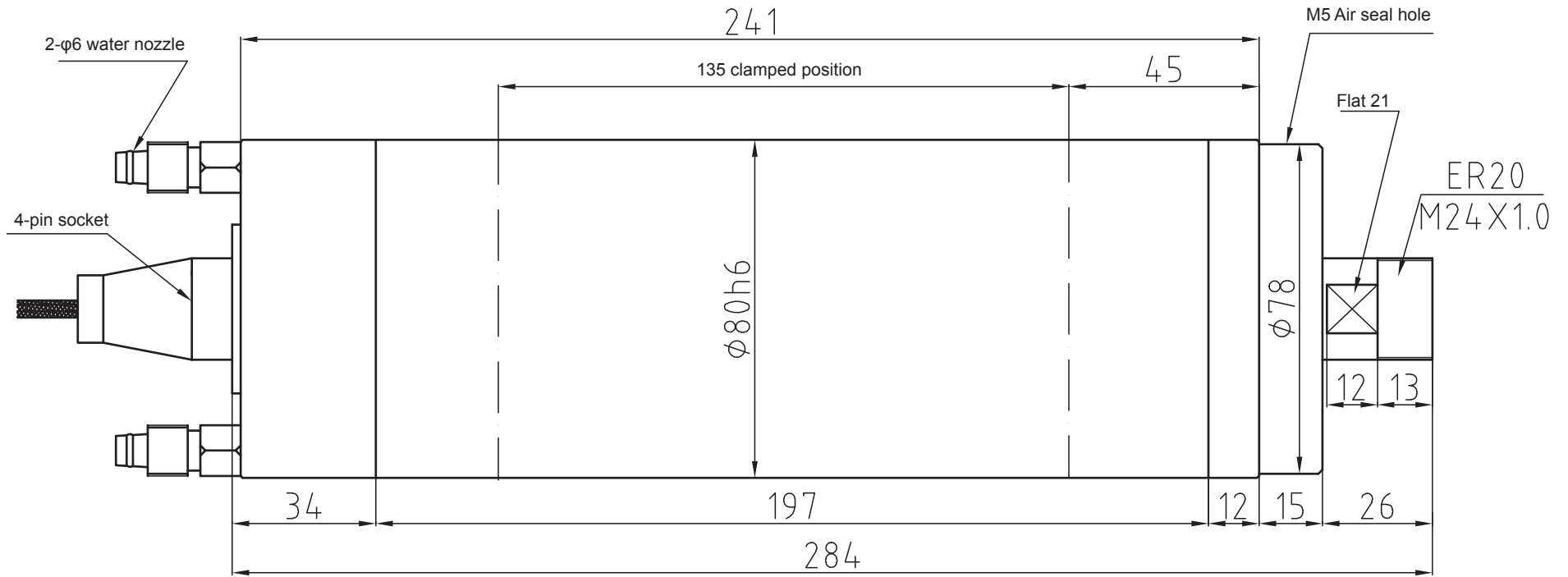


Wiring description


| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

|              |                  |        |                          |           |      |                                    |  |        |                 |
|--------------|------------------|--------|--------------------------|-----------|------|------------------------------------|--|--------|-----------------|
|              |                  |        |                          |           |      | Changzhou Hanqi Electric Co., Ltd. |  |        |                 |
|              |                  |        |                          |           |      |                                    |  |        | Outline diagram |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date | Phase mark                         |  | Weight |                 |
| Designed by  |                  |        | Standardized by          |           |      |                                    |  |        |                 |
| Reviewed by  |                  |        |                          |           |      |                                    |  |        |                 |
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|              |                  |        |                          |           |      | GDK58-24Z/0.8                      |  |        |                 |



### GDK80-24Z/2.2

#### Wiring description

| Pin | 4-pin socket  |
|-----|---|
| 1   | U frequency converter phase   |
| 2   | V frequency converter phase   |
| 3   | W frequency converter phase   |
| 4   | Wiring ground  |

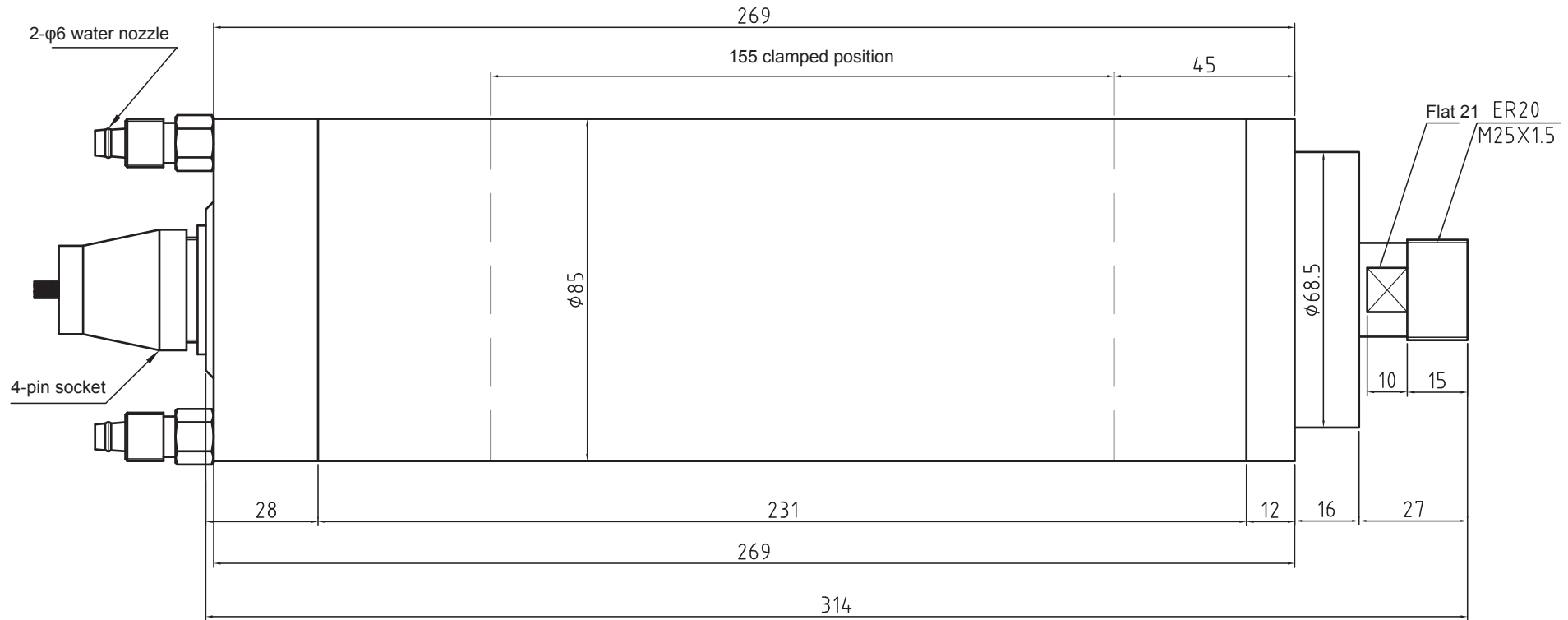
|                      |  |
|----------------------|--|
| Rated power          | 2.2 kw                                     |
| Rated voltage        | 220V                                       |
| Rated rotating speed | 24000 r/min                                |
| Rated frequency      | 400 Hz                                     |
| Rated current        | 7.6 A                                      |
| ER nut               | ER-20                                      |
| Bearing model        | 7005C×2 7002C×2                            |
| Bearing lubrication  | Grease lubrication                         |
| Weight               | 8 KG                                       |
| Rotating mode        | anticlockwise from the shaft extension end |

#### Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                 |  |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-----------------|--|--------|-------|
|              |                  |        |                          |           |      | Two-pole 220V   |  |        |       |
|              |                  |        |                          |           |      | Outline diagram |  |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date | Phase mark      |  | Weight | Scale |
| Designed by  |                  |        | Standardized by          |           |      |                 |  |        |       |
| Reviewed by  |                  |        |                          |           |      |                 |  |        |       |
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|              |                  |        |                          |           |      | GDK80-24Z/2.2   |  |        |       |





Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

GDK85-24Z/2.2-BJ

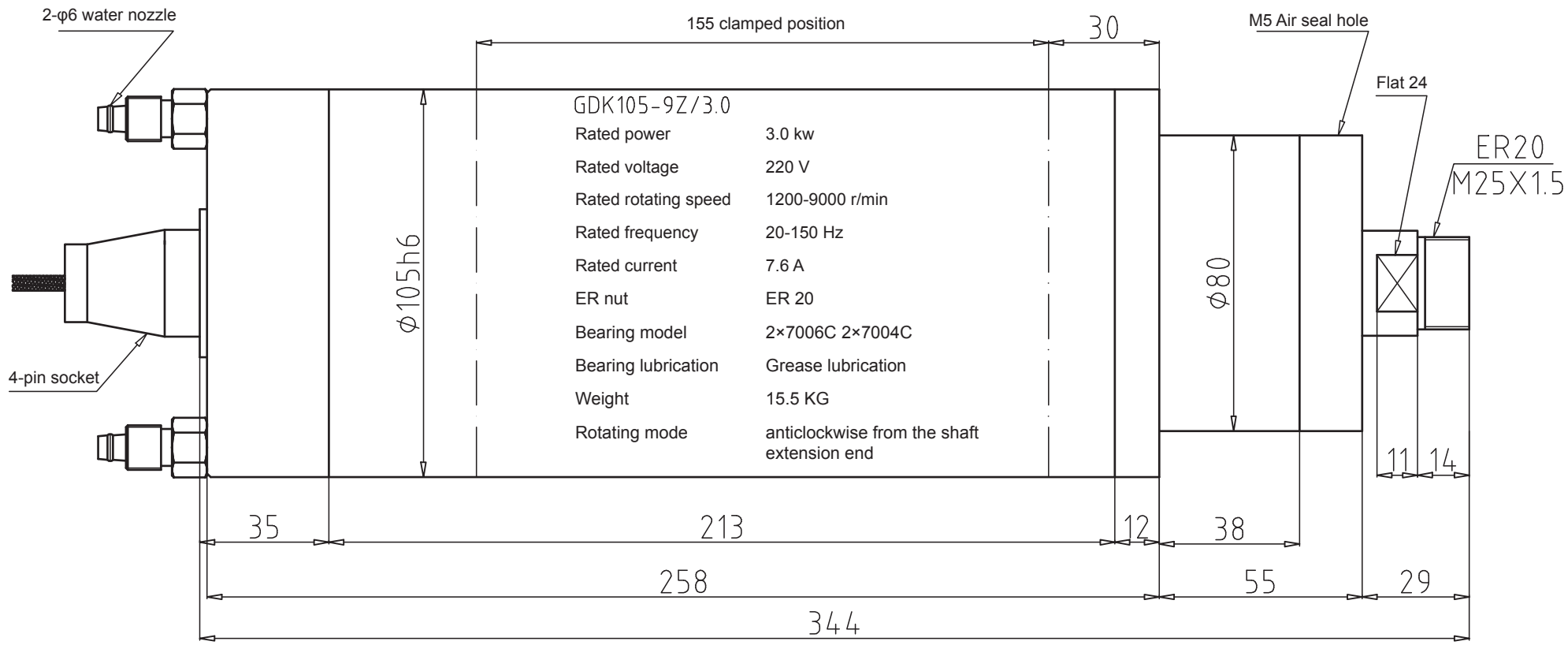
|                      |  |
|----------------------|--|
| Rated power          | 2.2 kw                                     |
| Rated voltage        | 220V                                       |
| Rated rotating speed | 24000 r/min                                |
| Rated frequency      | 400 Hz                                     |
| Rated current        | 7.6 A                                      |
| ER nut               | ER-20                                      |
| Bearing model        | 7005C×2 7002C×2/Steel ball                 |
| Bearing lubrication  | Grease lubrication                         |
| Weight               | 10 KG                                      |
| Rotating mode        | anticlockwise from the shaft extension end |

Special warning:

- The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
- The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                  |  |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|------------------|--|--------|-------|
|              |                  |        |                          |           |      | 220V             |  |        |       |
|              |                  |        |                          |           |      | Outline diagram  |  |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date | Phase mark       |  | Weight | Scale |
| Designed by  |                  |        | Standardized by          |           |      |                  |  |        |       |
| Reviewed by  |                  |        |                          |           |      |                  |  |        |       |
| Processed by |                  |        | Approved by              |           |      | Total page(s)    |  | Page   |       |
|              |                  |        |                          |           |      | GDK85-24Z/2.2-BJ |  |        |       |





