unit : mm

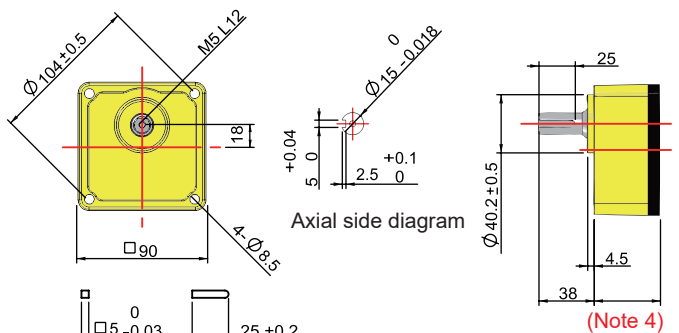


\*(Note 3)

9A□N Gearbox Length/Weight		
Gearbox's Model	Length (mm)	Weight (g)
9A3N~9A20N	$45.5 \pm 0.5$	1120
9A25N~9A100N	$58.5 \pm 0.5$	1470
9A120N~9A360N	$64.5 \pm 0.5$	1560

Model: 9A□U with Shaft NØ15

Unit : mm



\*(Note 4)

9A□U Gearbox Length/Weight		
Gearbox's Model	Length (mm)	Weight (g)
9A3U~9A20U	$45.5 \pm 0.5$	1150
9A25U~9A100U	$58.5 \pm 0.5$	1500
9A120U~9A360U	$64.5 \pm 0.5$	1590

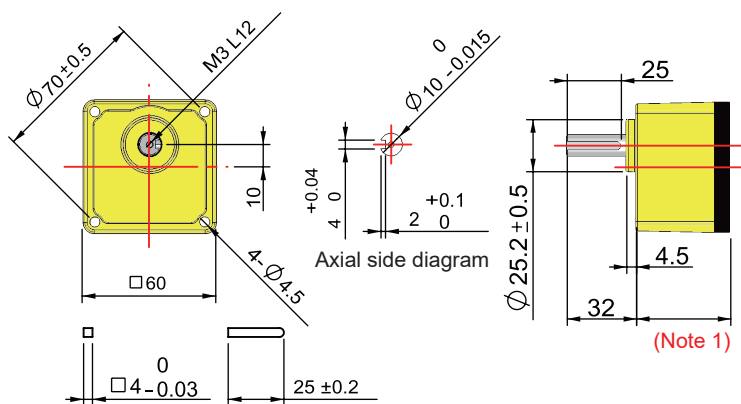
\* The figure above dimension tolerance values are not labeled a general machining tolerances, the control mode, refer to P.8, others have marked tolerance values according to the drawing labeled based.



### ■ Dimension of Shaft Ø10, Ø15, Ø18

Model: 6A□ with Shaft Ø10

Unit : mm



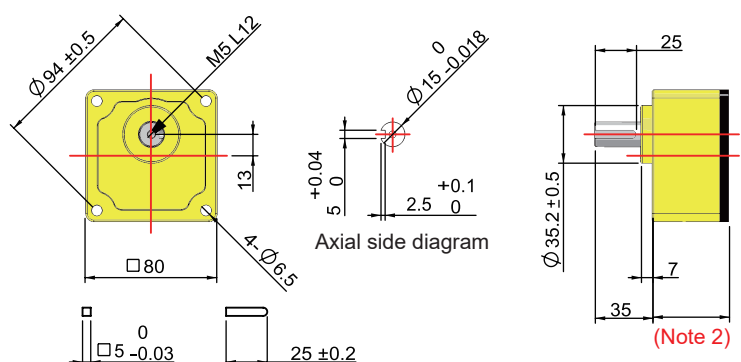
\*(Note 1)

6A□ Gearbox Length/Weight

Gearbox's Model	Length (mm)	Weight (g)
6A3~6A100	39.5	400
6A120~6A360	43.5	440

Model: 8A□ with Shaft Ø15

Unit : mm



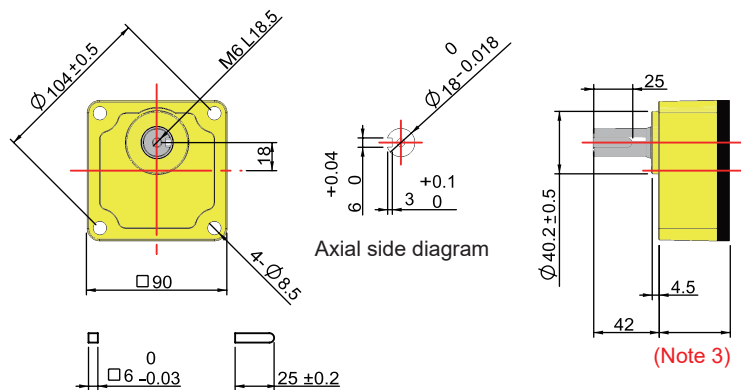
\*(Note 2)

8A□ Gearbox Length/Weight

Gearbox's Model	Length (mm)	Weight (g)
8A3~8A100	46.5	880
8A120~8A360	50.5	940

Model: 9A□ with Shaft Ø18

Unit : mm



\*(Note 3)

9A□ Gearbox Length/Weight

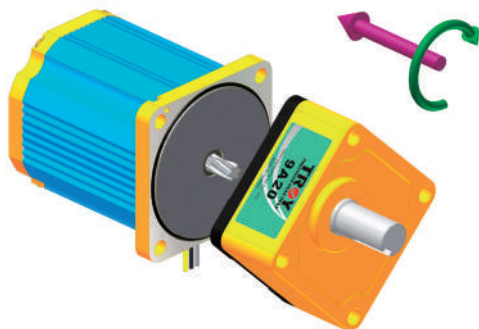
Gearbox's Model	Length (mm)	Weight (g)
9A3~9A20	45.5	1170
9A25~9A100	58.5	1520
9A120~9A360	64.5	1610

\* The figure above dimension tolerance values are not labeled a general machining tolerances, the control mode, refer to P.8, others have marked tolerance values according to the drawing labeled based.

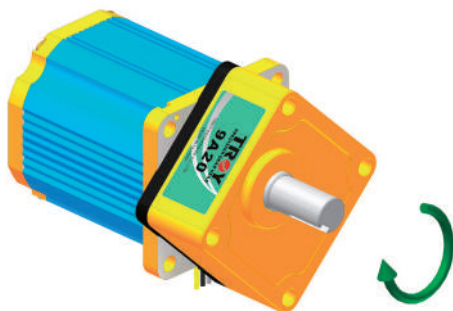
## Connection of Motor and Gearbox

- Please install the Motor and Gearbox as the following diagram. When installing the Motor with Gearbox, please avoid the gear part of Motor shaft to collided the metal plate or gear.

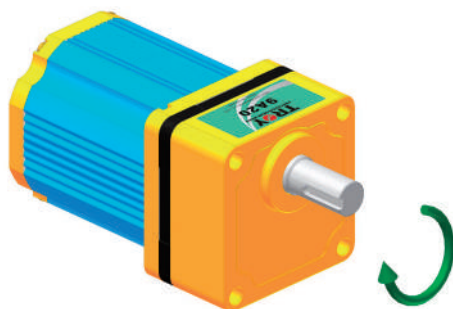
(Step 1) The distance between the motor and Gearbox around 35mm, 45°included angle.



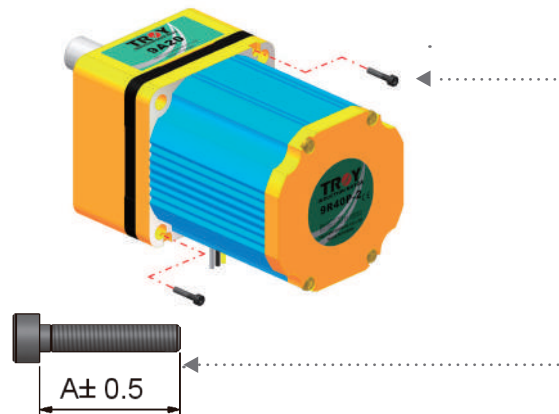
(Step 2) Gearbox connected with Motor in clockwise direction, 35°included angle.



(Step 3) Gearbox face to the Motor flange and rotated in clockwise direction and make sure that Motor and Gearbox connected already.



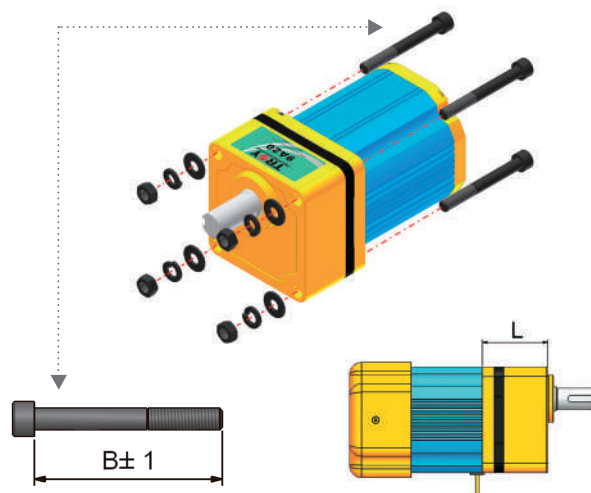
(Step 4) Using screws x 2 pcs(attachment) to secure the Motor and Gearbox.



