



STOCK RANGE

Compact AC Geared Motors

**24 Hours
Delivery**

AC Induction Motors
In-line Gearboxes
Powers 6W to 200W
Global Approvals
Stocked In UK



gapp
automation

Gapp Automation Compact Geared Motors

Introduction

The latest addition to the Gapp Automation product portfolio is the GGM range of Compact In-Line AC Geared Motors. Manufactured to the highest quality standards, this range offers high reliability and long life. The GGM geared motors are characterised by their compact design, high efficiency and low noise, making them ideal for a wide variety of applications and industries. The AC motor range offers powers from 6W up to 200W, with supply voltages of 1ph/230V, 3ph/230V, 3ph/400V and 1ph/115V. The range includes Standard Induction motors and also Quick Reversible motors, which are ideal for Stop/Start, Forward/Reverse applications. Other variants include brake motors, variable speed motors and straight shafted motors which are available upon request. A comprehensive range of high efficiency helical spur gearboxes are available in ratios from 3:1 up to 200:1. With the addition of the 10:1 intermediate gearboxes, a limitless range of ratios are available. These gearboxes are lubricated for life, therefore do not require any maintenance.



GGM - The Company

GGM has its headquarters located in Seoul, South Korea, where it has several state of the art manufacturing facilities. Founded in 1979, GGM has today developed into one of the leading global manufacturers of small AC and DC geared motors. Approved suppliers to a range of high profile global brands, GGM has a proven track record in high quality and high volume production techniques, innovative product design and agile product development, and yet is able offer a very cost-effective solution. Approved to ISO 9001(200) and ISO 14001, GGM continues to re-invest in its design and production capabilities. GGM products are supported worldwide through a global network of distribution partners and product approvals include CE and UL. Visit www.GappAutomation.co.uk or www.ggm.co.kr for more information.



Gapp Automation - About Us

Gapp Automation GmbH has its headquarters based at Nuremberg in Germany, where its central logistics and design centre are also located. Founded in 1985 as a system engineering house, Gapp Automation now boasts an impressive product portfolio of leading edge automation products. The flagship 300S range of PLCs is the fastest PLC available on the market that supports Step7 from Siemens. Due to this common platform all Gapp Automation PLCs, from the compact 100V through to the 500S slot PLC, support Step7 from Siemens. This allows customers to easily switch between each PLC range, to suit the application requirements, without the need to change the programming environment.



Support

Gapp Automation offers technical support through a team of dedicated product engineers, who have significant experience and knowledge of small geared motors. In addition to expertise of small geared motors, Gapp Automation also has considerable application knowledge in a variety of industries. If you would like to discuss your application do not hesitate to contact Gapp Automation, who will be happy to assist.

UK Stock

All standard items included within this catalogue are held in stock in the UK, meaning next day delivery is normally possible. This ensures that Gapp Automation offers its customer quick product availability to suit immediate production and spares requirements. For large quantities or non-stock variants, these are available on a very short leadtime, which is due to the agile production and planning techniques utilised at GGM. For regular ongoing product requirements please discuss these with Gapp Automation, who are more than happy to tailor stock and reserve product to suit your production demands.

Total Solutions

In addition to the GGM Geared motors, Gapp Automation has a comprehensive range of control, automation and drives products. Gapp Automation has strategic partnership with other manufacturers of complimentary products. This ensures customers can rely on a complete solution from Gapp Automation.

Gapp Automation products include:

- PLCs
- HMI's
- Industrial PCs
- Motion Control
- Remote IO
- Remote Diagnostics
- Electrical Drives
- Servo Systems
- Steppers
- Electric Actuators
- Planetary Gearboxes
- Signal Towers

Contents



6W 60mm²

Page 4



90W 90mm²

Page 10-11



15W 70mm²

Page 5



120W/150W 90mm²

Page 12-13



25W 80mm²

Page 6



180W/200W 90mm²

Page 14-15



40W 90mm²

Page 7



Foot Mounts

Page 16



60W 90mm²

Page 8-9

Mounting Configuration

Page 17

General Technical Data

Page 18

Model Codes

Page 19

6W 1ph Standard Induction & Quick Reversible

6W 60mm²

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over-run and stopping time (S2 duty).

6W motors are self cooled and offer impedance protection. This feature ensures that these motors cannot overheat even during stall conditions.



K6IG6NC / K6RG6NC

K6IG6NC-T / K6RG6NC-T

Motor Performance Data

| Motor Type | Motor Part Nr | Connection Type | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP Rating | Ins Class | Mass (kg) |
|--------------------|---------------|-----------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|-----------|-----------|-----------|
| Standard Induction | K6IG6NC | Flying Lead | 6W | 230V +/- 10% | 50 | 0.12 | 0.19 | 0.048 | 0.041 | 1500 | 1250 | 0.6 | S1 | 22 | E | 0.7 |
| | K6IG6NC-T | Terminal Box | | | | | | | | | | | | 44 | | 0.9 |
| Quick Reversible | K6RG6NC | Flying Lead | 6W | 230V +/- 10% | 50 | 0.13 | 0.23 | 0.048 | 0.052 | 1500 | 1250 | 0.8 | S2 | 22 | E | 0.7 |
| | K6RG6NC-T | Terminal Box | | | | | | | | | | | | 44 | | 0.9 |

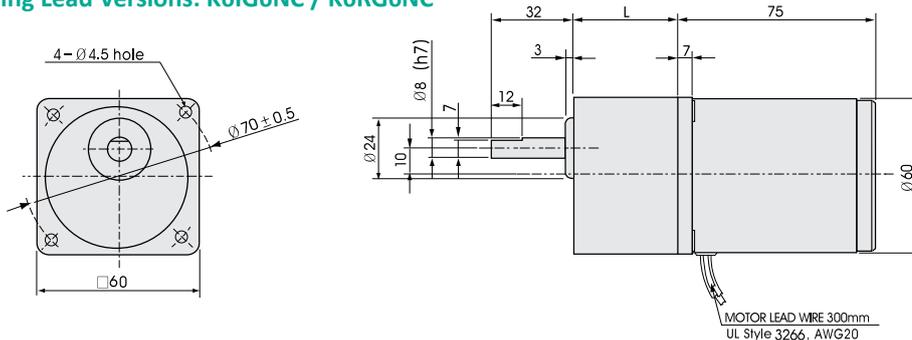
Geared Motor Performance Data

| Motor Type | Motor Part Nr | No Load Speed (r/min) | 500 | 300 | 200 | 150 | 100 | 75 | 60 | 50 | 30 | 20 | 15 | 10 | 8.3 |
|--------------------|----------------------|-----------------------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|------|------|
| | | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.9 |
| Gearbox Ratio | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 50 | 75 | 100 | 150 | 180 | | |
| Gearbox Part Nr | K6G3B | K6G5B | K6G7.5B | K6G10B | K6G15B | K6G20B | K6G25B | K6G30B | K6G50B | K6G75B | K6G100B | K6G150B | K6G180B | | |
| Standard Induction | K6IG6NC K6IG6NC-T | Rated Torque (Nm) | 0.11 | 0.19 | 0.29 | 0.38 | 0.57 | 0.69 | 0.86 | 1.03 | 1.55 | 2.33 | 3.0* | 3.0* | 3.0* |
| Quick Reversible | K6RG6NC K6RG6NC-T | Rated Torque (Nm) | 0.11 | 0.19 | 0.29 | 0.38 | 0.57 | 0.69 | 0.86 | 1.03 | 1.55 | 2.33 | 3.0* | 3.0* | 3.0* |

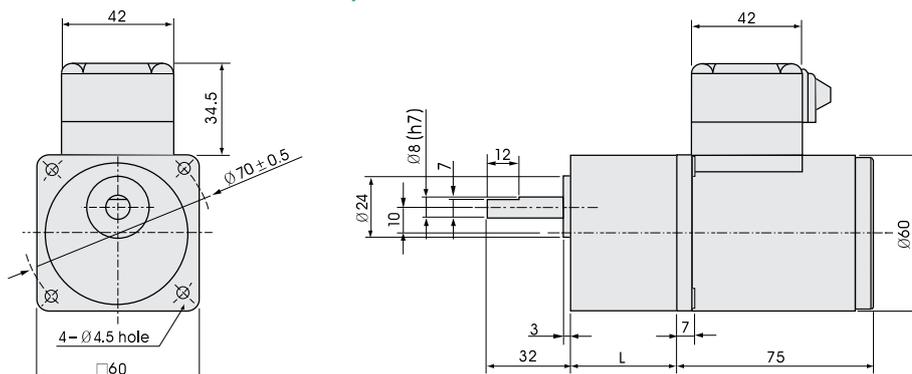
Motor part numbers without a T refer to flying lead versions. Motor part numbers with a T refer to terminal box versions.

Torque figures displaying a * symbol signify that under shock loads, high inertia or stall conditions the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details. Performance data above relates to 50Hz operation. Higher frequency operation may be possible. However please contact Gapp Automation to discuss your requirements.

Flying Lead Versions: K6IG6NC / K6RG6NC



Terminal Box Versions: K6IG6NC-T / K6RG6NC-T



Options

110V/115V, Plain Shafted, Variable Speed and Braked Motors are available on request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1 and 120:1 are available upon request. Rated Speeds < 8.3rpm are available on request. This increases geared motor length by 26mm.

All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required.

For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.

| Gearbox Model | L (mm) | Geared Motor Mass (Kg) | |
|------------------|--------|------------------------|--------------|
| | | Flying Lead | Terminal Box |
| K6G3B - K6G18B | 30 | 1.22 | 1.42 |
| K6G20B - K6G36B | 40 | 1.35 | 1.55 |
| K6G50B - K6G180B | 40 | 1.41 | 1.61 |

All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

15W 1ph Standard Induction & Quick Reversible

15W 70mm²

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over run and stopping time (S2 duty).

All 15W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



K6IG6NC / K6RG6NC

K6IG6NC-T / K6RG6NC-T

Motor Performance Data

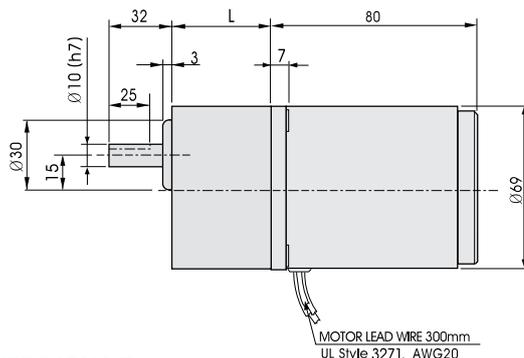
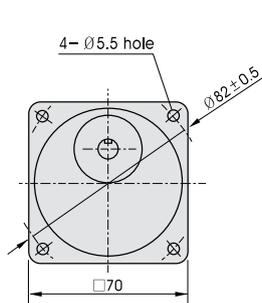
| Motor Type | Motor Part Nr | Connection Type | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP Rating | Ins Class | Mass (kg) |
|--------------------|---------------|-----------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|-----------|-----------|-----------|
| Standard Induction | K7IG15NC | Flying Lead | 15W | 230V +/- 10% | 50 | 0.18 | 0.40 | 0.12 | 0.08 | 1500 | 1250 | 1.0 | S1 | 22 | E | 1.5 |
| | K7IG15NC-T | Terminal Box | | | | | | | | | | | | 44 | | 1.7 |
| Quick Reversible | K7RG15NC | Flying Lead | 15W | 230V +/- 10% | 50 | 0.21 | 0.45 | 0.12 | 0.10 | 1500 | 1250 | 1.5 | S2 | 22 | E | 1.5 |
| | K7RG15NC-T | Terminal Box | | | | | | | | | | | | 44 | | 1.7 |

Geared Motor Performance Data

| Motor Type | Motor Part Nr | No Load Speed (r/min) | 500 | 300 | 200 | 150 | 100 | 75 | 60 | 50 | 30 | 20 | 15 | 10 | 8.3 |
|--------------------|------------------------|-----------------------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| | | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.9 |
| | | Gearbox Ratio | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 50 | 75 | 100 | 150 | 180 |
| | | Gearbox Part Nr | K7G3B | K7G5B | K7G7.5B | K7G10B | K7G15B | K7G20B | K7G25B | K7G30B | K7G50B | K7G75B | K7G100B | K7G150B | K7G180B |
| Standard Induction | K7IG15NC K7IG15NC-T | Rated Torque (Nm) | 0.29 | 0.48 | 0.72 | 0.95 | 1.43 | 1.72 | 2.15 | 2.58 | 3.88 | 5.0* | 5.0* | 5.0* | 5.0* |
| Quick Reversible | K7RG15NC K7RG15NC-T | Rated Torque (Nm) | 0.29 | 0.48 | 0.72 | 0.95 | 1.43 | 1.72 | 2.15 | 2.58 | 3.88 | 5.0* | 5.0* | 5.0* | 5.0* |

Motor part numbers without a T refer to flying lead versions. Motor part numbers with a T refer to terminal box versions. The thermal switch is wired internally. Torque figures displaying a * symbol signify that under shock loads, high inertia or stall conditions the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details. Performance data above relates to 50Hz operation. Higher frequency operation may be possible. However please contact Gapp Automation to discuss your requirements.