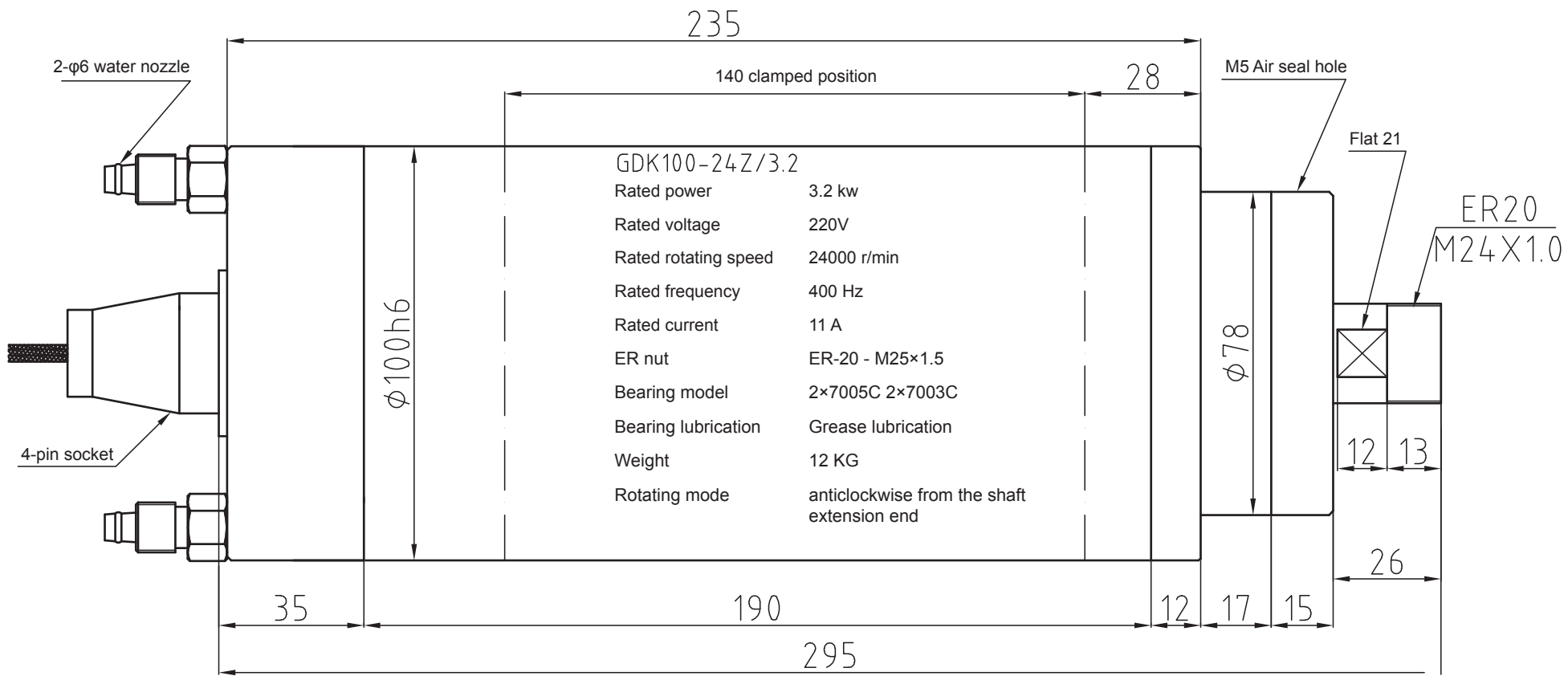
**Special warning:**

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

**Wiring description**

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

|              |                  |        |                          |           |      | 220V                          |        |       |  |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------------------|--------|-------|--|
|              |                  |        |                          |           |      | <b>Outline diagram</b>        |        |       |  |
|              |                  |        |                          |           |      | GDK105 drilling press spindle |        |       |  |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                               |        |       |  |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark                    | Weight | Scale |  |
| Reviewed by  |                  |        |                          |           |      |                               |        |       |  |
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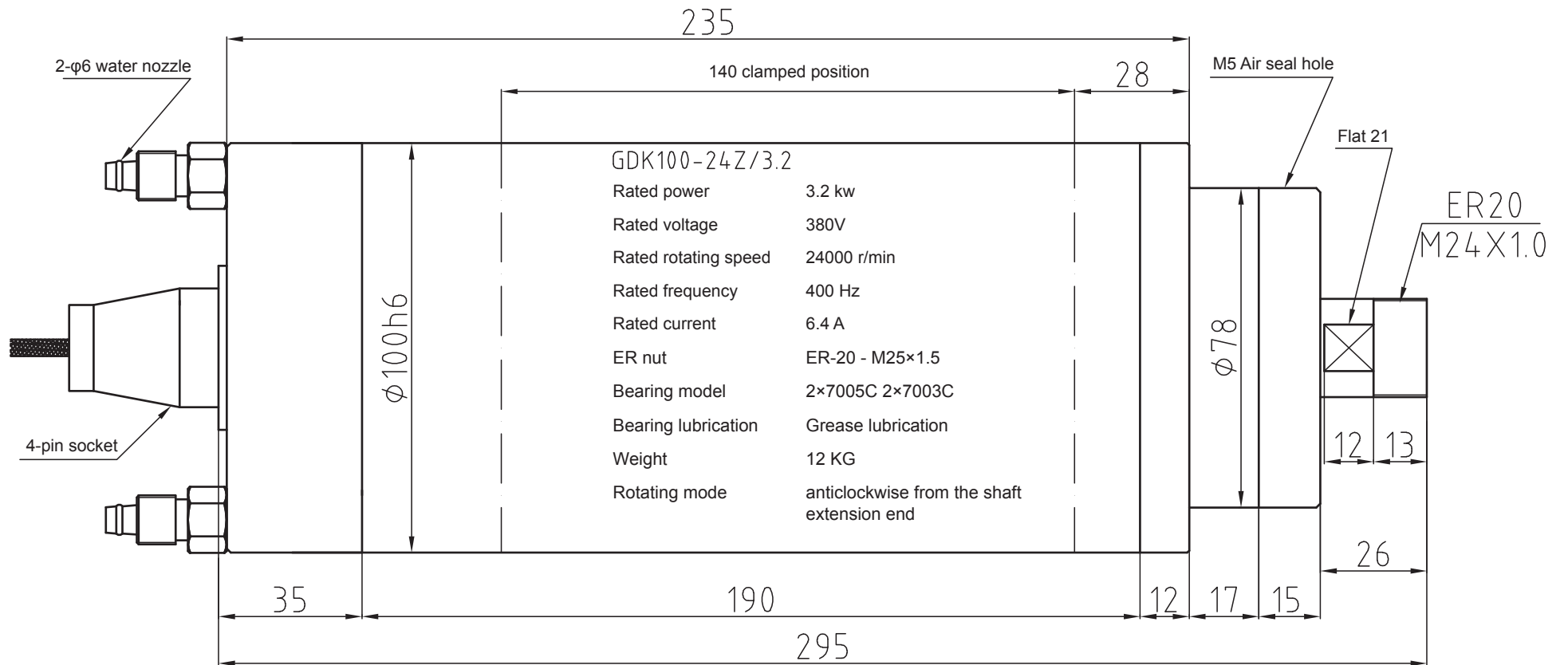
Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground ⊕             |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                               |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------------------|--------|-------|
|              |                  |        |                          |           |      | Two-pole constant torque 220V |        |       |
|              |                  |        |                          |           |      | Outline diagram               |        |       |
|              |                  |        |                          |           |      | GDK100-24Z/3.2                |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                               |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark                    | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                               |        |       |
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Wiring description