Model	Screw Specs	Length (A) mm
6A□(N)	M2P0.4	8
8A□(N)	M3P0.5	8
9A□(N)	M3P0.5	12

© Mounting small screws are included with gearbox.

(Step 5) "Installation of mounting plate": Securing the Motor and Gearbox with screws x 4pcs.



Model	Screw Specs	Screw Length	Gearbox+ Motor Bracket
		(B)mm	(L)mm
6A3(N)~6A100(N)	M4P0.7	60	47.5
6A120(N)~6A360(N)		70	51.5
8A3(N)~8A100(N)	M6P1.0	70	54.5
8A120(N)~8A360(N)		75	58.5
9A3(N)~9A20(N)	M8P1.25	75	55.5
9A25(N)~9A100(N)		90	68.5
9A120(N)~9A360(N)		95	74.5

© Mounting screws are included with gearbox.



### 1. **CE** : Europe Safety Certification



The machine selling to the Europe must accordance with Europe safety standards and mark on the CE or TÜV.

### 2. **cTUVus** : USA and Canadian Safety Certification



Regconized by cTUVus Rheinland and indicated the product meets American & Canadian safety requirements. The product that can selling to the USA and CANADA .

### 3. **CCC** : China Compulsory Certification System Certificated



All the products import / export to the China for selling or producing. They must accordance with CCC certificated and marked on CCC.

### 4. **RoHS** : Restriction of Hazardous Substances



RoHS, the European Union Directive 2002/95/EC, on the restriction of the use of certain hazardous substance apply to any equipment for use or import into an EU member state beginning July 2006. The restricted substance include: Lead(Pb), Mercury(Hg), Cadmium(Cd), hexavalent Chromium Cr(VI), Polybrominated biphenyls(PBBs) and Polybrominated diphenyl ethers(PBDEs) must conform to the maximum concentration value.

(Request for the RoHS certification, please contact with the local seller.)

### 5. **IP54** : IP(Ingress Protection) : ratings are defined as levels of sealing effectiveness of electrical enclosures against intrusion from foreign bodies (tools, dirt etc) and moisture.

**IP5X** : Protected against dust under normal condition that may harm equipment.

**IPX4** : Describes the level of protection from liquids, distance of 300-500mm and the direction of the turn on the water speed of 10 liters / min for 10 minutes.

### 6. **TP** : Built-in Overheat Protection Device (Auto Return Type)

Overheat protection ON :  $120^{\circ}\text{C} \pm 8^{\circ}\text{C}$

Overheat protection OFF :  $71.5^{\circ}\text{C} \pm 4^{\circ}\text{C}$

When Motor because of some reason to caused the overheat. The protection device activated and Motor stop run. After the temperature drop, the protect device off and Motor return to run. Please turn off the power before inspection.



(1)



(2)



(3)



(4)



(5)

### ■ Precaution for Motor Use and Install

1. Motor: Ambient tempertaure -10~+50°C (Single phase and 3 phase 220V / 230V: -10~+40°C), ambient humidity 85% or less. Controller: Ambient temperature 0~+40°C, ambient humidity 85% or less.
2. Area not exposed to direct sun and free from excessive water, oil, dust.
3. Area not subject to continuous vibration or excessive shocks and free from excessive corrosive gas, flammable gas.
4. Installation: Motor can install at horizontal or vertical direction.
5. When connecting a load to the Motor, align the centers of the Motor's output shaft and load shaft. The improper align will cause the vibration and shorten the life time of both Motor and Gearbox. More further will cause the mechanical fatigue and damage.
6. When install the coupling, pulley, gear onto the shaft of Motor or Gearbox. Don't apply excessive force by using a hammer or similar tool.
7. Connection with Load  
 Motor shaft: Securing it with 2 screws through the mounting holes provided and become 90° then t secure the machinery on the shaft tightly.  
 Gearbox shaft: It tightened by key slot and designed by tolerance h7. When installing the machinery please reserve the "Parallel Key" for assemble and secure the machinery with screws on the shaft.
8. The dimensions which are not marked tolerance values belong to general tolerance. The reference guideline figure of processing general tolerance is as below :

Standard Tolerance Grades IT14

Dimension	Tolerance Value
>0	0.3
>6	0.5
>30	0.7
>80	0.9
>120	1.0
>180	1.2
>250	1.3
>315	1.4
>400	1.6
>1000	2.0

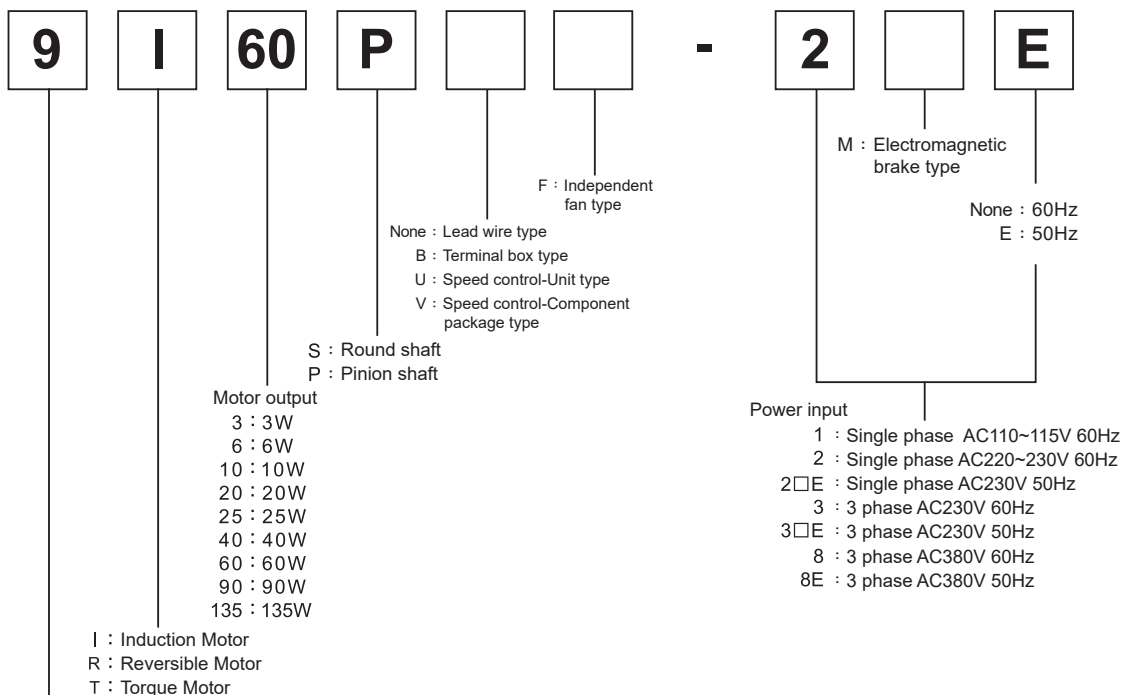
Unit : mm

\*For more details please refer to the "Motor Dimension".

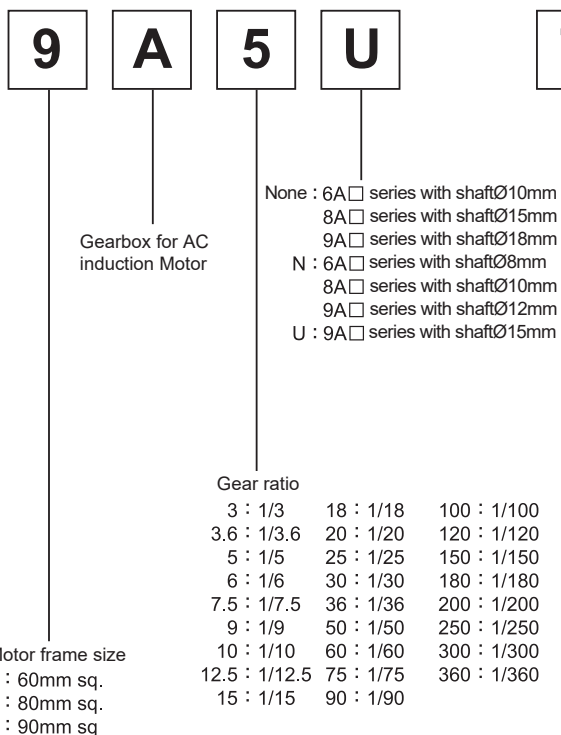
\*The product is subject to design modification for performance improvement without prior notice.  
 For more details please contact with your local seller.