Flying Lead Versions: K7IG15NC / K7RG15NC



Options

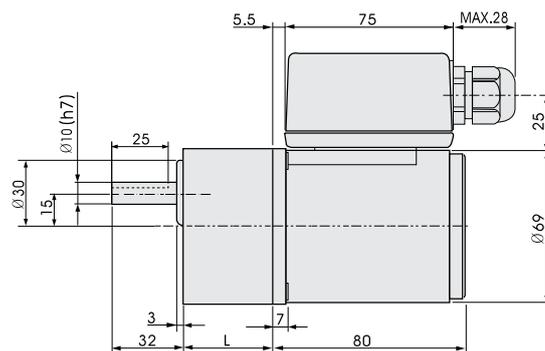
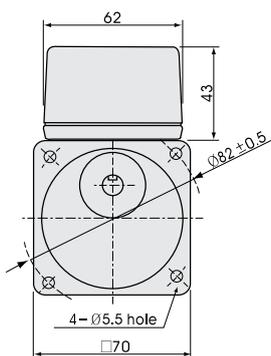
110V/115V, Plain Shafted, Variable Speed and Braked Motors are available on request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1 and 120:1 are available upon request. Rated Speeds < 8.3rpm are available on request. This increases geared motor length by 30mm.

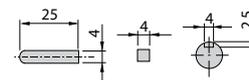
All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required.

For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.

Terminal Box Versions: K7IG15NC-T / K7RG15NC-T



| Gearbox Model | L (mm) | Geared Motor Mass (Kg) | |
|------------------|--------|------------------------|--------------|
| | | Flying Lead | Terminal Box |
| K7G3B - K7G18B | 32 | 2.02 | 2.22 |
| K7G20B - K7G36B | 42 | 2.15 | 2.35 |
| K7G50B - K7G180B | 42 | 2.21 | 2.41 |



Please note: Key dimensions are not to IEC standards

All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

25W Standard Induction & Quick Reversible

25W 80mm²

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over-run and stopping time (S2 duty).

All 25W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



Motor Performance Data

| Motor Type | Motor Part Nr | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP | Ins Class | Mass (kg) |
|--------------------|---------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|----|-----------|-----------|
| Standard Induction | K81G25NC-T5 | 25W | 1ph; 230V +/- 10% | 50 | 0.29 | 0.55 | 0.20 | 0.11 | 1500 | 1250 | 1.5 | S1 | 54 | E | 1.8 |
| | K81G25NH-T5 | | 3ph; 230V +/- 10% | | 0.29 | 0.77 | 0.19 | 0.65 | | 1350 | n/a | S1 | | | |
| | K81G25NV-T5 | | 3ph; 400V +/- 10% | | 0.18 | 0.49 | 0.19 | 0.73 | | 1300 | n/a | S1 | | | |
| Quick Reversible | K8RG25NC-T5 | | 1ph; 230V +/- 10% | | 0.35 | 0.63 | 0.20 | 0.17 | | 1250 | 2.0 | S2 | | | |

Geared Motor Performance Data

| Motor Type | Motor Part Nr | No Load Speed (r/min) | Gearbox Ratio | | | | | | | | | | | | | |
|--------------------|-------------------------|-----------------------|------------------------|--------------|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| | | | 500 | 300 | 200 | 150 | 100 | 75 | 60 | 50 | 30 | 20 | 15 | 10 | 8.3 | |
| | | | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 50 | 75 | 100 | 150 | 180 | |
| | | | Gearbox Part Nr | K8G3B | K8G5B | K8G7.5B | K8G10B | K8G15B | K8G20B | K8G25B | K8G30B | K8G50B | K8G75B | K8G100B | K8G150B | K8G180B |
| Standard Induction | K81G25NC-T5 1ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.9 | |
| | | Rated Torque (Nm) | 0.46 | 0.77 | 1.16 | 1.55 | 2.32 | 2.79 | 3.49 | 4.19 | 6.31 | 8.0* | 8.0* | 8.0* | 8.0* | |
| | K81G25NH-T5 3ph/230V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 | 45 | 27 | 18 | 14 | 9.0 | 7.5 | |
| | | Rated Torque (Nm) | 0.44 | 0.74 | 1.10 | 1.47 | 2.21 | 2.65 | 3.31 | 3.97 | 5.99 | 8.0* | 8.0* | 8.0* | 8.0* | |
| | K81G25NV-T5 3ph/400V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 | 43 | 26 | 17 | 13 | 8.7 | 7.2 | |
| | | Rated Torque (Nm) | 0.45 | 0.75 | 1.13 | 1.51 | 2.26 | 2.72 | 3.40 | 4.18 | 6.15 | 8.0* | 8.0* | 8.0* | 8.0* | |
| Quick Reversible | K8RG25NC-T5 1ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.9 | |
| | | Rated Torque (Nm) | 0.46 | 0.77 | 1.18 | 1.55 | 2.32 | 2.79 | 3.49 | 4.19 | 6.31 | 8.0* | 8.0* | 8.0* | 8.0* | |

Motor part numbers without a T refer to flying lead versions. Motor part numbers with a T refer to terminal box versions.

Torque figures displaying a * symbol signify that under shock loads, high inertia or stall conditions the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details. Performance data above relates to 50Hz operation. Higher frequency operation may be possible. Please contact Gapp Automation to discuss your requirements.

Options

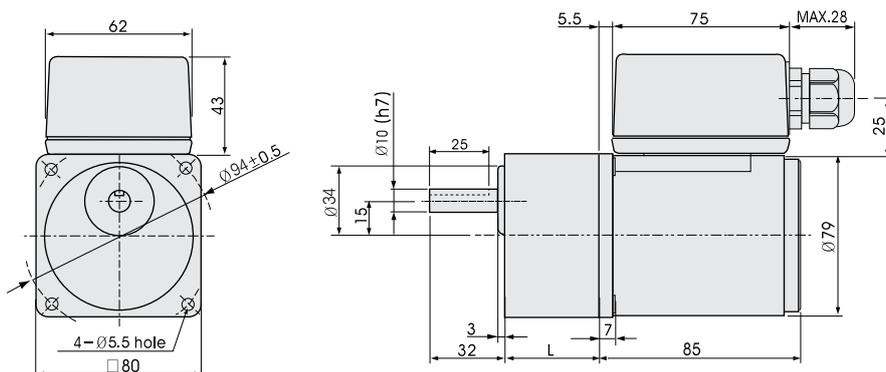
110V/115V, Plain Shafted, Variable Speed and Braked Motors are available on request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1 and 120:1 are available upon request

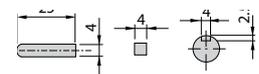
Rated Speeds < 8.3rpm are available on request. This increases geared motor length by 32mm.

All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required.

For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.



| Gearbox Model | L (mm) | Geared Motor Mass (Kg) |
|-------------------|--------|------------------------|
| K8G3B to K8G18B | 32 | 2.32 |
| K8G20B to K8G36B | 42.5 | 2.45 |
| K8G50B to K8G200B | 42.5 | 2.51 |



Please note: Key dimensions are not to IEC standards
All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

40W Standard Induction & Quick Reversible

40W 90mm²

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over-run and stopping time (S2 duty).

All 40W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



Motor Performance Data

| Motor Type | Motor Part Nr | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP | Ins Class | Mass (kg) |
|--------------------|---------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|----|-----------|-----------|
| Standard Induction | K9IG40NC-T5 | 40W | 1ph; 230V +/- 10% | 50 | 0.40 | 0.85 | 0.32 | 0.26 | 1500 | 1250 | 2.5 | S1 | 54 | E | 2.6 |
| | K9IG40NH-T5 | | 3ph; 230V +/- 10% | | 0.41 | 1.30 | 0.29 | 1.00 | | 1350 | n/a | S1 | | | |
| | K9IG40NV-T5 | | 3ph; 400V +/- 10% | | 0.18 | 0.70 | 0.30 | 1.15 | | 1350 | n/a | S1 | | | |
| Quick Reversible | K9RG40NC-T5 | | 1ph; 230V +/- 10% | | 0.55 | 1.03 | 0.32 | 0.40 | | 1250 | 3.5 | S2 | | | |

Geared Motor Performance Data

| Motor Type | Motor Part Nr | No Load Speed (r/min) | Gearbox Ratio | | | | | | | | | | | | |
|--------------------|-------------------------|-----------------------|-----------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| | | | 500 | 300 | 200 | 150 | 100 | 75 | 60 | 50 | 30 | 20 | 15 | 10 | 8.3 |
| | | | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 50 | 75 | 100 | 150 | 180 |
| | | | Gearbox Part Nr | | | | | | | | | | | | |
| | | | K9G3B | K9G5B | K9G7.5B | K9G10B | K9G15B | K9G20B | K9G25B | K9G30B | K9G50B | K9G75B | K9G100B | K9G150B | K9G180B |
| Standard Induction | K9IG40NC-T5 1ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.9 |
| | | Rated Torque (Nm) | 0.75 | 1.25 | 1.88 | 2.50 | 3.75 | 4.51 | 5.64 | 6.77 | 10.0* | 10.0* | 10.0* | 10.0* | 10.0* |
| | K9IG40NH-T5 3ph/230V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 | 45 | 27 | 18 | 14 | 9.0 | 7.5 |
| | | Rated Torque (Nm) | 0.69 | 1.15 | 1.73 | 2.30 | 3.88 | 4.15 | 5.19 | 6.23 | 9.39 | 10.0* | 10.0* | 10.0* | 10.0* |
| | K9IG40NV-T5 3ph/400V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 | 45 | 27 | 18 | 14 | 9.0 | 7.5 |
| | | Rated Torque (Nm) | 0.72 | 1.19 | 1.79 | 2.38 | 3.58 | 4.30 | 5.37 | 6.45 | 9.71 | 10.0* | 10.0* | 10.0* | 10.0* |
| Quick Reversible | K9RG40NC-T5 1ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.9 |
| | | Rated Torque (Nm) | 0.75 | 1.25 | 1.88 | 2.50 | 3.75 | 4.51 | 5.64 | 6.77 | 10.0* | 10.0* | 10.0* | 10.0* | 10.0* |

Motor part numbers without a T refer to flying lead versions. Motor part numbers with a T refer to terminal box versions.

Torque figures displaying a * symbol signify that under shock loads, high inertia or stall conditions the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details. Performance data above relates to 50Hz operation. Higher frequency operation may be possible. Please contact Gapp Automation to discuss your requirements.

Options

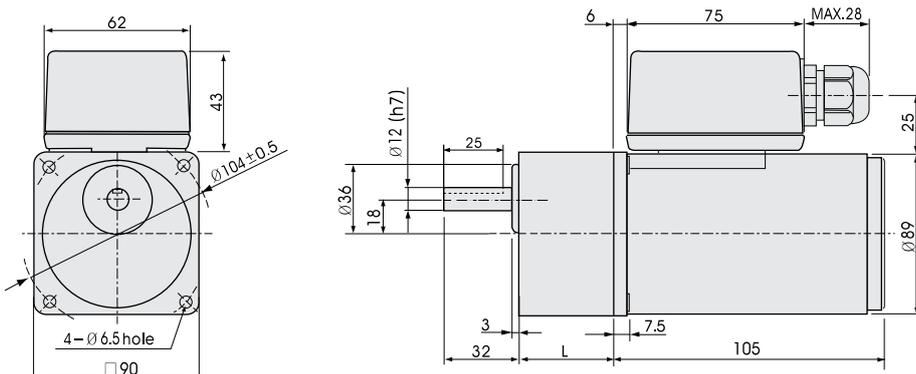
110V/115V, Plain Shafted, Variable Speed and Braked Motors are available on request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1 and 120:1 are available upon request

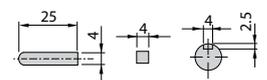
Rated Speeds < 8.3rpm are available on request. This increases geared motor length by 37mm.