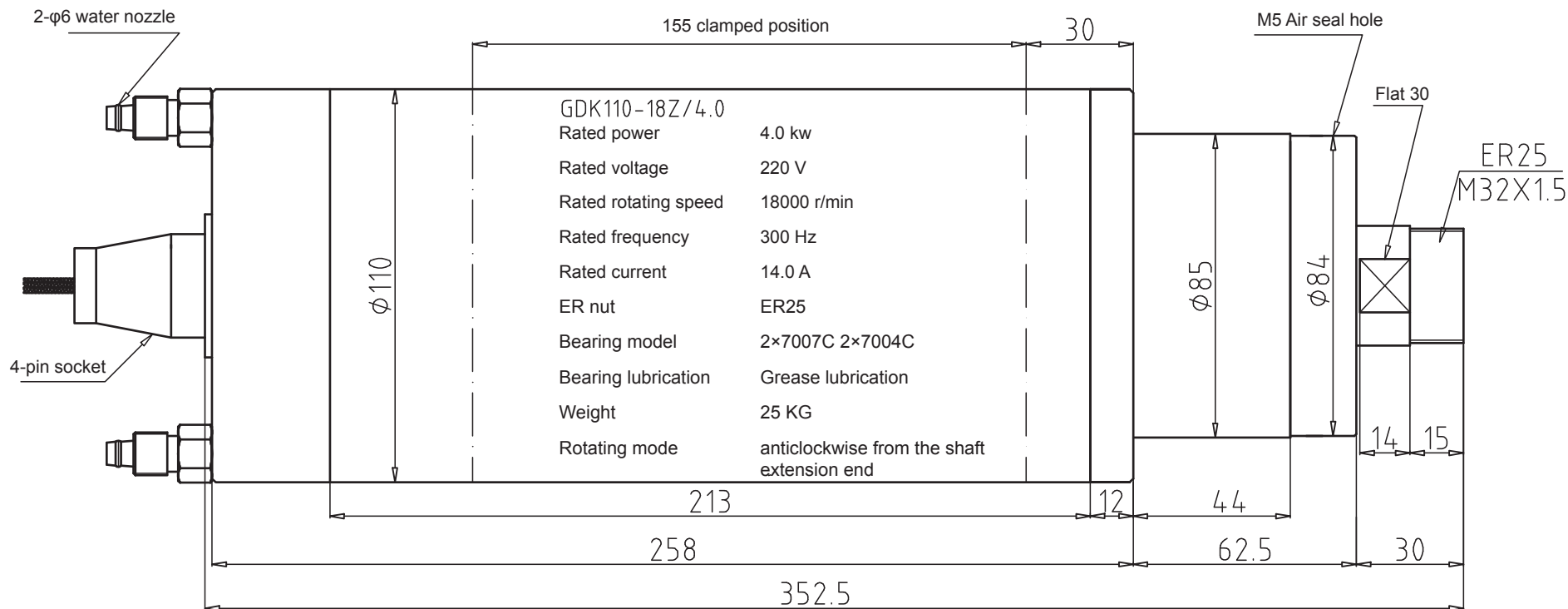
| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground               |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                               |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------------------|--------|-------|
|              |                  |        |                          |           |      | Six-pole constant torque 380V |        |       |
|              |                  |        |                          |           |      | Outline diagram               |        |       |
|              |                  |        |                          |           |      | GDK100-24Z/3.2                |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                               |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark                    | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                               |        |       |
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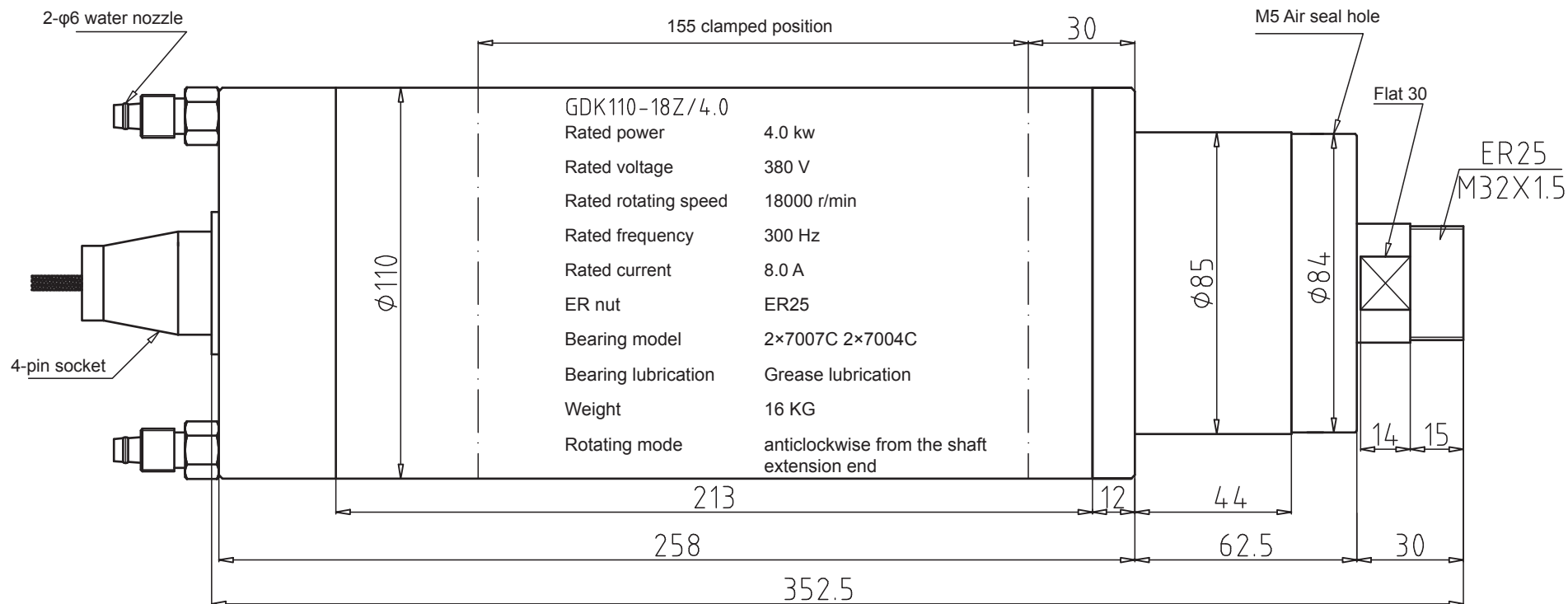
Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                 |  |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-----------------|--|--------|-------|
|              |                  |        |                          |           |      | 220V            |  |        |       |
|              |                  |        |                          |           |      | Outline diagram |  |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date | Phase mark      |  | Weight | Scale |
| Designed by  |                  |        | Standardized by          |           |      |                 |  |        |       |
| Reviewed by  |                  |        |                          |           |      |                 |  |        |       |
| Processed by |                  |        | Approved by              |           |      | Total page(s)   |  | Page   |       |
|              |                  |        |                          |           |      | GDK110-18Z/4.0  |  |        |       |



Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

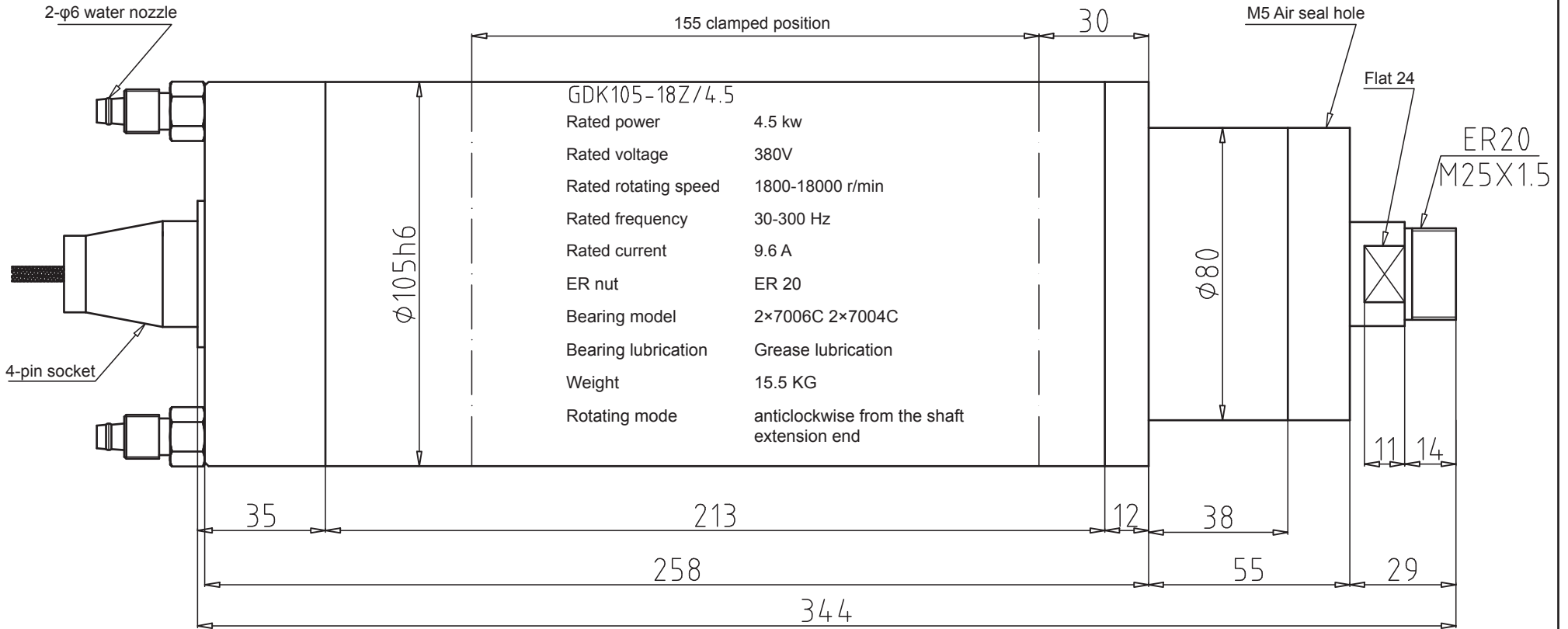
Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

| Marks        | Number of places | Zoning | Modified document number | Signature | Date |               |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|---------------|--------|-------|
| Designed by  |                  |        | Standardized by          |           |      | Phase mark    | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |               |        |       |
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**Outline diagram**