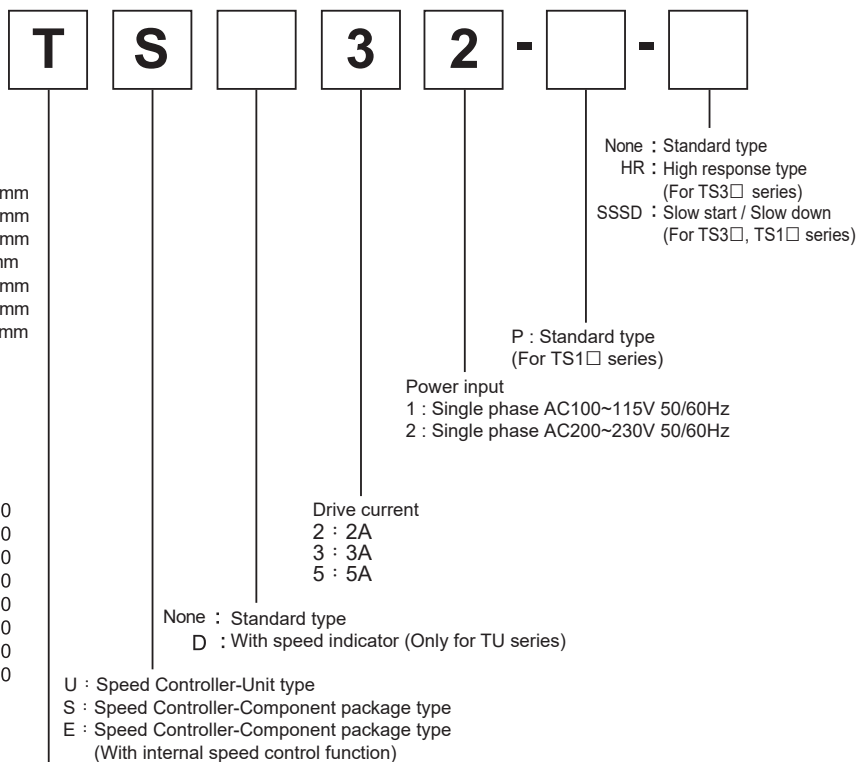
### Motor



### Gearbox







### Controller





### Specs

Motor Output		6W							
Round Shaft		6R6S-1M		6R6S-2M		6I6S-3M		6R6S-2ME	6I6S-3ME
Pinion Shaft		6R6P-1M		6R6P-2M		6I6P-3M		6R6P-2ME	6I6P-3ME
Specification Certification									
Motor	Capacity of Capacitor(μF)	3.5		0.8		—		0.6	—
	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Three phase 230		Single phase 230	Three phase 230
	Power Frequency (Hz)	60						50	
	Rated Current (A)	0.29	0.30	0.13	0.14	0.10		0.15	0.12
	Starting Torque (Nm)	0.04		0.04		0.04		0.05	0.05
	Rated Torque (Nm)	0.04		0.04		0.04		0.05	0.05
	Rated Speed (r/min)	1450		1550		1500		1200	1200
	Permissible Inertia (GD <sup>2</sup> )	0.25 kgcm <sup>2</sup>							
	Ambient Temperature	Single phase 110V/115V : -10~+50℃；Single phase 220V/230V: -10~+40℃							
	Ambient Humidity	Max.85%RH							
Braker	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230	
	Power Frequency (Hz)	60						50	
	Consumption Current (A)	0.08						0.08	
	Consuption Power (W)	8							
	Static Friction Torque (Nm)	0.3							

※ 1 Nm = 10.19716 Kgcm

※ 6R6□-□M(E) holding torque is 50gcm(but at the initial the holding torque may lower than 50gcm); over rotation around 4 rev/min(reference value).

### 6R6P-□M(E)/6I6P-3M(E)+6A□ Series Gearbox Specs & Permissible Torque / Permissible Inertial Load(GD<sup>2</sup>)When Gearbox Attached

Gear Ratio			3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
60 Hz	Rotation Speed (r/min)		600	500	360	300	240	200	180	144	120	100	90	72	60
	Permissible Torque(Nm)	-1M,-2M,-3M Type	0.11	0.14	0.19	0.23	0.28	0.34	0.38	0.47	0.57	0.68	0.8	0.9	1.1
50 Hz	Rotation Speed (r/min)		500	417	300	250	200	167	150	120	100	83	75	60	50
	Permissible Torque(Nm)	-2ME,-3ME Type	0.14	0.17	0.23	0.28	0.34	0.41	0.46	0.57	0.69	0.83	0.9	1.1	1.3
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			2.3	3.3	6.3	9	14	20.3	25	39	56.3	81	100	156	225

Gear Ratio			36	50	60	75	90	100	120	150	180	200	250	300	360
60 Hz	Rotation Speed (r/min)		50	36	30	24	20	18	15	12	10	9	7	6	5
	Permissible Torque(Nm)	-1M,-2M,-3M Type	1.3	1.8	2.2	2.7	3.3	3.6	4.1	5.1	6				
50 Hz	Rotation Speed (r/min)		42	30	25	20	17	15	13	10	8	8	6	5	4
	Permissible Torque(Nm)	-2ME,-3ME Type	1.6	2.2	2.6	3.3	3.9	4.4	5	6					
Permissible inertia load GD² (kgcm²)			324	625					625						

※ 1 : Gearbox 6A□series, please enter the gear ratio 3~360 in the box□.

※ 2 : 60Hz: The max synchronous speed is 1800r/min; 50Hz: The max synchronous speed is 1500r/min.

※ 3 : "Permissible torque" It refers to the value of load torque driven by the Gearbox's output. -1M type: It indicates 6R6P-□M is single phase 110V/115V 60Hz; -2M type: Single phase 220V/230V 60Hz; -2ME type: Single phase 230V 50Hz; the other types please refer to the above table.

※ 4 : A colored background indicates gear shaft rotation in the opposite direction as the motor shaft. No marking indicates rotation in the same direction.

※ 5 : 1 Nm = 10.19716 Kgcm

※ 6 : The Gearboxes of all series have certification.



## ■ Permissible Overhung Load / Permissible Thrust Load

### Round Shaft Type

Model	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
	10mm from shaft end	20mm from shaft end	
6R6S-□M(E) 6I6S-3M(E)	5	11	Permissible thrust load do not exceed the weight of Motor 1/2. If exceed the rated weight will decrease the service life of Motor. Please using indirect transmission machinery such as coupling, belt, chain. As the applications which will need the thrust load.

### Pinion Shaft Type(Gearbox Attached)

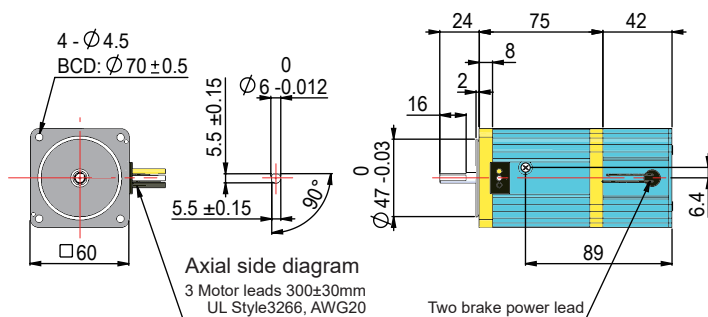
Model	Gear Ratio	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
		10mm from shaft end	20mm from shaft end	
6R6P-□M(E) 6I6P-3M(E)	3, 3.6, 5	10	15	3
	6, 7.5, 9, 10, 12.5, 15, 18, 20	15	20	
	25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180, 200, 250, 300, 360	20	30	

## ■ Dimensions

Unit : mm

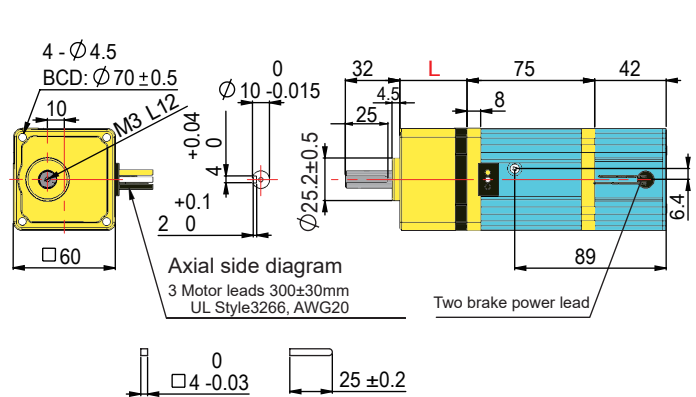
### Round Shaft Type 6R6S-□M(E) / 6I6S-3M(E)

Motor Weight : 1410g

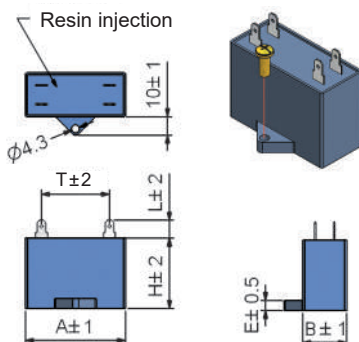


### Pinion Shaft Type 6R6P-□M(E) / 6I6P-3M(E)+6A□

Motor Weight : 1400+W



## ■ Capacitor Dimensions (Single phase motors only)



\* The figure above dimension tolerance values are not labeled a general machining tolerances, the control mode, refer to P.8, others have marked tolerance values according to the drawing labeled based.

\* 6A pinion shaft type 6A3~360, the spec of Gearbox "L" length and weight "W" as following :






6A□Gearbox Length/Weight		
Model	Length (mm)	Weight (g)
6A3~6A100	39.5	400
6A120~6A360	43.5	440

※ We also have Gearbox 6A□N with shaft Ø8. For details please refer to the P.4.