All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required.

For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.



| Gearbox Model | L (mm) | Geared Motor Mass (Kg) |
|------------------|--------|------------------------|
| K9G3B - K9G18B | 42 | 3.39 |
| K9G20B - K9G36B | 60 | 3.65 |
| K9G50B - K9G200B | 60 | 3.80 |



All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

60W Standard Induction & Quick Reversible

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over run and stopping time (S2 duty).

All 60W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



Motor Performance Data

| Motor Type | Motor Part Nr | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP | Ins Class | Mass (kg) |
|--------------------|---------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|----|-----------|-----------|
| Standard Induction | K9IP60FC-T5 | 60W | 1ph; 230V +/- 10% | 50 | 0.63 | 1.28 | 0.47 | 0.40 | 1500 | 1250 | 4.0 | S1 | 54 | E | 2.7 |
| | K9IP60FH-T5 | | 3ph; 230V +/- 10% | | 0.60 | 1.90 | 0.44 | 1.65 | | 1350 | n/a | S1 | | | |
| | K9IP60FV-T5 | | 3ph; 400V +/- 10% | | 0.37 | 1.15 | 0.44 | 1.85 | | 1350 | n/a | S1 | | | |
| Quick Reversible | K9RP60FC-T5 | | 1ph; 230V +/- 10% | | 0.77 | 1.44 | 0.47 | 0.50 | | 1250 | 4.5 | S2 | | | |

Gearbox Models

K9PxxxB
Standard Torque
(Up to 20Nm)



K9PxxxBF
Standard Torque
(Up to 20Nm)



K9PxxxBU-K6
High Torque
(Up to 30Nm)



K9PxxxBUF-K6
High Torque
(Up to 30Nm)



Geared Motor Performance Data - Standard Torque

| Motor Type | Motor Part Nr | No Load Speed (r/min) | Gearbox Ratio | | | | | | | | | | | | |
|--------------------|-------------------------|-----------------------|---------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| | | | 500 | 300 | 200 | 150 | 100 | 75 | 60 | 50 | 30 | 20 | 15 | 10 | 7.5 |
| Standard Induction | K9IP60FC-T5 1ph/230V | Gearbox Ratio | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 50 | 75 | 100 | 150 | 200 |
| | | Gearbox Part Nr | K9P3B | K9P5B | K9P7.5B | K9P10B | K9P15B | K9P20B | K9P25B | K9P30B | K9P50B | K9P75B | K9P100B | K9P150B | K9P200B |
| | K9IP60FH-T5 3ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.3 |
| | | Rated Torque (Nm) | 1.12 | 1.87 | 2.80 | 3.37 | 5.05 | 6.09 | 7.61 | 9.10 | 15.2 | 20.0* | 20.0* | 20.0* | 20.0* |
| | K9IP60FV-T5 3ph/400V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 | 45 | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 1.04 | 1.73 | 2.59 | 3.12 | 4.67 | 5.63 | 7.04 | 8.45 | 14.1 | 18.9 | 20.0* | 20.0* | 20.0* |
| Quick Reversible | K9RP60FC-T5 1ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.3 |
| | | Rated Torque (Nm) | 1.12 | 1.87 | 2.80 | 3.37 | 5.05 | 6.09 | 7.61 | 9.13 | 15.2 | 20.0* | 20.0* | 20.0* | 20.0* |

Geared Motor Performance Data - High Torque

| Motor Type | Motor Part Nr | No Load Speed (r/min) | Gearbox Ratio | | | | |
|--------------------|-------------------------|-----------------------|---------------|------------|-------------|-------------|-------------|
| | | | 30 | 20 | 15 | 10 | 7.5 |
| Standard Induction | K9IP60FC-T5 1ph/230V | Gearbox Ratio | 50 | 75 | 100 | 150 | 200 |
| | | Gearbox Part Nr | K9P50BU-K6 | K9P75BU-K6 | K9P100BU-K6 | K9P150BU-K6 | K9P200BU-K6 |
| | K9IP60FH-T5 3ph/230V | Rated Speed (r/min) | 25 | 17 | 13 | 8.3 | 6.3 |
| | | Rated Torque (Nm) | 15.2 | 20.4 | 27.2 | 30.0* | 30.0* |
| | K9IP60FV-T5 3ph/400V | Rated Speed (r/min) | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 14.1 | 18.9 | 25.2 | 30.0* | 30.0* |
| Quick Reversible | K9RP60FC-T5 1ph/230V | Rated Speed (r/min) | 25 | 17 | 13 | 8.3 | 6.3 |
| | | Rated Torque (Nm) | 15.2 | 20.4 | 27.2 | 30.0* | 30.0* |

Torque figures displaying a * symbol signify that under shock loads, high inertia or stall conditions the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details.

Performance data relates to 50Hz operation. Higher frequency operation may be possible. Please contact Gapp Automation to discuss your requirements.

Options

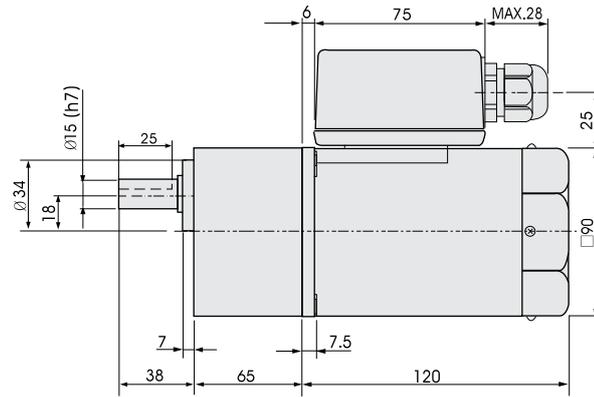
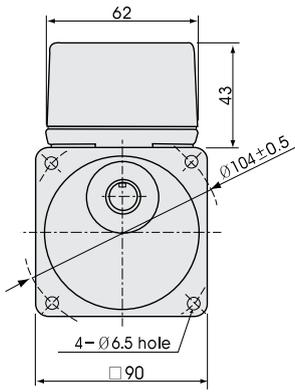
110V/115V, non-geared, variable speed and braked motors are available upon request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1, 120:1 and 180:1 are available upon request.

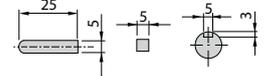
Rated Speeds < 8.3rpm are available upon request. This increases geared motor length by 40mm.

All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required. **For all of these options, and any other request, please contact Gapp to discuss your requirements.**

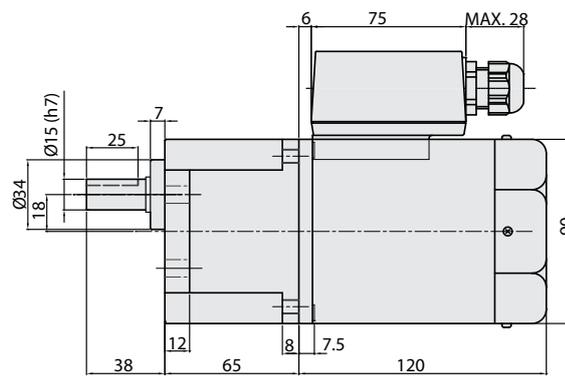
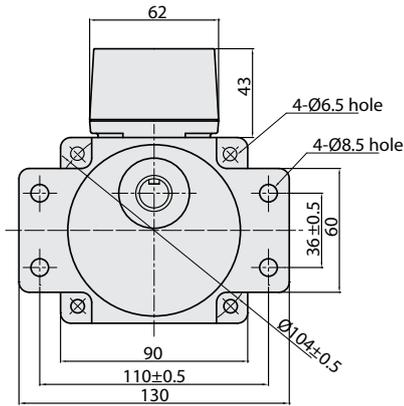
60W Motor + K9PxxxB Gearbox



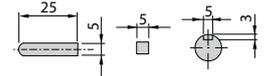
| Gearbox Model | Geared Motor Mass (Kg) |
|-------------------|------------------------|
| K9P3B - K9P10B | 4.00 |
| K9P12.5B - K9P15B | 4.10 |
| K9P20B - K9P50B | 4.15 |
| K9P75B - K9P200B | 4.20 |



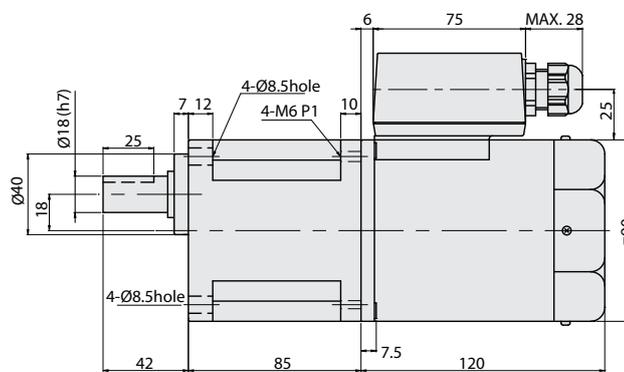
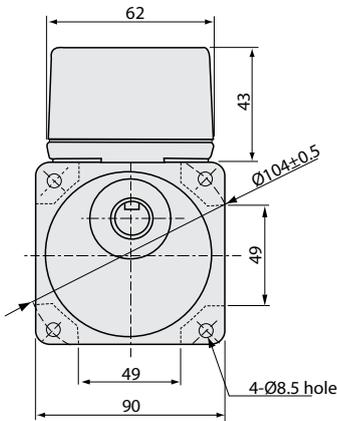
60W Motor + K9PxxxBF Gearbox



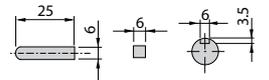
| Gearbox Model | Geared Motor Mass (Kg) |
|---------------------|------------------------|
| K9P3BF - K9P10BF | 4.00 |
| K9P12.5BF - K9P15BF | 4.10 |
| K9P20BF - K9P50BF | 4.15 |
| K9P75BF - K9P200BF | 4.20 |



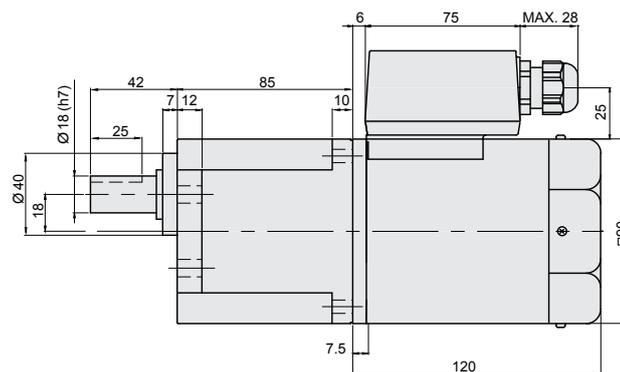
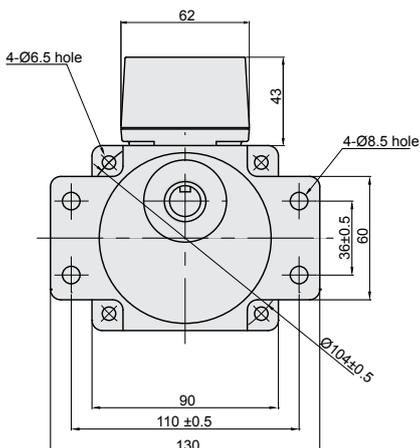
60W Motor + K9PxxxBU-K6 Gearbox



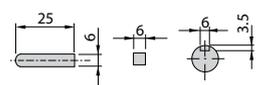
| Gearbox Model | Geared Motor Mass (Kg) |
|----------------------------|------------------------|
| K9P3BU-K6 to K9P10BU-K6 | 4.20 |
| K9P12.5BU-K6 to K9P15BU-K6 | 4.30 |
| K9P20BU-K6 to K9P50BU-K6 | 4.40 |
| K9P75BU-K6 to K9P200BU-K6 | 4.50 |



60W Motor + K9PxxxBUF-K6 Gearbox



| Gearbox Model | Geared Motor Mass (Kg) |
|------------------------------|------------------------|
| K9P3BUF-K6 to K9P10BUF-K6 | 4.30 |
| K9P12.5BUF-K6 to K9P15BUF-K6 | 4.40 |
| K9P20BUF-K6 to K9P50BUF-K6 | 4.50 |
| K9P75BU-K6 to 9P200BU-K6 | 4.60 |



All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

90W Standard Induction & Quick Reversible

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over-run and stopping time (S2 duty).