GDK110-18Z/4.0



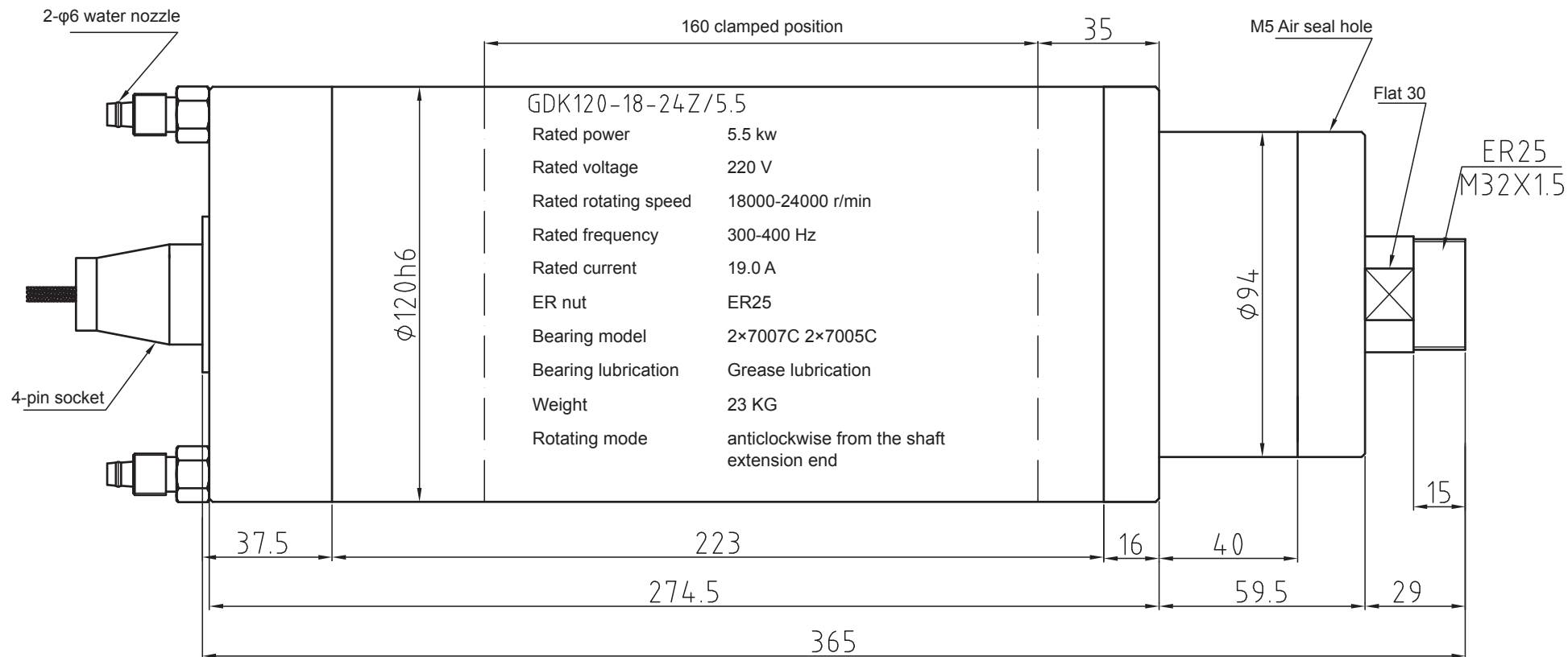
Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                               |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------------------|--------|-------|
|              |                  |        |                          |           |      | 380V                          |        |       |
|              |                  |        |                          |           |      | Outline diagram               |        |       |
|              |                  |        |                          |           |      | GDK105 drilling press spindle |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                               |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark                    | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                               |        |       |
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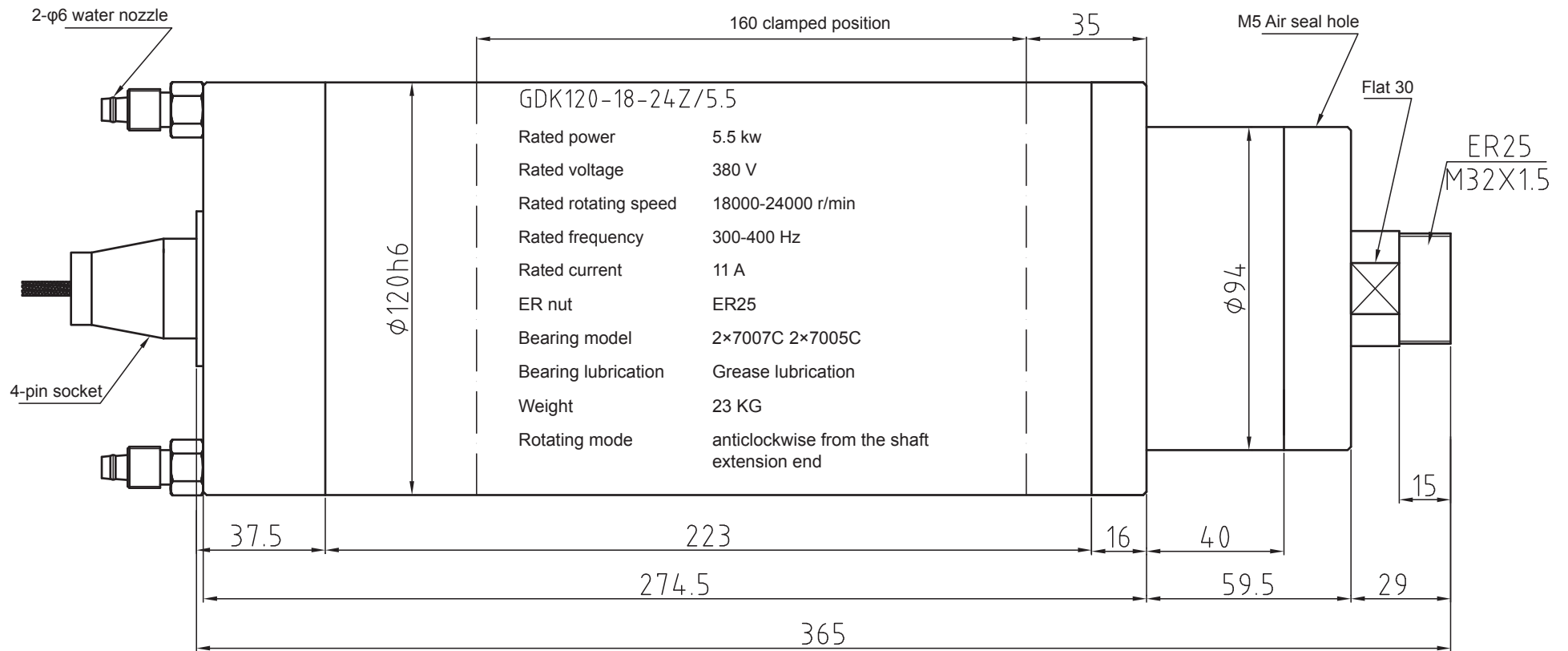
Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground $\oplus$      |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                   |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------|--------|-------|
|              |                  |        |                          |           |      | Two-pole 220V     |        |       |
|              |                  |        |                          |           |      | Outline diagram   |        |       |
|              |                  |        |                          |           |      | GDK120-18-24Z/5.5 |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                   |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark        | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                   |        |       |
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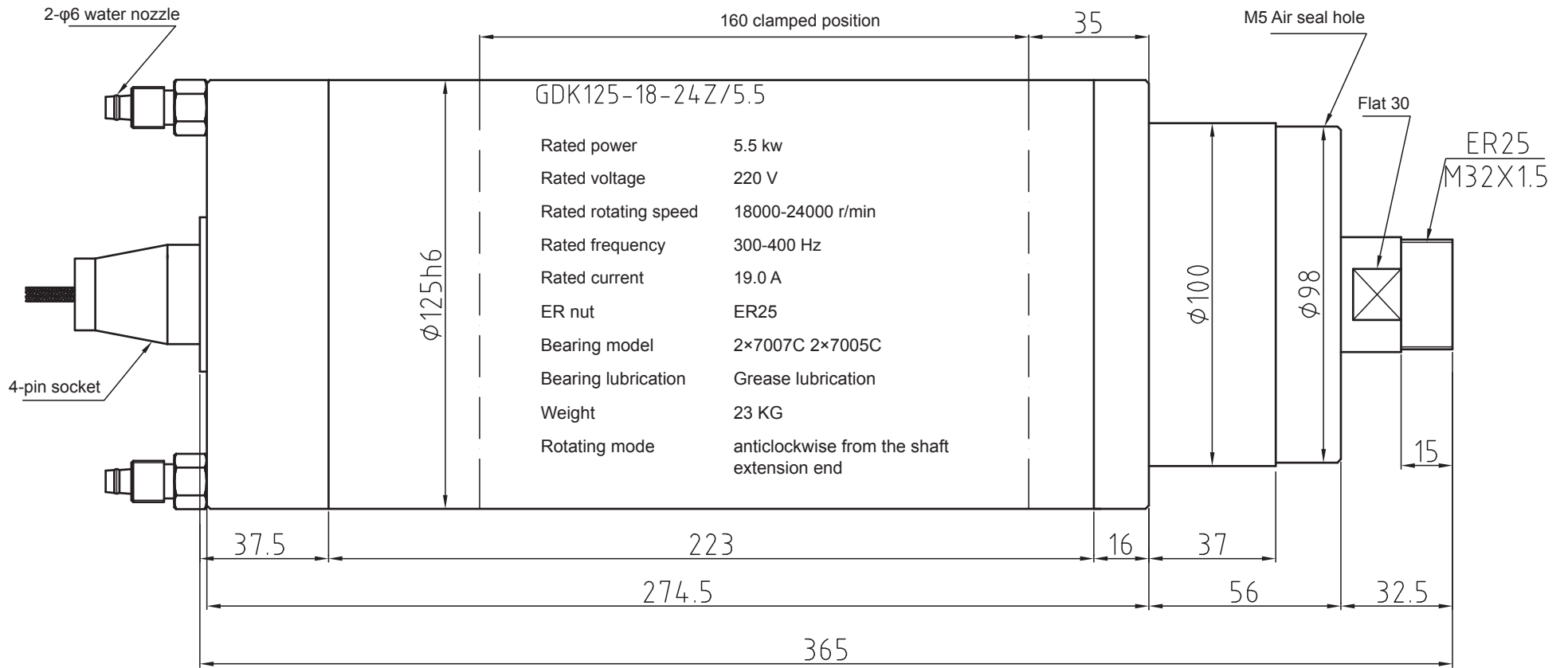
Wiring description