Capacity of capacitor (μF/VAC)	A	B	H	L	T	E
3.5/250	37	14	23	10	24	4
0.8/450	37	14	23	8	24	4
0.6/450	37	14	23	7	24	4



### ■ Specs

Motor Output		25W									
Round Shaft		8R25S-1M		8R25S-2M		8I25S-3M		8R25S-2ME		8I25S-3ME	
Pinion Shaft		8R25P-1M		8R25P-2M		8I25P-3M		8R25P-2ME		8I25P-3ME	
Specification Certification											
Motor	Capacity of Capacitor(μF)	8		2		—		1.5		—	
	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Three phase 230		Single phase 230		Three phase 230	
	Power Frequency (Hz)	60						50			
	Rated Current (A)	0.69	0.70	0.32	0.33	0.23		0.26		0.28	
	Starting Torque (Nm)	0.14		0.14		0.17		0.16		0.22	
	Rated Torque (Nm)	0.17		0.17		0.17		0.21		0.22	
	Rated Speed (r/min)	1500		1500		1500		1250		1200	
	Permissible Inertia (GD <sup>2</sup> )	1.2 kgcm <sup>2</sup>									
	Ambient Temperature	Single phase 110V/115V : -10~+50℃ ; Single phase 220V/230V, Three phase 220V/230V: -10~+40℃									
	Ambient Humidity	Max.85%RH									
Braker	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230			
	Power Frequency (Hz)	60						50			
	Consumption Current (A)	0.08						0.08			
	Consumption Power (W)	8									
	Static Friction Torque (Nm)	0.3									

※ 8R25□-□M(E) holding torque is 150gcm(but at the initial the holding torque may lower than 150gcm); over rotation around 5 rev/min(reference value).

### ■ 8R25P-□M(E)/8I25P-3M(E)+8A□Series Gearbox Specs & Permissible Torque / Permissible Inertial Load(GD<sup>2</sup>)When Gearbox Attached

Gear Ratio			3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
60 Hz	Rotation Speed (r/min)		600	500	360	300	240	200	180	144	120	100	90	72	60
	Permissible Torque(Nm)	-1M,-2M Type	0.46	0.55	0.77	0.92	1.15	1.38	1.53	1.91	2.3	2.75	3.1	3.7	4.4
		-3M Type	0.46	0.55	0.77	0.92	1.15	1.38	1.53	1.91	2.3	2.75	3.1	3.7	4.4
50 Hz	Rotation Speed (r/min)		500	417	300	250	200	167	150	120	100	83	75	60	50
	Permissible Torque(Nm)	-2ME Type	0.56	0.67	0.93	1.11	1.39	1.67	1.85	2.32	2.78	3.34	3.7	4.4	5.3
		-3ME Type	0.59	0.71	0.99	1.19	1.49	1.78	1.98	2.48	2.97	3.56	3.96	4.7	5.7
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			10.8	15.6	30	43.2	67.5	97.2	120	187.5	270	389	480	750	1080
Gear Ratio			36	50	60	75	90	100	120	150	180	200	250	300	360
60 Hz	Rotation Speed (r/min)		50	36	30	24	20	18	15	12	10	9	7	6	5
	Permissible Torque(Nm)	-1M,-2M Type	5.3	7.3	8.8	11	13.2	14.6	15						
		-3M Type	5.3	7.3	8.8	11	13.2	15	15						
50 Hz	Rotation Speed (r/min)		42	30	25	20	17	15	13	10	8	8	6	5	4
	Permissible Torque(Nm)	-2ME Type	6.4	8.9	10.6	13.3	15		15						
		-3ME Type	6.8	9.5	11.4	14.2	15		15						
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			1555	3000					3000						

※1 : Gearbox 8A□series, please enter the gear ratio 3~360 in the box□.

※2 : 60Hz: The max synchronous speed is 1800r/min; 50Hz: The max synchronous speed is 1500r/min.

※3 : "Permissible torque" It refers to the value of load torque driven by the Gearbox's output. -1M type: It indicates 8R25P-□M is single phase 110V/115V 60Hz; -2M type: Single phase 220V/230V 60Hz; -2ME type: Single phase 230V 50Hz; the other types please refer to the above table.

※4 : A colored   background indicates gear shaft rotation in the opposite direction as the motor shaft. No marking indicates rotation in the same direction.

※5 : 1 Nm = 10.19716 Kgcm

※6 : The Gearboxes of all series have certification.

## ■ Permissible Overhung Load / Permissible Thrust Load

Round Shaft Type

Model	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
	10mm from shaft end	20mm from shaft end	
8R25S-□M(E) 8I25S-3M(E)	9	14	Permissible thrust load do not exceed the weight of Motor 1/2. If exceed the rated weight will decrease the service life of Motor. Please using indirect transmission machinery such as coupling, belt, chain. As the applications which will need the thrust load.

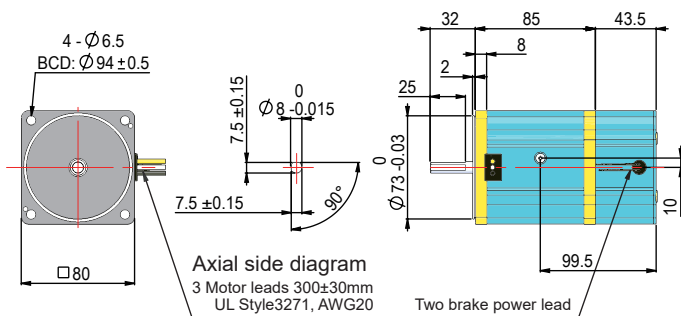
Pinion Shaft Type(Gearbox Attached)

Model	Gear Ratio	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
		10mm from shaft end	20mm from shaft end	
8R25P-□M(E) 8I25P-3M(E)	3, 3.6, 5	20	25	5
	6, 7.5, 9, 10, 12.5, 15, 18, 20	30	35	
	25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180, 200, 250, 300, 360	45	55	

## ■ Dimensions

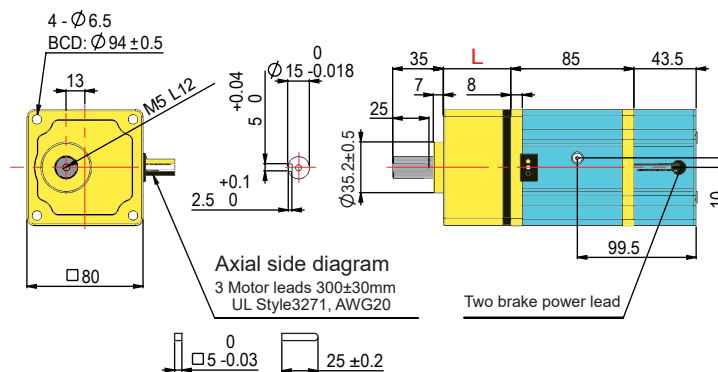
Round Shaft Type 8R25S-□M(E) / 8I25S-3M(E)

Motor Weight : 2700g

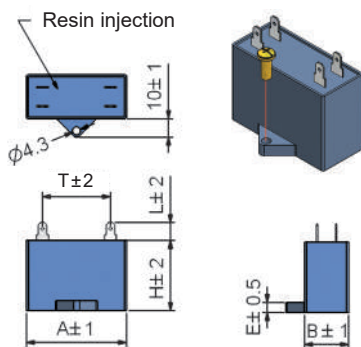


Pinion Shaft Type 8R25P-□M(E) / 8I25P-3M(E)+8A□

Motor Weight : 2680+W



## ■ Capacitor Dimensions (Single phase motors only)



\* 8A pinion shaft type 8A3~360, the spec of Gearbox "L" length and weight "W" as following :

8A□Gearbox Length/Weight		
Model	Length (mm)	Weight (g)
8A3~8A100	46.5	880
8A120~8A360	50.5	940

※ We also have Gearbox 8A□N with shaft Ø10. For details please refer to the P.4.






Capacity of Capacitor (μF/VAC)	A	B	H	L	T	E
8/250	48	19	29	10	34	5
2/450	38	20	29	8	24	4.5
1.5/450	38	17	26	9	24	5

\* The figure above dimension tolerance values are not labeled a general machining tolerances, the control mode, refer to P.8, others have marked tolerance values according to the drawing labeled based.





### Specs

Motor Output		40W									
Round Shaft		9R40S-1M		9R40S-2M		9I40S-3M		9R40S-2ME		9I40S-3ME	
Pinion Shaft		9R40P-1M		9R40P-2M		9I40P-3M		9R40P-2ME		9I40P-3ME	
Specification Certification											
Motor	Capacity of Capacitor(μF)	12		3.5		—		2.5		—	
	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Three phase 230		Single phase 230		Three phase 230	
	Power Frequency (Hz)	60						50			
	Rated Current (A)	0.97	1.00	0.59	0.61	0.36		0.38		0.42	
	Starting Torque (Nm)	0.27		0.27		0.27		0.32		0.45	
	Rated Torque (Nm)	0.28		0.28		0.27		0.33		0.35	
	Rated Speed (r/min)	1450		1450		1500		1250		1200	
	Permissible Inertia (GD <sup>2</sup> )	3 kgcm <sup>2</sup>									
	Ambient Temperature	Single phase 110V/115V : -10~+50℃ ; Single phase 220V/230V, Three phase 220V/230V: -10~+40℃									
	Ambient Humidity	Max.85%RH									
Braker	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230			
	Power Frequency (Hz)	60						50			
	Consumption Current (A)	0.09						0.09			
	Consumption Power (W)	9									
	Static Friction Torque (Nm)	0.5									

※ 9R40□-□M(E) holding torque is 400gcm(but at the initial the holding torque may lower than 400gcm); over rotation around 6 rev/min(reference value).