All 90W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



Motor Performance Data

| Motor Type | Motor Part Nr | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP | Ins Class | Mass (kg) |
|--------------------|---------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|----|-----------|-----------|
| Standard Induction | K9IP90FC-T5 | 90W | 1ph; 230V +/- 10% | 50 | 0.87 | 2.15 | 0.68 | 0.55 | 1500 | 1300 | 6.0 | S1 | 54 | E | 3.2 |
| | K9IP90FH-T5 | | 3ph; 230V +/- 10% | | 0.86 | 2.80 | 0.65 | 2.45 | | 1350 | | | | | |
| | K9IP90FV-T5 | | 3ph; 400V +/- 10% | | 0.52 | 1.65 | 0.65 | 2.65 | | 1350 | | | | | |
| Quick Reversible | K9RP90FC-T5 | | 1ph; 230V +/- 10% | | 1.30 | 2.30 | 0.71 | 0.60 | | 1250 | 7.0 | S2 | | | |

Gearbox Models

K9PxxxB
Standard Torque
(Up to 20Nm)



K9PxxxBF
Standard Torque
(Up to 20Nm)



K9PxxxBU-K6
High Torque
(Up to 30Nm)



K9PxxxBUF-K6
High Torque
(Up to 30Nm)



Geared Motor Performance Data - Standard Torque

| Motor Type | Motor Part Nr | No Load Speed (r/min) | Gearbox Ratio | | | | | | | | | | | | |
|--------------------|-------------------------|-----------------------|-----------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| | | | 500 | 300 | 200 | 150 | 100 | 75 | 60 | 50 | 30 | 20 | 15 | 10 | 7.5 |
| Standard Induction | K9IP90FC-T5 1ph/230V | Rated Speed (r/min) | Gearbox Part Nr | | | | | | | | | | | | |
| | | | K9P3B | K9P5B | K9P7.5B | K9P10B | K9P15B | K9P20B | K9P25B | K9P30B | K9P50B | K9P75B | K9P100B | K9P150B | K9P200B |
| Standard Induction | K9IP90FC-T5 1ph/230V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 | 43 | 26 | 17 | 13 | 8.7 | 6.5 |
| | | Rated Torque (Nm) | 1.61 | 2.68 | 4.02 | 4.83 | 7.25 | 8.74 | 10.9 | 13.1 | 20.0* | 20.0* | 20.0* | 20.0* | 20.0* |
| | K9IP90FH-T5 3ph/230V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 | 45 | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 1.55 | 2.58 | 3.87 | 4.65 | 6.98 | 8.42 | 10.5 | 12.6 | 20.0* | 20.0* | 20.0* | 20.0* | 20.0* |
| | K9IP90FV-T5 3ph/400V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 | 45 | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 1.55 | 2.58 | 3.87 | 4.65 | 6.98 | 8.42 | 10.5 | 12.6 | 20.0* | 20.0* | 20.0* | 20.0* | 20.0* |
| Quick Reversible | K9RP90FC-T5 1ph/230V | Rated Speed (r/min) | 417 | 250 | 167 | 125 | 83 | 63 | 50 | 42 | 25 | 17 | 13 | 8.3 | 6.3 |
| | | Rated Torque (Nm) | 1.68 | 2.80 | 4.20 | 5.05 | 7.57 | 9.13 | 11.4 | 13.7 | 20.0* | 20.0* | 20.0* | 20.0* | 20.0* |

Geared Motor Performance Data - High Torque

| Motor Type | Motor Part Nr | No Load Speed (r/min) | Gearbox Ratio | | | | |
|--------------------|-------------------------|-----------------------|-----------------|------------|-------------|-------------|-------------|
| | | | 30 | 20 | 15 | 10 | 7.5 |
| Standard Induction | K9IP90FC-T5 1ph/230V | Rated Speed (r/min) | Gearbox Part Nr | | | | |
| | | | K9P50BU-K6 | K9P75BU-K6 | K9P100BU-K6 | K9P150BU-K6 | K9P200BU-K6 |
| Standard Induction | K9IP90FC-T5 1ph/230V | Rated Speed (r/min) | 26 | 17 | 13 | 8.3 | 6.5 |
| | | Rated Torque (Nm) | 21.9 | 29.3 | 30.0* | 30.0* | 30.0* |
| | K9IP90FH-T5 3ph/230V | Rated Speed (r/min) | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 21.0 | 28.2 | 30.0* | 30.0* | 30.0* |
| | K9IP90FV-T5 3ph/400V | Rated Speed (r/min) | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 21.0 | 28.2 | 30.0* | 30.0* | 30.0* |
| Quick Reversible | K9RP90FC-T5 1ph/230V | Rated Speed (r/min) | 25 | 17 | 13 | 8.3 | 6.3 |
| | | Rated Torque (Nm) | 22.8 | 30.0* | 30.0* | 30.0* | 30.0* |

Torque figures displaying a * symbol signify that under shock loads, high inertia or stall conditions the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details.

Performance data relates to 50Hz operation. Higher frequency operation may be possible. Please contact Gapp Automation to discuss your requirements.

Options

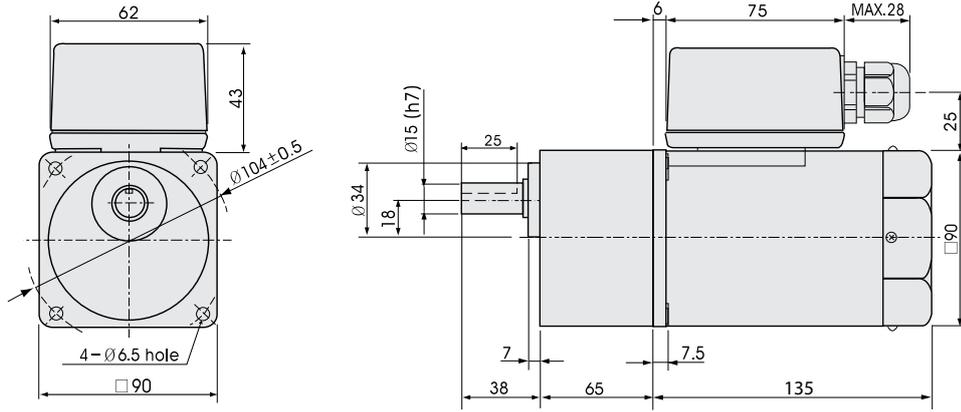
110V/115V, non-geared, variable speed and braked motors are available upon request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1, 120:1 and 180:1 are available upon request.

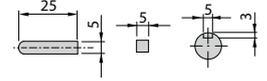
Rated Speeds < 8.3rpm are available upon request. This increases geared motor length by 40mm.

All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required. **For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.**

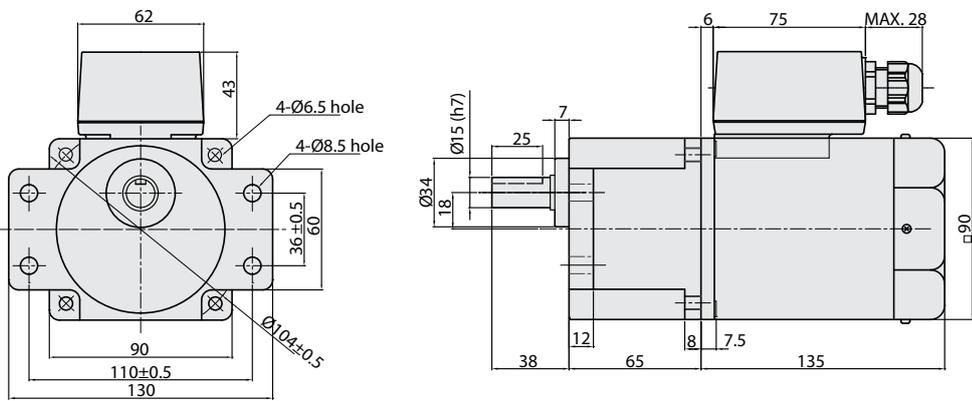
90W Motor + K9PxxxB Gearbox



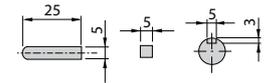
| Gearbox Model | Geared Motor Mass (Kg) |
|-------------------|------------------------|
| K9P3B - K9P10B | 4.50 |
| K9P12.5B - K9P15B | 4.60 |
| K9P20B - K9P50B | 4.65 |
| K9P75B - K9P200B | 4.70 |



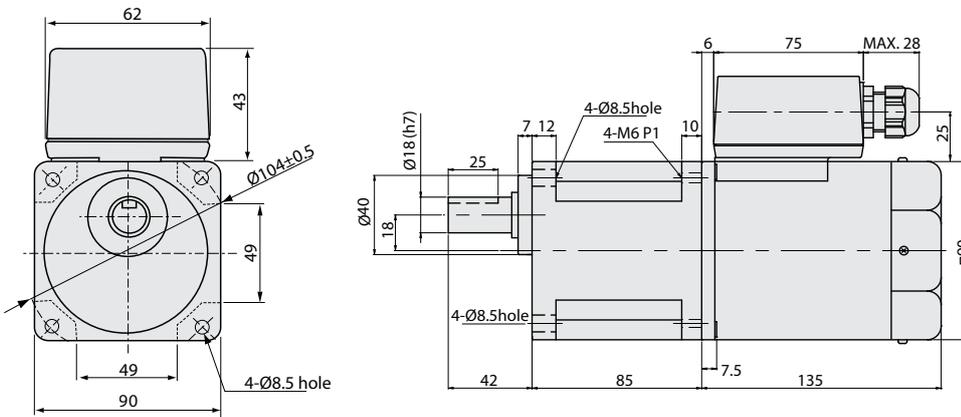
90W Motor + K9PxxxBF Gearbox



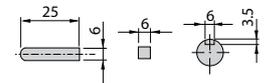
| Gearbox Model | Geared Motor Mass (Kg) |
|---------------------|------------------------|
| K9P3BF - K9P10BF | 4.50 |
| K9P12.5BF - K9P15BF | 4.60 |
| K9P20BF - K9P50BF | 4.65 |
| K9P75BF - K9P200BF | 4.70 |



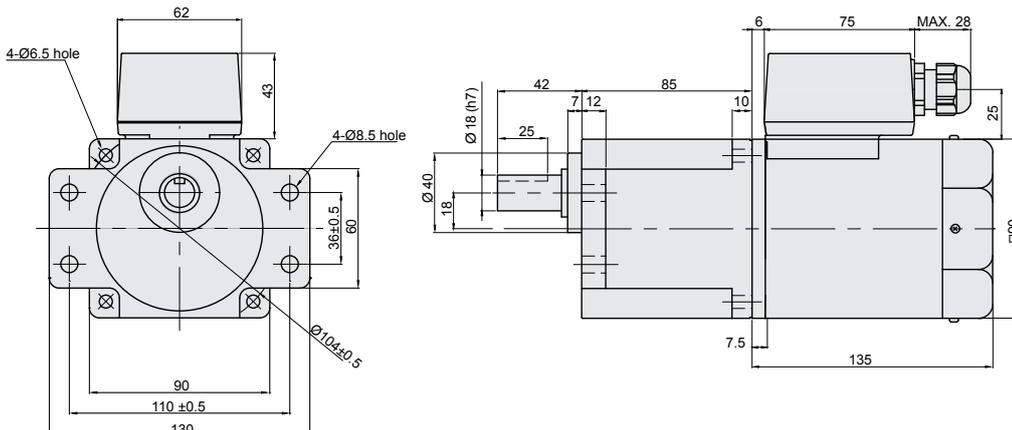
90W Motor + K9PxxxBU-K6 Gearbox



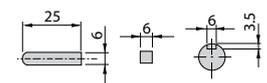
| Gearbox Model | Geared Motor Mass (Kg) |
|----------------------------|------------------------|
| K9P3BU-K6 to K9P10BU-K6 | 4.70 |
| K9P12.5BU-K6 to K9P15BU-K6 | 4.80 |
| K9P20BU-K6 to K9P50BU-K6 | 4.90 |
| K9P75BU-K6 to K9P200BU-K6 | 5.00 |