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground               |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                   |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------|--------|-------|
|              |                  |        |                          |           |      | Two-pole 380V     |        |       |
|              |                  |        |                          |           |      | Outline diagram   |        |       |
|              |                  |        |                          |           |      | GDK120-18-24Z/5.5 |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                   |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark        | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                   |        |       |
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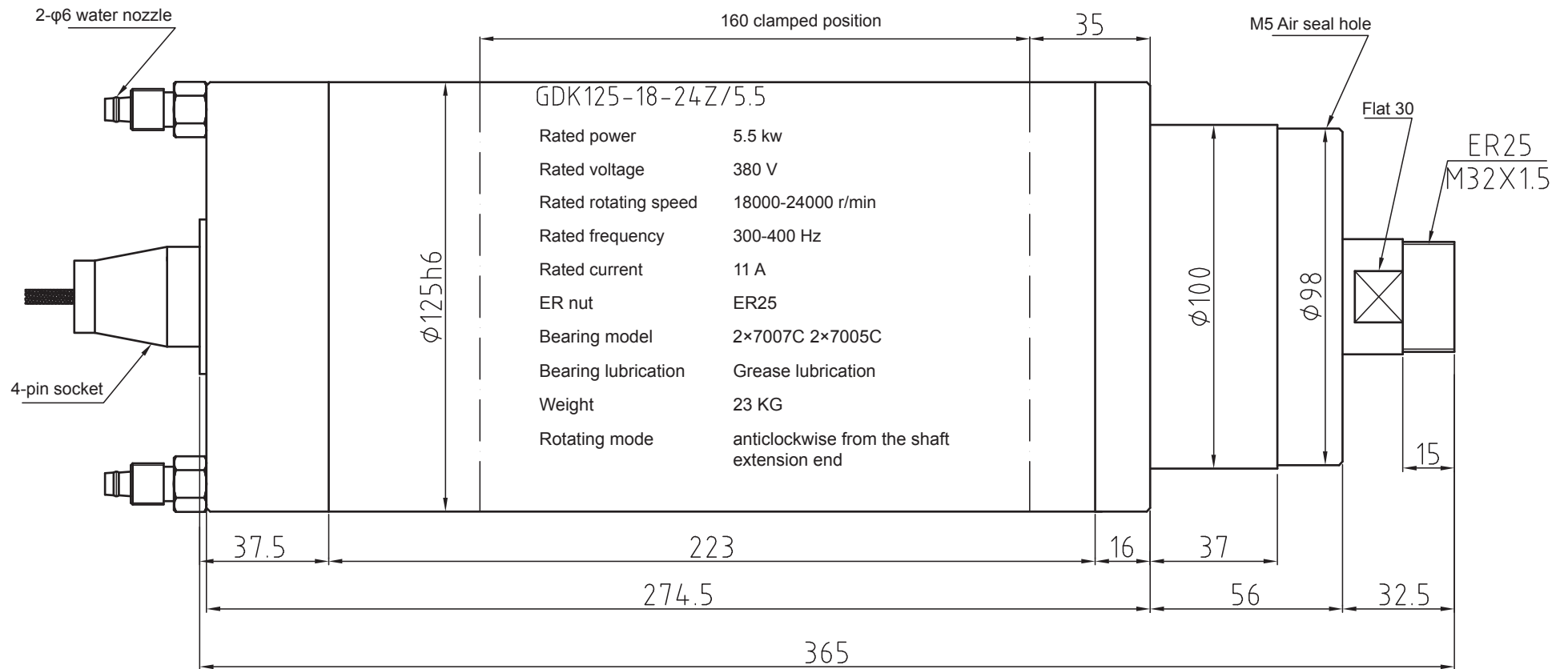
**Wiring description**

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground               |

**Special warning:**

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                   |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------|--------|-------|
|              |                  |        |                          |           |      | Two-pole 220V     |        |       |
|              |                  |        |                          |           |      | Outline diagram   |        |       |
|              |                  |        |                          |           |      | GDK125-18-24Z/5.5 |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                   |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark        | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                   |        |       |
| Processed by |                  |        | Approved by              |           |      | Total page(s)     | Page   |       |