### 9R40P-□M(E)/9I40P-3M(E)+9A□Series Gearbox Specs & Permissible Torque / Permissible Inertial Load(GD<sup>2</sup>)When Gearbox Attached

Gear Ratio			3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
60 Hz	Rotation Speed (r/min)		600	500	360	300	240	200	180	144	120	100	90	72	60
	Permissible Torque(Nm)	-1M,-2M Type	0.77	0.92	1.28	1.53	1.92	2.3	2.56	3.2	3.83	4.6	5.1	6.1	7.3
		-3M Type	0.73	0.87	1.22	1.46	1.82	2.19	2.43	3.04	3.65	4.37	4.86	5.8	7
50 Hz	Rotation Speed (r/min)		500	417	300	250	200	167	150	120	100	83	75	60	50
	Permissible Torque(Nm)	-2ME Type	0.89	1.07	1.49	1.78	2.23	2.67	2.97	3.71	4.46	5.35	5.9	7.1	8.5
		-3ME Type	0.95	1.13	1.58	1.89	2.36	2.84	3.15	3.94	4.73	5.67	6.3	7.5	9
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			27	39	75	108	169	243	300	469	675	972	1200	1875	2700
Gear Ratio			36	50	60	75	90	100	120	150	180	200	250	300	360
60 Hz	Rotation Speed (r/min)		50	36	30	24	20	18	15	12	10	9	7	6	5
	Permissible Torque(Nm)	-1M,-2M Type	8.8	12.2	14.7	18.3	22	24.4	27.6	34.5	40				
		-3M Type	8.4	11.6	13.9	17.4	20.9	23.2	26.2	32.8	39.4	40			
50 Hz	Rotation Speed (r/min)		42	30	25	20	17	15	13	10	8	8	6	5	4
	Permissible Torque(Nm)	-2ME Type	10.2	14.2	17	21.3	25.5	28.4	32.1	40					
		-3ME Type	10.8	15.1	18.1	22.6	27.1	30.1	34	40					
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			3888	7500					7500						

※ 1 : Gearbox 9A□series, please enter the gear ratio 3~360 in the box□.

※ 2 : 60Hz: The max synchronous speed is 1800r/min; 50Hz: The max synchronous speed is 1500r/min.

※ 3 : "Permissible torque" It refers to the value of load torque driven by the Gearbox's output. -1M type: It indicates 9R40P-□M is single phase 110V/115V 60Hz; -2M type: Single phase 220V/230V 60Hz; -2ME type: Single phase 230V 50Hz; the other types please refer to the above table.

※ 4 : A colored   background indicates gear shaft rotation in the opposite direction as the motor shaft. No marking indicates rotation in the same direction.






※ 5 : 1 Nm = 10.19716 Kgcm

※ 6 : The Gearboxes of all series have certification.





### Specs

Motor Output		60W									
Round Shaft		9R60S-1M		9R60S-2M		9I60S-3M		9R60S-2ME		9I60S-3ME	
Pinion Shaft		9R60P-1M		9R60P-2M		9I60P-3M		9R60P-2ME		9I60P-3ME	
Specification Certification		 <b>IP54</b>		 <b>IP54</b>		 <b>IP54</b>		 <b>IP54</b>		 <b>IP54</b>	
Motor	Capacity of Capacitor(μF)	20		5		—		4		—	
	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Three phase 230		Single phase 230		Three phase 230	
	Power Frequency (Hz)	60						50			
	Rated Current (A)	1.49	1.53	0.75	0.78	0.80		0.83		1.00	
	Starting Torque (Nm)	0.4		0.4		0.56		0.47		0.7	
	Rated Torque (Nm)	0.42		0.42		0.43		0.51		0.54	
	Rated Speed (r/min)	1500		1500		1450		1200		1150	
	Permissible Inertia (GD <sup>2</sup> )	4.6 kgcm <sup>2</sup>									
	Ambient Temperature	Single phase 110V/115V : -10~+50℃ ; Single phase 220V/230V, Three phase 220V/230V: -10~+40℃									
	Ambient Humidity	Max.85%RH									
Braker	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230			
	Power Frequency (Hz)	60						50			
	Consumption Current (A)	0.09						0.09			
	Consumption Power (W)	9									
	Static Friction Torque (Nm)	0.5									

※ 9R60□-□M(E) holding torque is 400gcm(but at the initial the holding torque may lower than 400gcm); over rotation around 6 rev/min(reference value).

### 9R60P-□M(E)/9I60P-3M(E)+9A□Series Gearbox Specs & Permissible Torque / Permissible Inertial Load(GD<sup>2</sup>)When Gearbox Attached

Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
60 Hz	Rotation Speed (r/min)	600	500	360	300	240	200	180	144	120	100	90	72	60
	Permissible Torque(Nm)													
	-1M,-2M Type	1.13	1.36	1.89	2.27	2.84	3.4	3.78	4.73	5.67	6.8	7.6	9	10.8
50 Hz	Rotation Speed (r/min)	500	417	300	250	200	167	150	120	100	83	75	60	50
	Permissible Torque(Nm)													
	-2ME Type	1.38	1.65	2.3	2.75	3.44	4.13	4.59	5.74	6.89	8.26	9.2	11	13.2
60 Hz	Rotation Speed (r/min)	42	30	25	20	17	15	13	10	8	8	6	5	4
	Permissible Torque(Nm)													
	-3ME Type	16.8	23.3	28	35	40	40							
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )		5962	11500					11500						

※1 : Gearbox 9A□series, please enter the gear ratio 3~360 in the box□.

※2 : 60Hz: The max synchronous speed is 1800r/min; 50Hz: The max synchronous speed is 1500r/min.

※3 : "Permissible torque" It refers to the value of load torque driven by the Gearbox's output. -1M type: It indicates 9R60P-□M is single phase 110V/115V 60Hz; -2M type: Single phase 220V/230V 60Hz; -2ME type: Single phase 230V 50Hz; the other types please refer to the above table.

※4 : A colored background indicates gear shaft rotation in the opposite direction as the motor shaft. No marking indicates rotation in the same direction.

※5 : 1 Nm = 10.19716 Kgcm

※6 : The Gearboxes of all series have certification.

## ■ Permissible Overhung Load / Permissible Thrust Load

### Round Shaft Type

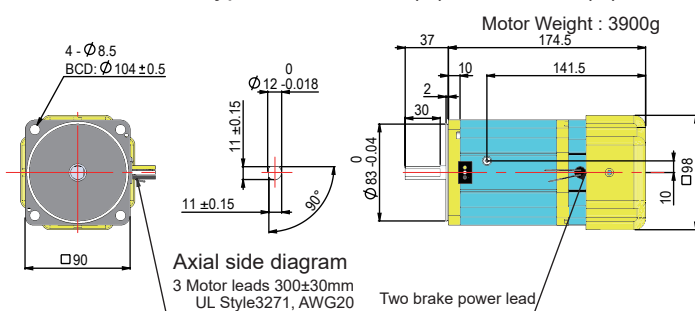
Model	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
	10mm from shaft end	20mm from shaft end	
9R60S-□M(E) 9I60S-3M(E)	24	27	Permissible thrust load do not exceed the weight of Motor 1/2. If exceed the rated weight will decrease the service life of Motor. Please using indirect transmission machinery such as coupling, belt, chain. As the applications which will need the thrust load.

### Pinion Shaft Type(Gearbox Attached)

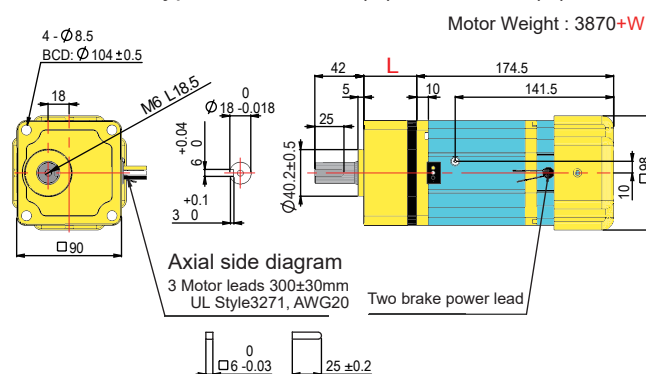
Model	Gear Ratio	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
		10mm from shaft end	20mm from shaft end	
9R60P-□M(E) 9I60P-3M(E)	3, 3.6, 5	50	60	15
	6, 7.5, 9, 10, 12.5, 15, 18, 20	60	70	
	25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180, 200, 250, 300, 360	70	80	

## ■ Dimensions

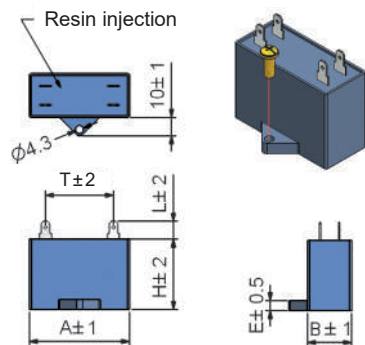
### Round Shaft Type 9R60S-□M(E) / 9I60S-3M(E)



### Pinion Shaft Type 9R60P-□M(E) / 9I60P-3M(E)+9A□



## ■ Capacitor Dimensions (Single phase motors only)



\* 9A pinion shaft type 9A3~360, the spec of Gearbox "L" length and weight "W" as following :

9A□Gearbox	Length/Weight	
Model	Length (mm)	Weight (g)
9A3~9A20	45.5	1170
9A25~9A100	58.5	1520
9A120~9A360	64.5	1610

※ We also have Gearbox 9A□U with shaft Ø15. For details please refer to the P.4.