90W Motor + K9PxxxBUF-K6 Gearbox



| Gearbox Model | Geared Motor Mass (Kg) |
|------------------------------|------------------------|
| K9P3BUF-K6 to K9P10BUF-K6 | 4.80 |
| K9P12.5BUF-K6 to K9P15BUF-K6 | 4.90 |
| K9P20BUF-K6 to K9P50BUF-K6 | 5.00 |
| K9P75BUF-K6 to K9P200BUF-K6 | 5.10 |



All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

120W & 150W Standard Induction & Quick Reversible

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over-run and stopping time (S2 duty). All 120W and 150W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



Motor Performance Data

| Motor Type | Motor Part Nr | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP | Ins Class | Mass (kg) |
|--------------------|---------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|----|-----------|-----------|
| Standard Induction | K9IP120FC-T5 | 120W | 1ph; 230V +/- 10% | 50 | 0.85 | 2.53 | 0.90 | 0.60 | 1500 | 1300 | 6.0 | S1 | 54 | E | 3.3 |
| | K9IP150FH-T5 | 150W | 3ph; 230V +/- 10% | | 1.10 | 3.47 | 1.13 | 3.00 | | 1300 | n/a | S1 | | | |
| | K9IP150FV-T5 | | 3ph; 400V +/- 10% | | 0.71 | 2.10 | 1.13 | 3.50 | | 1300 | n/a | S1 | | | |
| Quick Reversible | K9RP120FC-T5 | 120W | 1ph; 230V +/- 10% | | 0.85 | 2.50 | 0.90 | 0.58 | | 1300 | 6.0 | S2 | | | |

Geared Motor Performance Data - Standard Torque

| Motor Type | Motor Part Nr | No Load Speed (r/min) | 500 | 300 | 200 | 150 | 100 | 75 | 60 |
|--------------------|--------------------------|-----------------------|-------------------------|-------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | | Gearbox Ratio | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 |
| | | Gearbox Part Nr | K9P3BU-K6 K9P3BUF-K6 | K9P5BU-K6 K9P5BUF-K6 | K9P7.5BU-K6 K9P7.5BUF-K6 | K9P10BU-K6 K9P10BUF-K6 | K9P15BU-K6 K9P15BUF-K6 | K9P20BU-K6 K9P20BUF-K6 | K9P25BU-K6 K9P25BUF-K6 |
| Standard Induction | K9IP120FC-T5 1ph/230V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 |
| | | Rated Torque (Nm) | 2.15 | 3.58 | 5.36 | 6.45 | 9.67 | 11.7 | 14.6 |
| | K9IP150FH-T5 3ph/230V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 |
| | | Rated Torque (Nm) | 2.69 | 4.49 | 6.73 | 8.09 | 12.1 | 14.6 | 18.3 |
| | K9IP150FV-T5 3ph/400V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 |
| | | Rated Torque (Nm) | 2.69 | 4.49 | 6.73 | 8.09 | 12.1 | 14.6 | 18.3 |
| Quick Reversible | K9RP120FC-T5 1ph/230V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 |
| | | Rated Torque (Nm) | 2.15 | 3.58 | 5.36 | 6.45 | 9.67 | 11.7 | 14.6 |

Gearbox Models

K9PxxxBU-K6
High Torque
(Up to 30Nm)



K9PxxxBUF-K6
High Torque
(Up to 30Nm)



| Motor Type | Motor Part Nr | No Load Speed (r/min) | 50 | 30 | 20 | 15 | 10 | 7.5 |
|--------------------|--------------------------|-----------------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | Gearbox Ratio | 30 | 50 | 75 | 100 | 150 | 200 |
| | | Gearbox Part Nr | K9P30BU-K6 K9P30BUF-K6 | K9P50BU-K6 K9P50BUF-K6 | K9P75BU-K6 K9P75BUF-K6 | K9P100BU-K6 K9P100BUF-K6 | K9P150BU-K6 K9P150BUF-K6 | K9P200BU-K6 K9P200BUF-K6 |
| Standard Induction | K9IP120FC-T5 1ph/230V | Rated Speed (r/min) | 43 | 26 | 17 | 13 | 8.7 | 6.5 |
| | | Rated Torque (Nm) | 17.5 | 29.1 | 30.0* | 30.0* | 30.0* | 30.0* |
| | K9IP150FH-T5 3ph/230V | Rated Speed (r/min) | 43 | 26 | 17 | 13 | 8.7 | 6.5 |
| | | Rated Torque (Nm) | 22.0 | 30.0* | 30.0* | 30.0* | 30.0* | 30.0* |
| | K9IP150FV-T5 3ph/400V | Rated Speed (r/min) | 43 | 26 | 17 | 13 | 8.7 | 6.5 |
| | | Rated Torque (Nm) | 22.0 | 30.0* | 30.0* | 30.0* | 30.0* | 30.0* |
| Quick Reversible | K9RP120FC-T5 1ph/230V | Rated Speed (r/min) | 43 | 26 | 17 | 13 | 9.0 | 6.5 |
| | | Rated Torque (Nm) | 17.5 | 29.1 | 30.0* | 30.0* | 30.0* | 30.0* |

Options

110V/115V, non-geared, variable speed and braked motors are available upon request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1, 120:1 and 180:1 are available upon request.

Rated Speeds < 8.3rpm are available upon request. This increases geared motor length by 40mm.

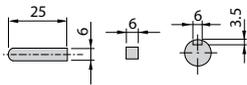
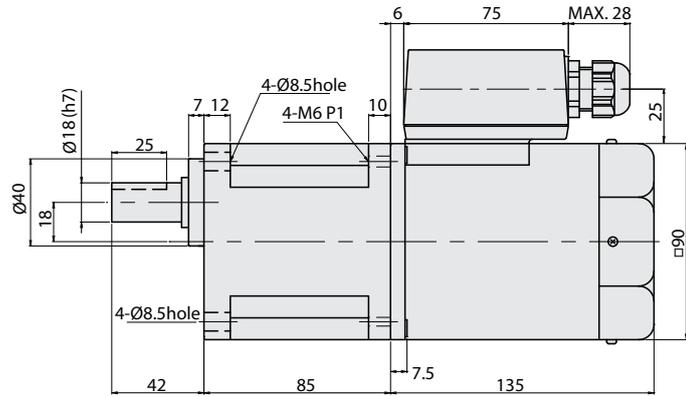
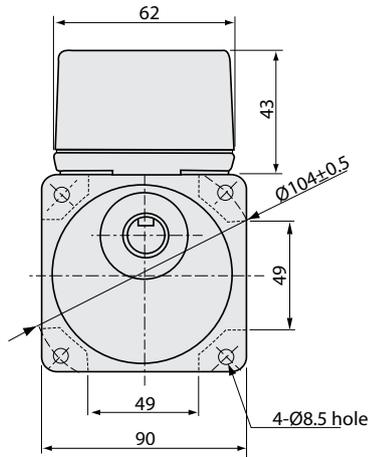
All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required.

For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.

Torque figures displaying a * symbol signify that, under shock loads, high inertia or stall conditions, the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details.

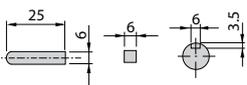
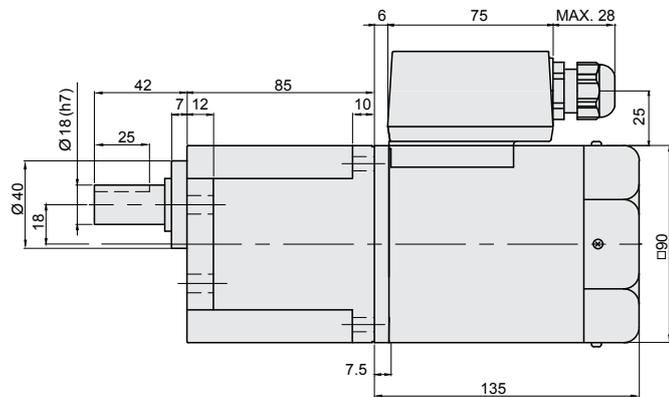
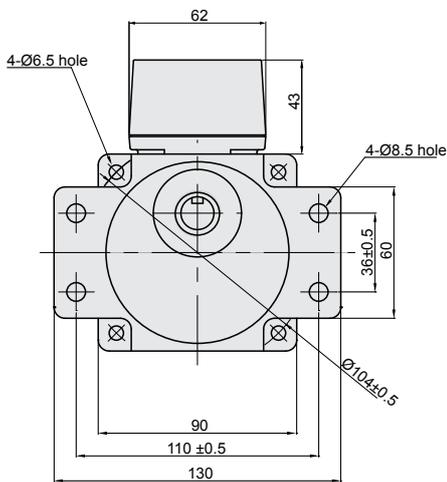
Performance data relates to 50Hz operation. Higher frequency operation may be possible. Please contact Gapp Automation to discuss your requirements.

120W/150W Motor + K9PxxxBU-K6 Gearbox



| Gearbox Model | Geared Motor Mass (Kg) |
|----------------------------|------------------------|
| K9P3BU-K6 to K9P10BU-K6 | 4.80 |
| K9P12.5BU-K6 to K9P15BU-K6 | 4.90 |
| K9P20BU-K6 to K9P50BU-K6 | 5.00 |
| K9P75BU-K6 to K9P200BU-K6 | 5.10 |

120W/150W Motor + K9PxxxBUF-K6 Gearbox



| Gearbox Model | Geared Motor Mass (Kg) |
|------------------------------|------------------------|
| K9P3BUF-K6 to K9P10BUF-K6 | 4.90 |
| K9P12.5BUF-K6 to K9P15BUF-K6 | 5.00 |
| K9P20BUF-K6 to K9P50BUF-K6 | 5.10 |
| K9P75BUF-K6 to K9P200BUF-K6 | 5.20 |

All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

180W & 200W Standard Induction & Quick Reversible

The Gapp Automation range of compact AC geared motors are ideal for a wide variety of applications due to their long life, aesthetic design, low noise and high efficiency. All of the motors use standard AC induction technology, and can be combined with a range of in-line helical gearboxes, to give a compact and very cost-effective geared motor solution.

In addition to the Standard Induction motors, Gapp Automation also offers a range of Quick Reversible models. These are ideally suited for Stop/Start or Forward/Reverse applications, due to their integrated friction braking system, which reduces over-run and stopping time (S2 duty).

All 180W and 200W motors are supplied with a normally closed thermal switch integrated into the motor windings, for thermal protection purposes.



Motor Performance Data

| Motor Type | Motor Part Nr | Output Power (W) | Rated Voltage (V) | Rated Freq (Hz) | Rated Current (A) | Starting Current (A) | Rated Torque (Nm) | Starting Torque (Nm) | No Load Speed (r/min) | Rated Speed (r/min) | Capacitor (uF) | Duty Rating | IP | Ins Class | Mass (kg) |
|--------------------|---------------|------------------|-------------------|-----------------|-------------------|----------------------|-------------------|----------------------|-----------------------|---------------------|----------------|-------------|----|-----------|-----------|
| Standard Induction | K9IP180FC-T5 | 180W | 1ph; 230V +/- 10% | 50 | 1.70 | 3.62 | 1.35 | 0.75 | 1500 | 1300 | 7.0 | S1 | 54 | E | 4.1 |
| | K9IP200FH-T5 | 200W | 3ph; 230V +/- 10% | | 1.51 | 4.51 | 1.45 | 4.3 | | 1350 | n/a | S1 | | | |
| | K9IP200FV-T5 | | 3ph; 400V +/- 10% | | 0.91 | 2.80 | 1.45 | 4.5 | | 1350 | n/a | S1 | | | |
| Quick Reversible | K9RP180FC-T5 | 180W | 1ph; 230V +/- 10% | 1.70 | 3.63 | 1.35 | 0.70 | 1300 | 8.0 | S2 | | | | | |