Capacity of Capacitor (μF/VAC)	A	B	H	L	T	E
20/250	59	23	35	10	48	4.2
5/450	50	22	35	9	34	5
4/450	49	21	31.5	9	34	5

\* The figure above dimension tolerance values are not labeled a general machining tolerances, the control mode, refer to P.8, others have marked tolerance values according to the drawing labeled based.





### Specs

Motor Output		90W									
Round Shaft		9R90S-1M		9R90S-2M		9I90S-3M		9R90S-2ME		9I90S-3ME	
Pinion Shaft		9R90P-1M		9R90P-2M		9I90P-3M		9R90P-2ME		9I90P-3ME	
Specification Certification											
Motor	Capacity of Capacitor(μF)	30		7		—		6		—	
	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Three phase 230		Single phase 230		Three phase 230	
	Power Frequency (Hz)	60						50			
	Rated Current (A)	2.13	2.35	1.00	1.03	0.84		1.00		0.94	
	Starting Torque (Nm)	0.53		0.58		0.75		0.64		0.94	
	Rated Torque (Nm)	0.61		0.61		0.61		0.74		0.75	
	Rated Speed (r/min)	1500		1550		1500		1250		1250	
	Permissible Inertia (GD <sup>2</sup> )	4.6 kgcm <sup>2</sup>									
	Ambient Temperature	Single phase 110V/115V : -10~+50℃ ; Single phase 220V/230V, Three phase 220V/230V: -10~+40℃									
	Ambient Humidity	Max.85%RH									
Braker	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230			
	Power Frequency (Hz)	60						50			
	Consumption Current (A)	0.09						0.09			
	Consumption Power (W)	9									
	Static Friction Torque (Nm)	0.5									

※9R90□-□M(E) holding torque is 400gcm(but at the initial the holding torque may lower than 400gcm); over rotation around 6 rev/min(reference value).

### 9R90P-□M(E)/9I90P-3M(E)+9A□ Series Gearbox Specs & Permissible Torque / Permissible Inertial Load(GD<sup>2</sup>)When Gearbox Attached

Gear Ratio			3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
60 Hz	Rotation Speed (r/min)		600	500	360	300	240	200	180	144	120	100	90	72	60
	Permissible Torque(Nm)	-1M,-2M Type	1.65	1.98	2.75	3.3	4.12	4.94	5.5	6.86	8.24	9.88	11	13.1	15.7
		-3M Type	1.65	1.98	2.75	3.29	4.12	4.94	5.49	6.86	8.24	9.88	11	13.1	15.7
50 Hz	Rotation Speed (r/min)		500	417	300	250	200	167	150	120	100	83	75	60	50
	Permissible Torque(Nm)	-2ME Type	2	2.4	3.33	4	5	6	6.66	8.33	10	12	13.3	15.9	19.1
		-3ME Type	2.03	2.43	3.38	4.05	5.06	6.08	6.75	8.44	10.1	12.2	13.5	16.1	19.4
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			41	60	115	166	259	373	460	719	1035	1490	1840	2875	4140
Gear Ratio			36	50	60	75	90	100	120	150	180	200	250	300	360
60 Hz	Rotation Speed (r/min)		50	36	30	24	20	18	15	12	10	9	7	6	5
	Permissible Torque(Nm)	-1M,-2M Type	18.9	26.2	31.5	39.3	40		40						
		-3M Type	18.9	26.2	31.5	39.3	40		40						
50 Hz	Rotation Speed (r/min)		42	30	25	20	17	15	13	10	8	8	6	5	4
	Permissible Torque(Nm)	-2ME Type	22.9	31.8	38.2	40			40						
		-3ME Type	23.2	32.3	38.7	40			40						
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			5962	11500					11500						

※1 : Gearbox 9A□series, please enter the gear ratio 3~360 in the box□.

※2 : 60Hz: The max synchronous speed is 1800r/min; 50Hz: The max synchronous speed is 1500r/min.

※3 : "Permissible torque" It refers to the value of load torque driven by the Gearbox's output. -1M type: It indicates 9R90P-□M is single phase 110V/115V 60Hz; -2M type: Single phase 220V/230V 60Hz; -2ME type: Single phase 230V 50Hz; the other types please refer to the above table.

※4 : A colored   background indicates gear shaft rotation in the opposite direction as the motor shaft. No marking indicates rotation in the same direction.






※5 : 1 Nm = 10.19716 Kgcm

※6 : The Gearboxes of all series have certification.





### ■ Specs

Motor Output		135W									
Round Shaft		9R135S-1M		9R135S-2M		9I135S-3M		9R135S-2ME		9I135S-3ME	
Pinion Shaft		9R135P-1M		9R135P-2M		9I135P-3M		9R135P-2ME		9I135P-3ME	
Specification Certification											
Motor	Capacity of Capacitor(μF)	27		8		—		6		—	
	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Three phase 230		Single phase 230		Three phase 230	
	Power Frequency (Hz)	60						50			
	Rated Current (A)	2.30	2.35	1.30	1.35	1.00		1.20		1.25	
	Starting Torque (Nm)	0.60		0.60		1.00		0.60		1.30	
	Rated Torque (Nm)	0.85	0.90	0.85	0.90	0.95		0.90		1.10	
	Rated Speed (r/min)	1500		1550		1550		1250		1200	
	Permissible Inertia (GD²)	4.6 kgcm²									
	Ambient Temperature	Single phase 110V/115V : -10~+50℃ ; Single phase 220V/230V, Three phase 220V/230V: -10~+40℃									
	Ambient Humidity	Max.85%RH									
Braker	Power Input (V)	Single phase 110	Single phase 115	Single phase 220	Single phase 230	Single phase 220	Single phase 230	Single phase 230			
	Power Frequency (Hz)	60						50			
	Consumption Current (A)	0.09						0.09			
	Consumption Power (W)	9									
	Static Friction Torque (Nm)	0.5									

※9R135□-□M(E) holding torque is 400gcm(but at the initial the holding torque may lower than 400gcm); over rotation around 6 rev/min(reference value).

### ■ 9R135P-□M(E)/9I135P-3M(E)+9A□ Series Gearbox Specs & Permissible Torque / Permissible Inertial Load(GD<sup>2</sup>)When Gearbox Attached

Gear Ratio			3	3,6	5	6	7.5	9	10	12.5	15	18	20	25	30
60 Hz	Rotation Speed (r/min)		600	500	360	300	240	200	180	144	120	100	90	72	60
	Permissible Torque(Nm)	-1M,-2M Type	2.4	2.9	4.1	4.9	6.1	7.3	8.1	10.2	12.2	14.6	16.3	19.3	23.2
		-3M Type	2.6	3.1	4.3	5.1	6.4	7.7	8.6	10.7	12.9	15.4	17.2	20.4	24.4
50 Hz	Rotation Speed (r/min)		500	417	300	250	200	167	150	120	100	83	75	60	50
	Permissible Torque(Nm)	-2ME Type	2.4	2.9	4.1	4.9	6.1	7.3	8.1	10.2	12.2	14.6	16.3	19.3	23.2
		-3ME Type	3	3.6	5	6	7.5	8.9	9.9	12.4	14.9	17.9	19.9	23.6	28.3
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			41	60	115	166	259	373	460	719	1035	1490	1840	2875	4140
Gear Ratio			36	50	60	75	90	100	120	150	180	200	250	300	360
60 Hz	Rotation Speed (r/min)		50	36	30	24	20	18	15	12	10	9	7	6	5
	Permissible Torque(Nm)	-1M,-2M Type	27.8	38.6	40				40						
		-3M Type	29.3	40				40							
50 Hz	Rotation Speed (r/min)		42	30	25	20	17	15	13	10	8	8	6	5	4
	Permissible Torque(Nm)	-2ME Type	27.8	38.6	40				40						
		-3ME Type	34	40				40							
Permissible inertia load GD <sup>2</sup> (kgcm <sup>2</sup> )			5962	11500					11500						

※1 : Gearbox 9A□series, please enter the gear ratio 3~360 in the box□.

※2 : 60Hz: The max synchronous speed is 1800r/min; 50Hz: The max synchronous speed is 1500r/min.

※3 : "Permissible torque" It refers to the value of load torque driven by the Gearbox's output. -1M type: It indicates 9R135P-□M is single phase 110V/115V 60Hz; -2M type: Single phase 220V/230V 60Hz; -2ME type: Single phase 230V 50Hz; the other types please refer to the above table.

※4 : A colored   background indicates gear shaft rotation in the opposite direction as the motor shaft. No marking indicates rotation in the same direction.

※5 : 1 Nm = 10.19716 Kgcm

※6 : The Gearboxes of all series have certification.

## ■ Permissible Overhung Load / Permissible Thrust Load

### Round Shaft Type

Model	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
	10mm from shaft end	20mm from shaft end	
9R135S-□M(E) 9I135S-3M(E)	24	27	Permissible thrust load do not exceed the weight of Motor 1/2. If exceed the rated weight will decrease the service life of Motor. Please using indirect transmission machinery such as coupling, belt, chain. As the applications which will need the thrust load.