Geared Motor Performance Data - Standard Torque

| Motor Type | Motor Part Nr | No Load Speed (r/min) | 500 | 300 | 200 | 150 | 100 | 75 | 60 |
|--------------------|--------------------------|-----------------------|-------------------------|-------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | | Gearbox Ratio | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 |
| | | Gearbox Part Nr | K9P3BU-K6 K9P3BUF-K6 | K9P5BU-K6 K9P5BUF-K6 | K9P7.5BU-K6 K9P7.5BUF-K6 | K9P10BU-K6 K9P10BUF-K6 | K9P15BU-K6 K9P15BUF-K6 | K9P20BU-K6 K9P20BUF-K6 | K9P25BU-K6 K9P25BUF-K6 |
| Standard Induction | K9IP180FC-T5 1ph/230V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 |
| | | Rated Torque (Nm) | 3.22 | 5.36 | 8.05 | 9.67 | 14.5 | 17.5 | 21.9 |
| | K9IP200FH-T5 3ph/230V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 |
| | | Rated Torque (Nm) | 3.46 | 5.76 | 8.64 | 10.4 | 15.6 | 18.8 | 23.5 |
| | K9IP200FV-T5 3ph/400V | Rated Speed (r/min) | 450 | 270 | 180 | 135 | 90 | 68 | 54 |
| | | Rated Torque (Nm) | 3.46 | 5.76 | 8.64 | 10.4 | 15.6 | 18.8 | 23.5 |
| Quick Reversible | K9RP150FC-T5 1ph/230V | Rated Speed (r/min) | 433 | 260 | 173 | 130 | 87 | 65 | 52 |
| | | Rated Torque (Nm) | 3.22 | 5.36 | 8.05 | 9.67 | 14.5 | 17.5 | 21.9 |

Gearbox Models

K9PxxxBU-K6
High Torque
(Up to 30Nm)



K9PxxxBUF-K6
High Torque
(Up to 30Nm)



| Motor Type | Motor Part Nr | No Load Speed (r/min) | 50 | 30 | 20 | 15 | 10 | 7.5 |
|--------------------|--------------------------|-----------------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | Gearbox Ratio | 30 | 50 | 75 | 100 | 150 | 200 |
| | | Gearbox Part Nr | K9P30BU-K6 K9P30BUF-K6 | K9P50BU-K6 K9P50BUF-K6 | K9P75BU-K6 K9P75BUF-K6 | K9P100BU-K6 K9P100BUF-K6 | K9P150BU-K6 K9P150BUF-K6 | K9P200BU-K6 K9P200BUF-K6 |
| Standard Induction | K9IP180FC-T5 1ph/230V | Rated Speed (r/min) | 43 | 26 | 17 | 13 | 8.7 | 6.5 |
| | | Rated Torque (Nm) | 26.2 | 30.0* | 30.0* | 30.0* | 30.0* | 30.0* |
| Standard Induction | K9IP200FH-T5 3ph/230V | Rated Speed (r/min) | 45 | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 28.2 | 30.0* | 30.0* | 30.0* | 30.0* | 30.0* |
| | K9IP200FV-T5 3ph/400V | Rated Speed (r/min) | 45 | 27 | 18 | 14 | 9.0 | 6.8 |
| | | Rated Torque (Nm) | 28.2 | 30.0* | 30.0* | 30.0* | 30.0* | 30.0* |
| Quick Reversible | K9RP150FC-T5 1ph/230V | Rated Speed (r/min) | 43 | 26 | 17 | 13 | 8.7 | 6.5 |
| | | Rated Torque (Nm) | 26.2 | 30.0* | 30.0* | 30.0* | 30.0* | 30.0* |

Options

110V/115V, non-geared, variable speed and braked motors are available upon request.

Gearbox ratios 3.6:1, 6:1, 9:1, 12.5:1, 18:1, 36:1, 60:1, 90:1, 120:1 and 180:1 are available upon request.

Rated Speeds < 8.3rpm are available upon request. This increases geared motor length by 40mm.

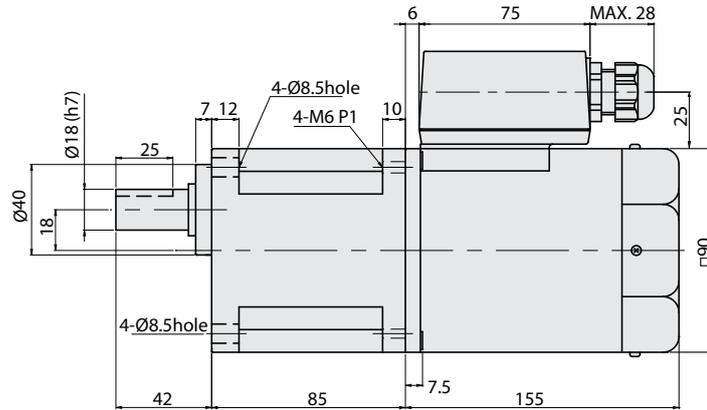
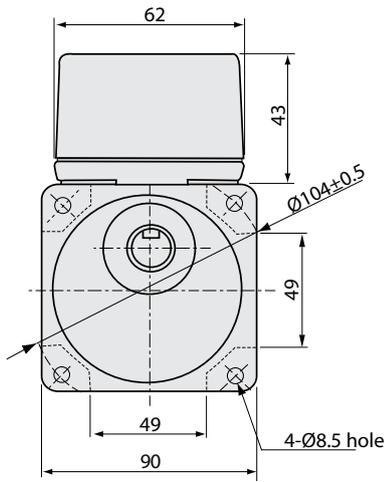
All motors and gearboxes can be assembled free of charge prior to despatch. Please inform Gapp Automation at time of ordering, if this service is required.

For all of these options, and any other request, please contact Gapp Automation to discuss your requirements.

Torque figures displaying a * symbol signify that, under shock loads, high inertia or stall conditions, the rated torque of the gearbox may be exceeded, potentially causing damage to the gearbox or resulting in reduced lifetime. The use of a torque limiting device is therefore recommended. Please contact Gapp Automation for more details.

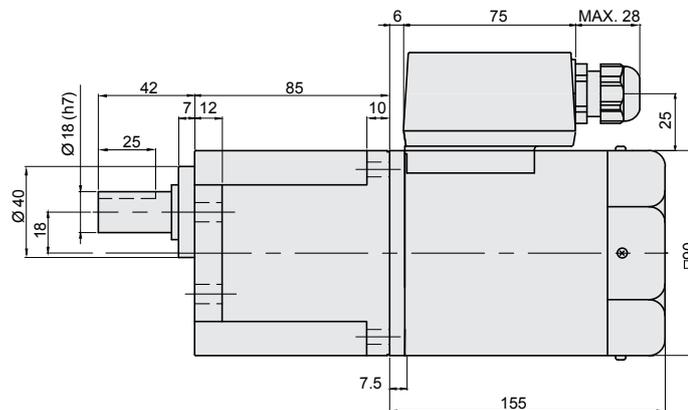
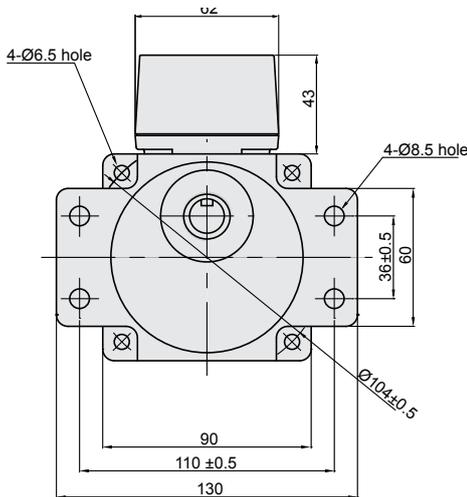
Performance data relates to 50Hz operation. Higher frequency operation may be possible. Please contact Gapp Automation to discuss your requirements.

180W/200W Motor + K9PxxxBU-K6 Gearbox



| Gearbox Model | Geared Motor Mass (Kg) |
|----------------------------|------------------------|
| K9P3BU-K6 to K9P10BU-K6 | 5.60 |
| K9P12.5BU-K6 to K9P15BU-K6 | 5.70 |
| K9P20BU-K6 to K9P50BU-K6 | 5.80 |
| K9P75BU-K6 to K9P200BU-K6 | 5.90 |

180W/200W Motor + K9PxxxBU-K6 Gearbox



| Gearbox Model | Geared Motor Mass (Kg) |
|------------------------------|------------------------|
| K9P3BUF-K6 to K9P10BUF-K6 | 5.70 |
| K9P12.5BUF-K6 to K9P15BUF-K6 | 5.80 |
| K9P20BUF-K6 to K9P50BUF-K6 | 5.90 |
| K9P75BUF-K6 to K9P200BUF-K6 | 6.00 |

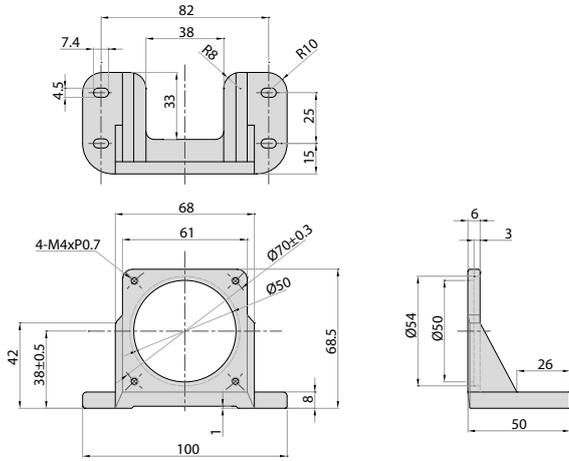
All dimensions are in mm. For any critical dimensions please confirm with Gapp Automation Ltd

Foot Mounts

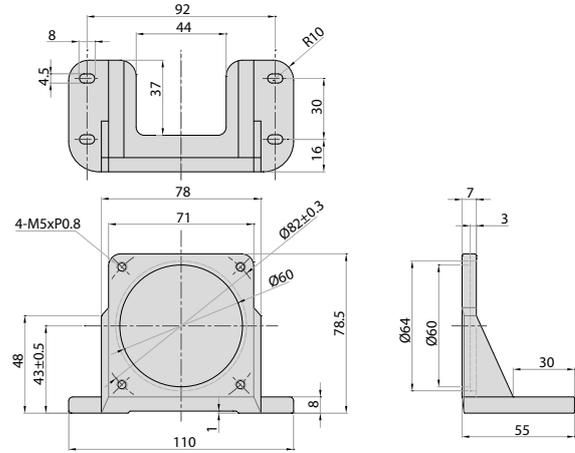
Foot mounts are available for all square gearboxes to allow simple mounting of the geared motor. They can be ordered as separate items or pre-assembled to the geared motor prior to despatch, to suit the required mounting orientation. Please specify this at placement of order. These foot mounts are not suitable for use with flanged type gearboxes.



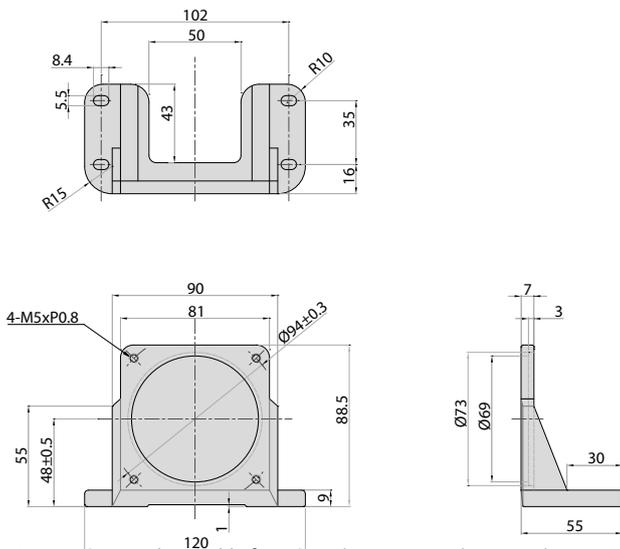
Part Nr: K6B (Suitable for K6GxxxB gearboxes)



Part Nr: K7B (Suitable for K7GxxxB gearboxes)

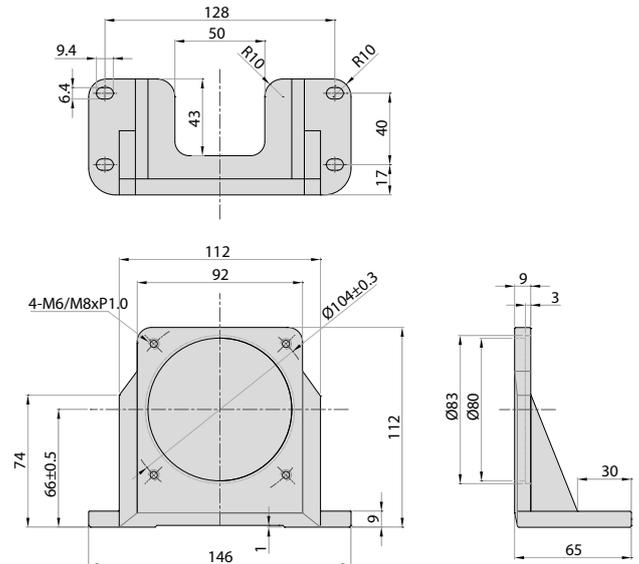


Part Nr: K8B (Suitable for K8GxxxB gearboxes)



Part Nr: K9B-M6 (Suitable for K9GxxxB/K9PxxxB gearboxes)

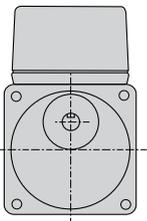
Part Nr: K9B-M8 (Suitable for K9PxxxBU-K6 gearboxes)



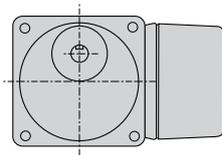
Foot mounts are only suitable for use with square gearboxes and can not be used with flanged gearboxes.

Terminal Box and Lead Positions

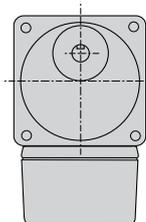
Pos T



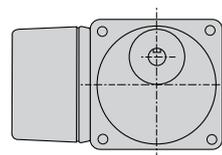
Pos R



Pos B

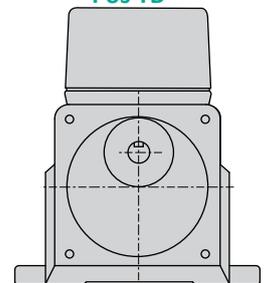


Pos L



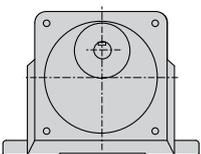
Example

Pos TB

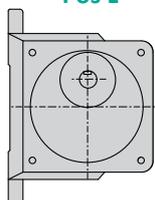


Foot Mount Positions

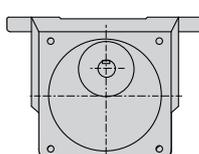
Pos B



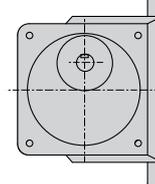
Pos L



Pos T



Pos R



Key

- T = Top
- R = Right
- L = Left
- B = Bottom

(Viewed towards output shaft, with shaft offset towards top)

Motors and gearboxes are supplied un-assembled as standard. Assembly can be offered free of charge and should be specified at time of ordering.

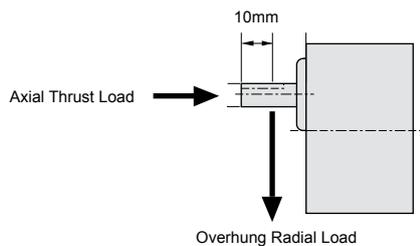
Service Factors

The life-time of the geared motor is determined by several factors including axial/radial load, application type, load conditions and ambient temperature. To ensure that the lifetime of the geared motor is maintained, it is essential that the motor is not overloaded. In addition, depending upon the application type, the following service factors should be applied when determining the suitable motor selection

| Load Type | Application Example | Service Factor | | |
|------------------|---|----------------|-----------|-----------|
| | | 5 hr/day | 8 hr/day | 24 hr/day |
| Constant Running | No Shock Loads Belt Conveyor, Stirrer | 0.8 | 1.0 | 1.5 |
| Light Impact | Frequent Start/Stop Indexing Conveyor, CAM | 1.2 | 1.5 | 2.0 |
| Medium Impact | Frequent Instant Reversing/Stopping, Labelling Machine, Barrier/Gate | 1.5 | 2.0 | 2.5 |
| Heavy Impact | Instant Stall, Heavy Shock Loads, Punching, Drilling | 2.0 - 2.5 | 2.5 - 3.0 | 3.0 - 3.5 |

Gearbox Radial and Axial Load Capacities

The Radial Overhung Load capacity is the amount of bending load can be applied to the geared motor output shaft. This is where the driven mechanism is not independently supported, but applies a force to the shaft bearing, such as chain or belt drive. The figures below relate to a position 10mm from the end of the output shaft. As both radial and axial loading affect the life-time of the geared motor it is essential that these figures are not exceeded.



| Gearbox Model | Ratio | Motor Power (W) | Radial Overhung Load (N) | Axial Thrust Load (N) | Bolt Dimensions (mm) |
|----------------------------|----------|-----------------|--------------------------|-----------------------|----------------------|
| K6G3B - K6G18B | 3 - 18 | 6 | 50 | 30 | M4 x 50 |
| K6G20B - K6G180B | 20 - 180 | 6 | 120 | 30 | M4 x 60 |
| K7G3B - K7G18B | 3 - 18 | 15 | 80 | 40 | M5 x 50 |
| K7G20B - K7G180B | 20 - 180 | 15 | 150 | 40 | M5 x 65 |
| K8G3B - K8G18B | 3 - 18 | 25 | 100 | 50 | M5 x 50 |
| K8G20B - K8G180B | 20 - 180 | 25 | 200 | 50 | M5 x 65 |
| K9G3B - K9G18B | 3 - 18 | 40 | 250 | 100 | M6 x 65 |
| K9G20B - K9G180B | 20 - 180 | 40 | 300 | 100 | M6 x 80 |
| K9P3B - K9P9B | 3 - 9 | 60/90 | 400 | 150 | M6 x 95 |
| K9P3BF - K9P9BF | 3 - 9 | 60/90 | 400 | 150 | M6 x 25 |
| K9P10B - K9P18B | 10 - 18 | 60/90 | 450 | 150 | M6 x 95 |
| K9P10BF - K9P18BF | 10 - 18 | 60/90 | 450 | 150 | M6 x 25 |
| K9P20B - K9P200B | 20 - 200 | 60/90 | 500 | 150 | M6 x 95 |
| K9P20BF - K9P200BF | 20 - 200 | 60/90 | 500 | 150 | M6 x 25 |
| K9P3BU-K6 - K9P9BU-K6 | 3 - 9 | 60/200 | 400 | 150 | M6 x 20 |
| K9P3BUF-K6 - K9P9BUF-K6 | 3 - 9 | 60/200 | 400 | 150 | M6 x 20 |
| K9P10BU-K6 - K9P18BU-K6 | 10 - 18 | 60/200 | 400 | 150 | M6 x 20 |
| K9P10BUF-K6 - K9P18BUF-K6 | 10 - 18 | 60/200 | 400 | 150 | M6 x 20 |
| K9P20BU-K6 - K9P200BU-K6 | 20 - 200 | 60/200 | 400 | 150 | M6 x 20 |
| K9P20BUF-K6 - K9P200BUF-K6 | 20 - 200 | 60/200 | 400 | 150 | M6 x 20 |

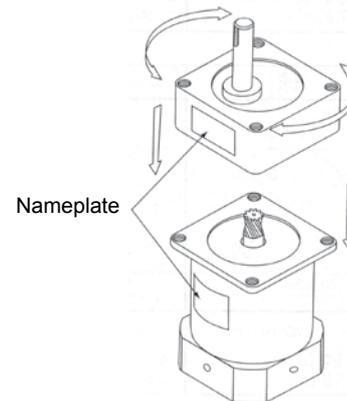
Installation Instructions

The Gapp Automation range of AC Geared Motors are maintenance free, and do not require servicing during the normal life of the product. Fitting and operation should be done in accordance with Gapp Automation's instruction sheet. The gearbox has grease lubricated bearings and gears, neither of which require maintenance, provided the product is used in normal working conditions and within the rated specification.

To maximise the life of the motor, it is essential that there is sufficient free flow of air around the product. For motor powers 6 - 40W, these Geared Motors are totally enclosed and are therefore self cooled. The surface temperature of the motor is rated to operate at around 80°C under normal operating conditions. The operator should take care not to touch the surface of the motor or gearbox when it is being operated to avoid scalding. For motor powers of 60W and above it is important that the fan is not covered. When these motor powers are operated at frequencies less than 25Hz, it is recommended that force cooling is used to ensure sufficient levels of cooling are maintained. Contact Gapp Automation for further details.

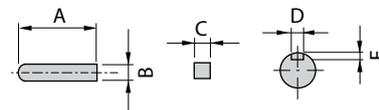
Motor and Gearbox Assembly

When assembling gearboxes to motors it is important that particular care is taken to avoid any possible damage to the motor pinion and input stage of the gearbox. The motor should be held firmly and placed in a vertical direction with the motor shaft facing upwards. The gearbox should then be lowered slowly into position, and turned slightly in the horizontal direction to ensure a smooth meshing of the pinion to the first stage of the gearbox. Under no circumstances should the motor and gearbox quickly come together. Once the motor pinion and gearbox input stage has been correctly meshed, the gearbox can then be rotated to ensure alignment of the fixing holes. The fixing bolts can then be inserted. The nuts should be tightened in an opposing diagonal order.



When fitting the geared motor to the application, the output shaft bearing housing can be used as a locating spigot for mounting the unit. For square gearboxes, the fixing bolts can be used to fix the geared motor directly to the application. In this case, it is important that the motor and gearbox do not separate, which could cause damage to the motor pinion.

Key & Keyway Dimensions & Tolerances



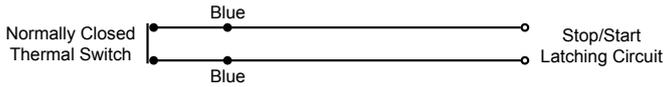
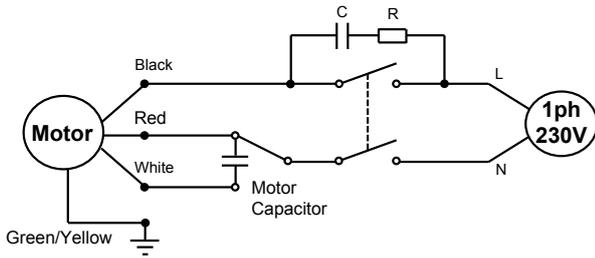
| Gearbox Model | Motor Power (W) | Shaft Diameter (mm) | A | B | C | D | E |
|---------------------------------------|-----------------|---------------------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| K6G3B - K6G180B | 6 | 8 h7 | D-Cut Shaft | | | | |
| K7G3B - K7G180B | 15 | 10 h7 | 25 ± 0.2 | 4 ^{+0.00} _{-0.03} | 4 ^{+0.00} _{-0.03} | 4 ^{+0.04} _{-0.00} | 2.5 ^{+0.10} _{-0.00} |
| K8G3B - K8G180B | 25 | 10 h7 | 25 ± 0.2 | 4 ^{+0.00} _{-0.03} | 4 ^{+0.00} _{-0.03} | 4 ^{+0.04} _{-0.00} | 2.5 ^{+0.10} _{-0.00} |
| K9G3B - K9G180B | 40 | 12 h7 | 25 ± 0.2 | 4 ^{+0.00} _{-0.03} | 4 ^{+0.00} _{-0.03} | 4 ^{+0.04} _{-0.00} | 2.5 ^{+0.10} _{-0.00} |
| K9P3B/BF - K9P200B/BF | 60-90 | 15 h7 | 25 ± 0.2 | 5 ^{+0.00} _{-0.03} | 5 ^{+0.00} _{-0.03} | 5 ^{+0.04} _{-0.00} | 3.0 ^{+0.10} _{-0.00} |
| K9P3BU-K6/BUF-K6 - K9P200BU-K6/BUF-K6 | 60-200 | 18 h7 | 25 ± 0.2 | 6 ^{+0.00} _{-0.03} | 6 ^{+0.00} _{-0.03} | 6 ^{+0.04} _{-0.00} | 3.5 ^{+0.10} _{-0.00} |

15W and 25W Gearboxes are not in accordance to IEC standards

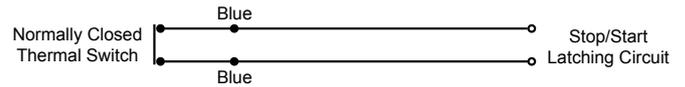
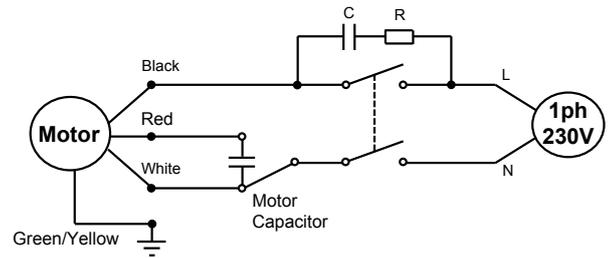
Wiring Diagrams