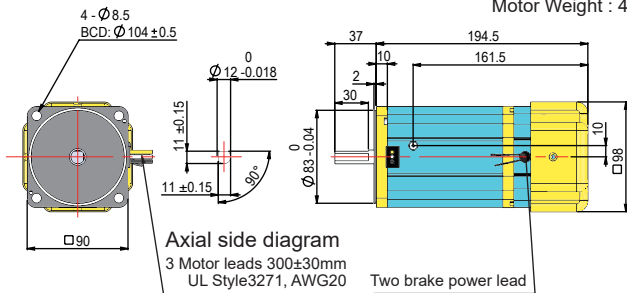
### Pinion Shaft Type(Gearbox Attached)

Model	Gear Ratio	Permissible Overhung Load(Unit : kg f)		Permissible Thrust Load (Unit : kg f)
		10mm from shaft end	20mm from shaft end	
9R135P-□M(E) 9I135P-3M(E)	3, 3.6, 5	50	60	15
	6, 7.5, 9, 10, 12.5, 15, 18, 20	60	70	
	25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180, 200, 250, 300, 360	70	80	

## ■ Dimensions

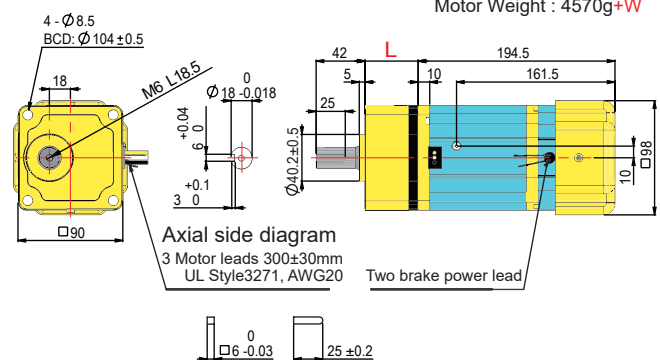
### Round Shaft Type 9R135S-□M(E) / 9I135S-3M(E)

Motor Weight : 4600g

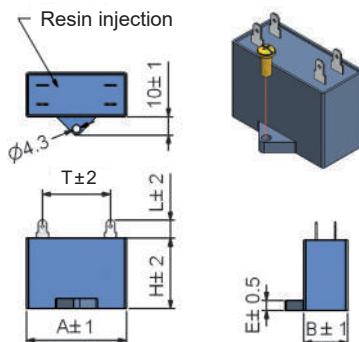


### Pinion Shaft Type 9R135P-□M(E) / 9I135P-3M(E)+9A□

Unit : mm  
Motor Weight : 4570g+W



## ■ Capacitor Dimensions (Single phase motors only)



\* 9A pinion shaft type 9A3~360, the spec of Gearbox "L" length and weight "W" as following :

9A□Gearbox Length/Weight		
Model	Length (mm)	Weight (g)
9A3~9A20	45.5	1170
9A25~9A100	58.5	1520
9A120~9A360	64.5	1610

※ We also have Gearbox 9A□U with shaft Ø15. For details please refer to the P.4.

Capacity of Capacitor (μF/VAC)	A	B	H	L	T	E
27/250	59	40	40	12	44	4
8/450	57.5	25	39	8	44	4
7/450	57.5	25	39	8	44	4

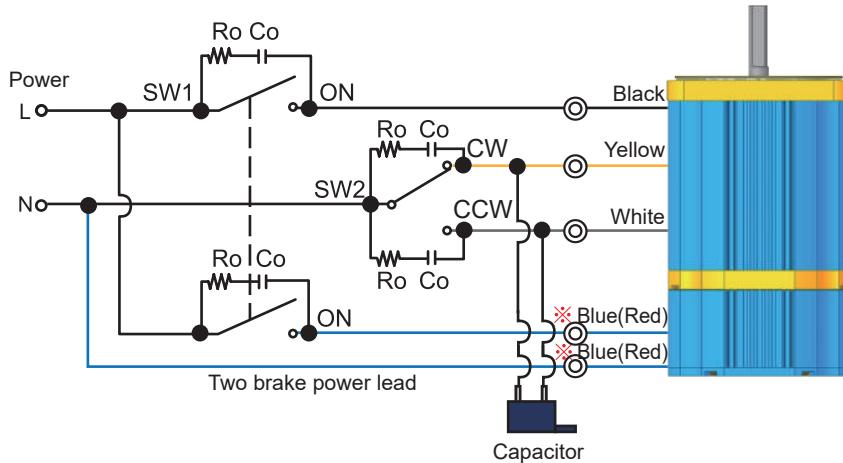
\* The figure above dimension tolerance values are not labeled a general machining tolerances, the control mode, refer to P.8, others have marked tolerance values according to the drawing labeled based.



## Electromagnetic Brake Motor Wiring Diagram 6W · 25W · 40W · 60W · 90W · 135W

### ■ Applicable Models : Single Phase Motor

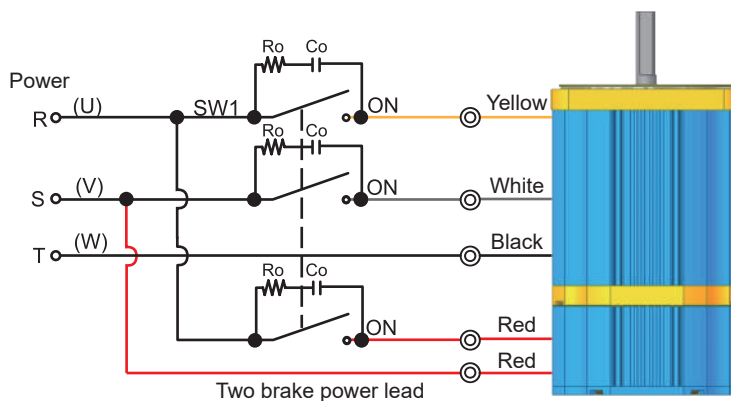
6R6□-1M	6R6□-2M	6R6□-2ME
8R25□-1M	8R25□-2M	8R25□-2ME
9R40□-1M	9R40□-2M	9R40□-2ME
9R60□-1M	9R60□-2M	9R60□-2ME
9R90□-1M	9R90□-2M	9R90□-2ME
9R135□-1M	9R135□-2M	9R135□-2ME



※ When Motor is 110 / 115V, the electromagnetic brake leads are blue; when the Motor is 220 / 230V, the electromagnetic brake leads are red.

### ■ Applicable Models : 3 Phase Motor

6I6□-3M	6I6□-3ME
8I25□-3M	8I25□-3ME
9I40□-3M	9I40□-3ME
9I60□-3M	9I60□-3ME
9I90□-3M	9I90□-3ME
9I135□-3M	9I135□-3ME



Note: Any exchange U, V, W either two leads, that is counterclockwise rotation.

# Product Recommendation Sheet

## ■ Mechanism: Operation of Large Index Table

Date dd / mm / yy

Name:		Contact Person:		Department / Title:	
TEL:	FAX:	Application:		Area:	
Power Input: <input type="checkbox"/> Single phase AC _____ V <input type="checkbox"/> 3 phase AC _____ V <input type="checkbox"/> DC _____ V					Frequency: _____ Hz

### Activated mode:

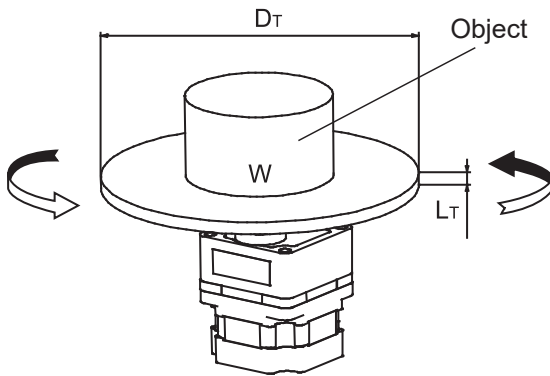
- ☐ Single direction operating continuously → ☐ Rated speed ☐ Regulated speed (Range: \_\_\_\_\_ rpm ~ \_\_\_\_\_ rpm)  
☐ Single direction run, stop, run, stop → Activated time: \_\_\_\_\_ Second/Sequence, Stop time: \_\_\_\_\_ Second/Sequence; Run, stop total \_\_\_\_\_ Sequence/Minute  
☐ Clockwise / counterclockwise repeated → CW: \_\_\_\_\_ Second/Sequence, Stop: \_\_\_\_\_ Second/Sequence : CCW: \_\_\_\_\_ Second/Sequence, Stop: \_\_\_\_\_ Sequence/Minute

Required motor: AC induction motor: ☐ Induction ☐ Reversible ☐ Speed control ☐ Magnetic brake ☐ Torque

DC brushless motor: ☐ BMS Series ☐ BS Series ☐ SBS Series ☐ UBS Series ☐ DBS Series ☐ Magnetic brake Series

Stepper motor: ☐ 2 phase ☐ 3 phase ☐ 5 phase

### 【Mechanism reference】



### 【Please sketch your actual transmission part of mechanism】

### 【Drive mechanism and operating data】

Object mass	W = _____ kg
Index table diameter	D <sub>T</sub> = _____ cm
Width	L <sub>T</sub> = _____ cm
Material	ρ = _____
Positioning angle *(Note)	θ = _____ deg
Positioning time *(Note)	T <sub>O</sub> = _____ sec
Stopping accuracy	± _____ mm

\*(Note): Please enter the max speed.