Single Phase 230V

Clockwise Rotation

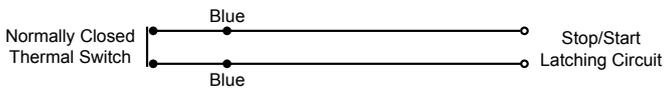
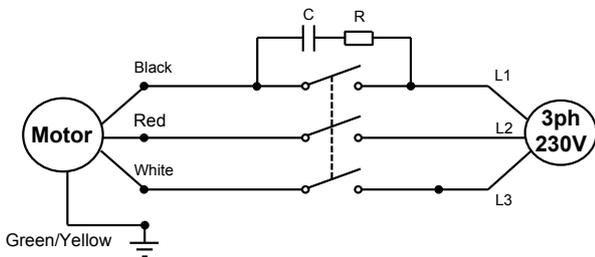


Counter-Clockwise Rotation

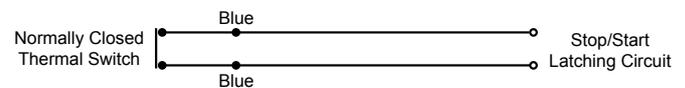
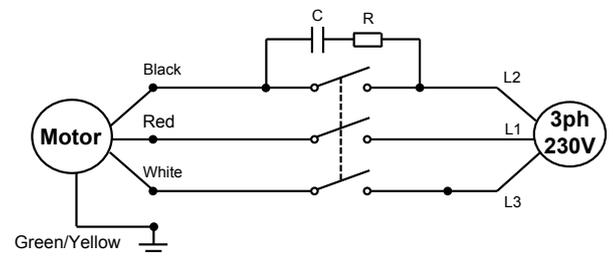


Three Phase 230V

Clockwise Rotation

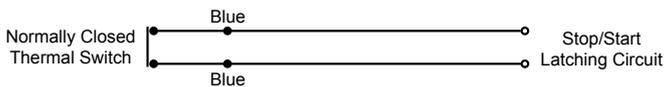
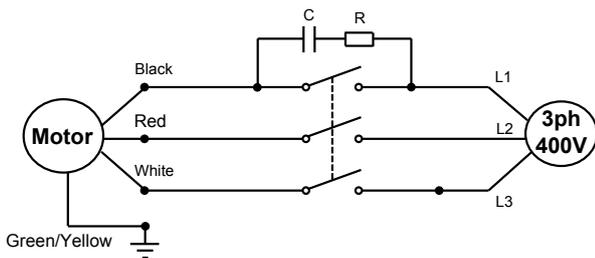


Counter-Clockwise Rotation

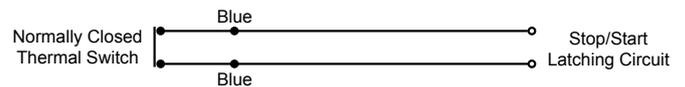
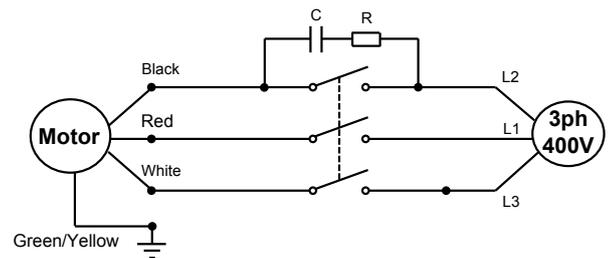


Three Phase 400V

Clockwise Rotation



Counter-Clockwise Rotation



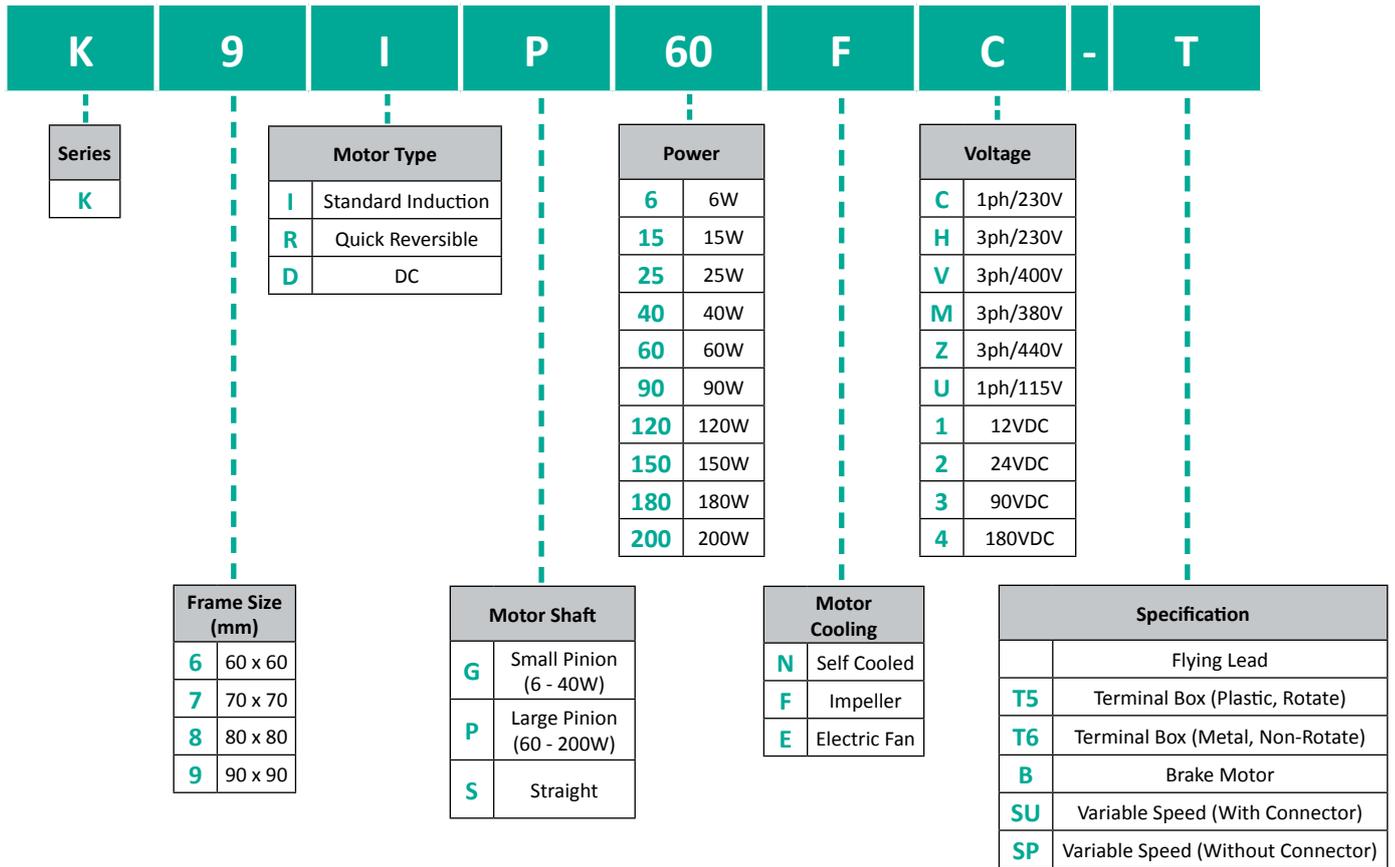
Please Note: output direction of rotation of geared motor depends upon gearbox ratio (number of stages). Please check correct rotation of geared motor prior to installation to avoid any damage to the machine or risk to the user.

Spark Suppression

| Item | Details |
|------------|-------------------------------------|
| Contactors | 400VAC, 5A minimum (inductive load) |
| Resistor | 5 - 200 Ohm |
| Capacitor | 0.1 - 0.2uF |

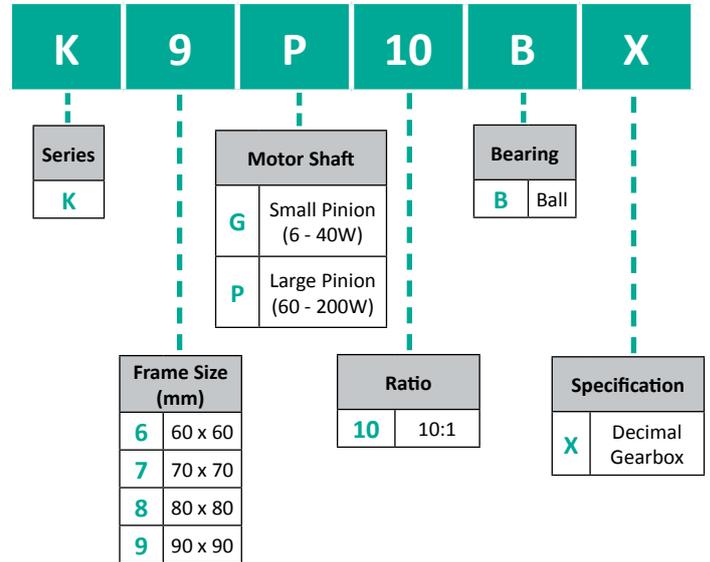
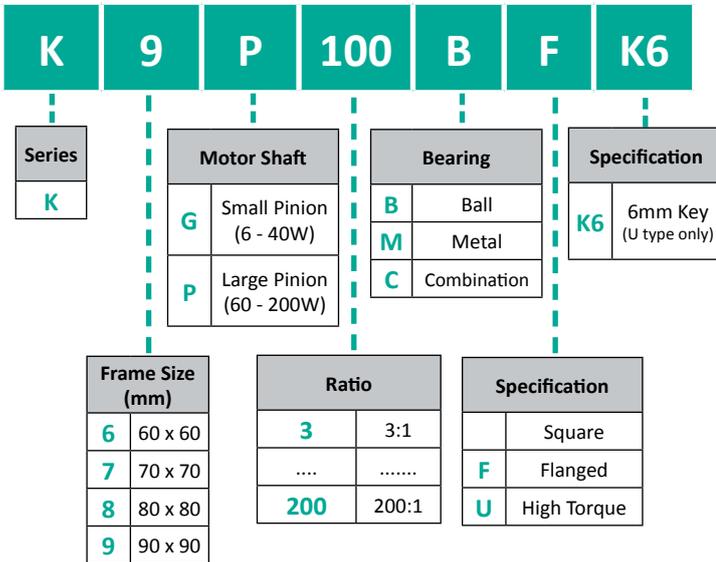
Motor Thermal Switch

Gapp Automation geared motors rated from 15W up to 200W are supplied with thermal switches as standard. It is essential to ensure protection to the motor and to the installation that the motor thermal switch is connected to the machine's Stop/Start safety circuit. Motors rated to 6W are impedance protected, therefore are not supplied with thermal switches. All motors, when run continuously at rated load, will experience heating up of the motor body. It is advisable that the operator should not touch the motor until it has cooled down.



Gearbox Coding

Decimal Gearbox Coding



Gearbox Ratios Available

| Type | Frame (mm) | Power (W) | Gearbox Ratio | | | | | | | | | | | | | | | | | | | | | | |
|-------|------------|-----------|---------------|-----|---|---|-----|---|----|------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| | | | 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 |
| K6G | 60 x 60 | 6 | 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 | |
| K7G | 70 x 70 | 15 | 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 | |
| K8G | 80 x 80 | 25 | 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 | |
| K9G | 90 x 90 | 40 | 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 | |
| K9P | 90 x 90 | 60 - 90 | 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 |
| K9P-U | 90 x 90 | 60 - 200 | 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 |

Models highlighted in green are generally not held in stock, so may be subject to a short leadtime. Please contact Gapp Automation to discuss your requirements.



Other Models

www.ggm.co.kr

Brake Geared Motors



Variable Speed Geared Motors



Variable Speed Controllers



Straight Shafted Motors



Brushless DC Geared Motors



PM DC Geared Motors



Miniature DC Geared Motors



Open Frame Geared Motors



Customised Solutions



gapp
automation

Gapp Automation Ltd
6 Kempston Court
Kempston Hardwick
Bedford, MK43 9PQ
Tel: 01234 924324
Fax: 01234 924325
email: info@gapp.co.uk
www.gapp.co.uk