### Recommendation products (Selected specs) :

※ Leave blank for any unclear items and send this form by fax, We will select the suitable products for you as soon as possible.

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# Product Recommendation Sheet

■ Mechanism: Lead Screw

Date dd / mm / yy

Name:		Contact Person:		Department / Title:	
TEL:	FAX:	Application:		Area:	
Power Input: <input type="checkbox"/> Single phase AC _____ V <input type="checkbox"/> 3 phase AC _____ V <input type="checkbox"/> DC _____ V					Frequency: _____ Hz

## Activated mode:

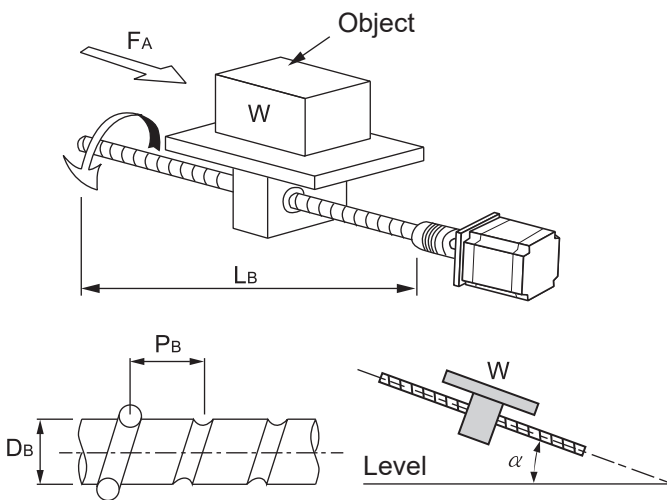
- ☐ Single direction operating continuously → ☐ Rated speed ☐ Regulated speed (Range: \_\_\_\_\_ rpm ~ \_\_\_\_\_ rpm)  
☐ Single direction run, stop, run, stop → Activated time: \_\_\_\_\_ Second/Sequence, Stop time: \_\_\_\_\_ Second/Sequence; Run, stop total \_\_\_\_\_ Sequence/Minute  
☐ Clockwise / counterclockwise repeated → CW: \_\_\_\_\_ Second/Sequence, Stop: \_\_\_\_\_ Second/Sequence : CCW: \_\_\_\_\_ Second/Sequence, Stop: \_\_\_\_\_ Sequence/Minute

Required motor: AC induction motor: ☐ Induction ☐ Reversible ☐ Speed control ☐ Magnetic brake ☐ Torque

DC brushless motor: ☐ BMS Series ☐ BS Series ☐ SBS Series ☐ UBS Series ☐ DBS Series ☐ Magnetic brake Series

Stepper motor: ☐ 2 phase ☐ 3 phase ☐ 5 phase

## 【Mechanism reference】



## 【Please sketch your actual transmission part of mechanism】

## 【Drive mechanism and operating data】

Work + Table mass	W = _____ kg	Frictional coefficient of sliding surfaces $\mu$ = _____
Screw angle	$\alpha$ = _____ deg	Positioning distance *(Note) L = _____ cm
Screw shaft diameter	DB = _____ cm	Positioning time *(Note) To = _____ sec
Screw length	LB = _____ cm	Push / Pull force FA = _____ kg
Screw pitch	PB = _____ cm	Stopping accuracy ± _____ mm
Material	$\rho$ = _____	
Screw efficiency	$\eta$ = _____	
Internal frictional coefficient of pilot pressure nut $\mu_0$ = _____		

\*(Note): Please enter the max speed.

## Recommendation products (Selected specs) :

※ Leave blank for any unclear items and send this form by fax, We will select the suitable products for you as soon as possible.

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# Product Recommendation Sheet

■ Mechanism: Belt and Pulley

Date dd / mm / yy

Name:		Contact Person:		Department / Title:	
TEL:	FAX:	Application:		Area:	
Power Input: <input type="checkbox"/> Single phase AC _____ V <input type="checkbox"/> 3 phase AC _____ V <input type="checkbox"/> DC _____ V					Frequency: _____ Hz

## Activated mode:

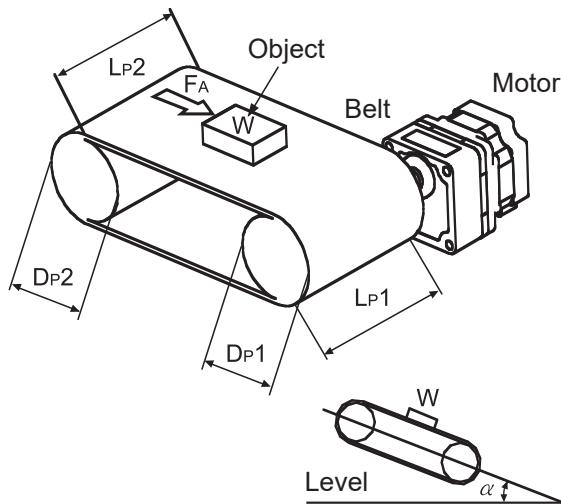
- ☐ Single direction operating continuously → ☐ Rated speed ☐ Regulated speed (Range: \_\_\_\_\_ rpm ~ \_\_\_\_\_ rpm)  
☐ Single direction run, stop, run, stop → Activated time: \_\_\_\_\_ Second/Sequence, Stop time: \_\_\_\_\_ Second/Sequence; Run, stop total \_\_\_\_\_ Sequence/Minute  
☐ Clockwise / counterclockwise repeated → CW: \_\_\_\_\_ Second/Sequence, Stop: \_\_\_\_\_ Second/Sequence : CCW: \_\_\_\_\_ Second/Sequence, Stop: \_\_\_\_\_ Sequence/Minute

Required motor: AC induction motor: ☐ Induction ☐ Reversible ☐ Speed control ☐ Magnetic brake ☐ Torque

DC brushless motor: ☐ BMS Series ☐ BS Series ☐ SBS Series ☐ UBS Series ☐ DBS Series ☐ Magnetic brake Series

Stepper motor: ☐ 2 phase ☐ 3 phase ☐ 5 phase

## 【Mechanism reference】



## 【Please sketch your actual transmission part of mechanism】

## 【Drive mechanism and operating data】

Work + Table + Pulley mass  $W =$  \_\_\_\_\_ kg  
 Screw angle  $\alpha =$  \_\_\_\_\_ deg  
 (Connecting to the motor)  
 Pulley diameter  $Dp1 =$  \_\_\_\_\_ cm  
 Width  $Lp1 =$  \_\_\_\_\_ cm  
 Material  $\rho 1 =$  \_\_\_\_\_  
 Pulley diameter  $Dp2 =$  \_\_\_\_\_ cm  
 Width  $Lp2 =$  \_\_\_\_\_ cm  
 Material  $\rho 2 =$  \_\_\_\_\_

Belt, pulley efficiency  $\eta =$  \_\_\_\_\_  
 Frictional coefficient of sliding surfaces  $\mu =$  \_\_\_\_\_  
 Positioning distance \*(Note)  $L =$  \_\_\_\_\_ cm  
 Positioning time \*(Note)  $T_0 =$  \_\_\_\_\_ sec  
 Push / Pull force  $F_A =$  \_\_\_\_\_ kg  
 Stopping accuracy  $\pm$  \_\_\_\_\_ mm

\*(Note): Please enter the max speed.

## Recommendation products (Selected specs) :

※ Leave blank for any unclear items and send this form by fax, We wil select the suitable products for you as soon as possible.



# Product Recommendation Sheet

■ Mechanism: Others

Date dd / mm / yy

Name:		Contact Person:		Department / Title:	
TEL:	FAX:	Application:		Area:	
Power Input: <input type="checkbox"/> Single phase AC _____V <input type="checkbox"/> 3 phase AC _____V <input type="checkbox"/> DC _____ V					Frequency: _____ Hz

## Activated mode:

- ☐ Single direction operating continuously → ☐ Rated speed ☐ Regulated speed(Range: \_\_\_\_\_rpm~\_\_\_\_\_rpm)
- ☐ Single direction run, stop, run, stop → Activated time: \_\_\_\_\_Second/Sequence, Stop time: \_\_\_\_\_Second/Sequence; Run, stop total \_\_\_\_\_Sequence/Minute
- ☐ Clockwise / counterclockwise repeated → CW: \_\_\_\_\_Second/Sequence, Stop: \_\_\_\_\_Second/Sequence : CCW: \_\_\_\_\_Second/Sequence, Stop: \_\_\_\_\_Sequence/Minute

Required motor: AC induction motor: ☐ Induction ☐ Reversible ☐ Speed control ☐ Magnetic brake ☐ Torque

DC brushless motor: ☐ BMS Series ☐ BS Series ☐ SBS Series ☐ UBS Series ☐ DBS Series ☐ Magnetic brake Series

Stepper motor: ☐ 2 phase ☐ 3phase ☐ 5phase

## 【Drive mechanism and operating data】

Use the space below to draw the outline of your drive mechanism and fill in the operating conditions required.

Recommendation products (Selected specs ) :

※ Leave blank for any unclear items and send this form by fax, We will select the suitable products for you as soon as possible.

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