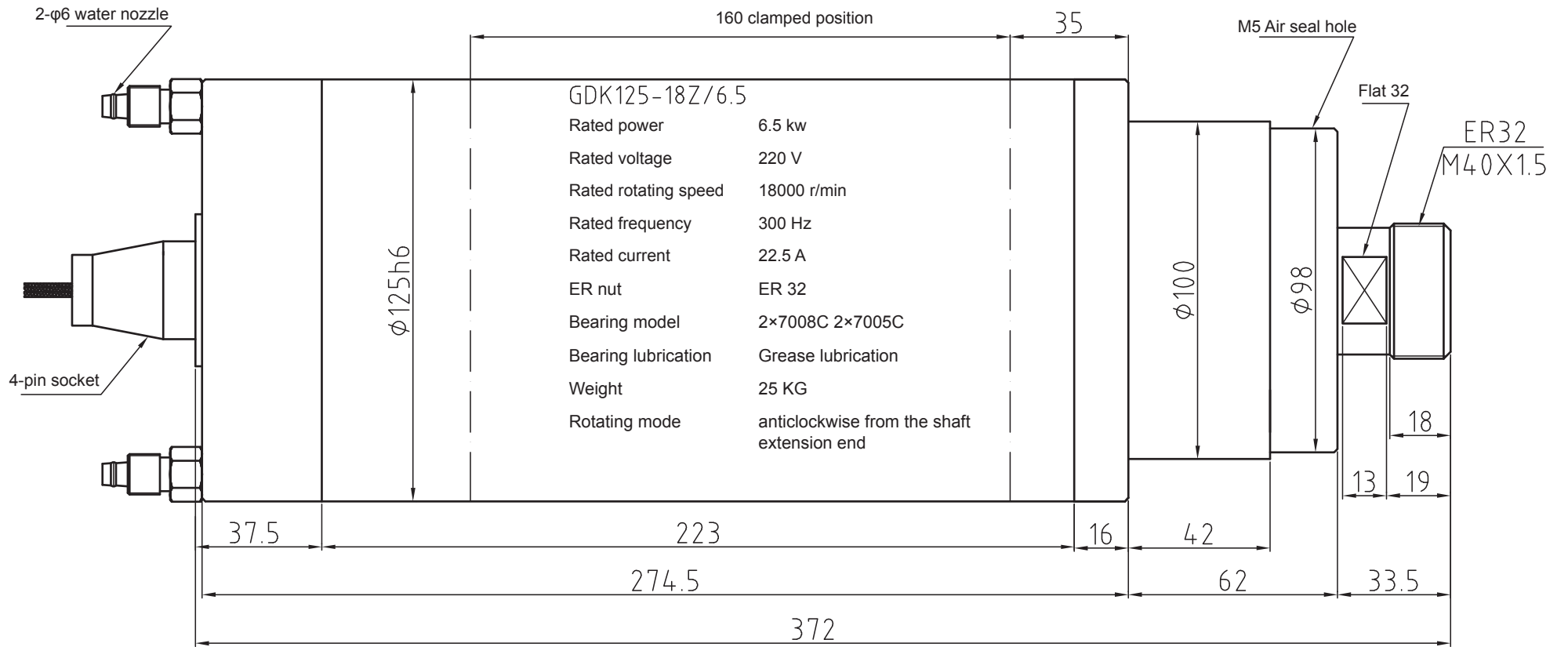
**Wiring description**

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground               |


**Special warning:**

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      | <b>Two-pole 380V</b>   |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|------------------------|--------|-------|
|              |                  |        |                          |           |      | <b>Outline diagram</b> |        |       |
|              |                  |        |                          |           |      | GDK125-18-24Z/5.5      |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                        |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark             | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                        |        |       |
| Processed by |                  |        | Approved by              |           |      | Total page(s)          | Page   |       |



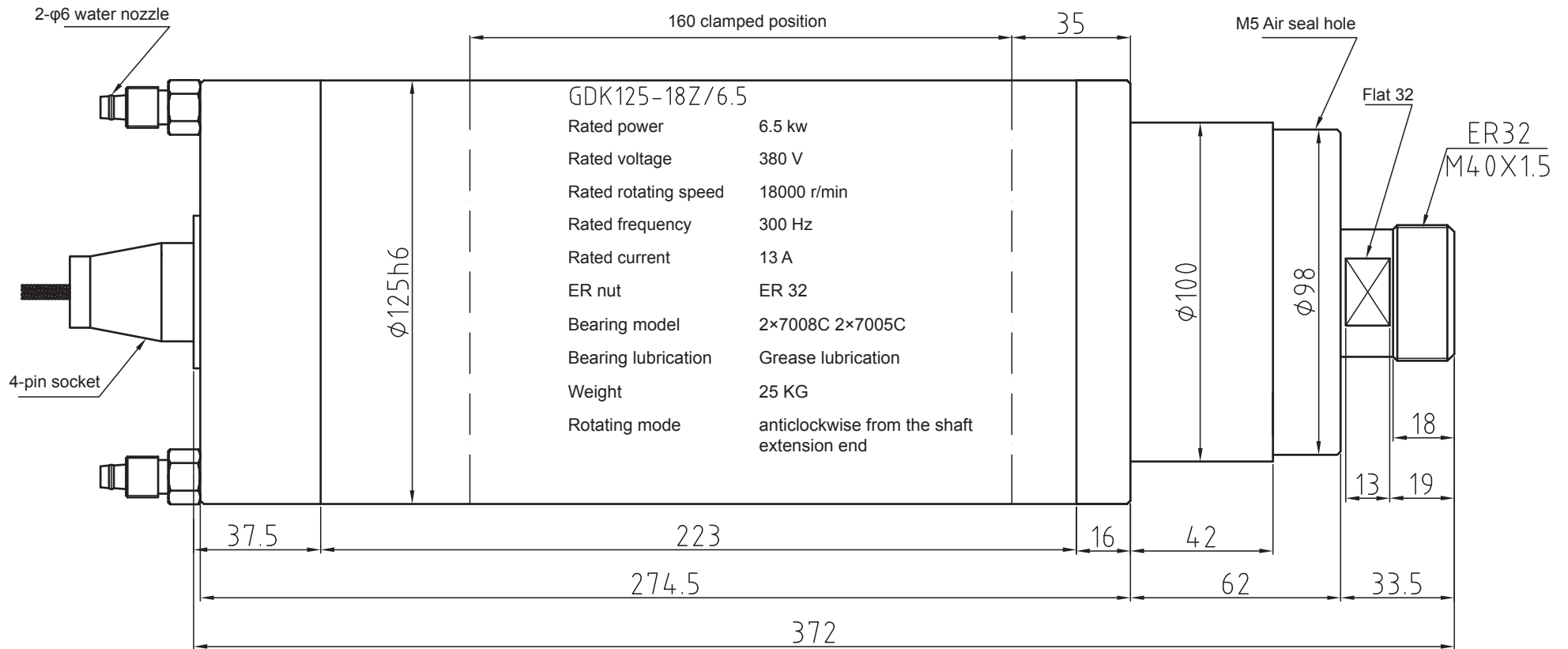
Wiring description

| Pin | 4-pin socket  |
|-----|---|
| 1   | U frequency converter phase   |
| 2   | V frequency converter phase   |
| 3   | W frequency converter phase   |
| 4   | Wiring ground  |

Special warning:

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                               |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|-------------------------------|--------|-------|
|              |                  |        |                          |           |      | Two-pole constant torque 220V |        |       |
|              |                  |        |                          |           |      | Outline diagram               |        |       |
|              |                  |        |                          |           |      | GDK125-18Z/6.5                |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                               |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark                    | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                               |        |       |
| Processed by |                  |        | Approved by              |           |      | Total page(s)                 | Page   |       |



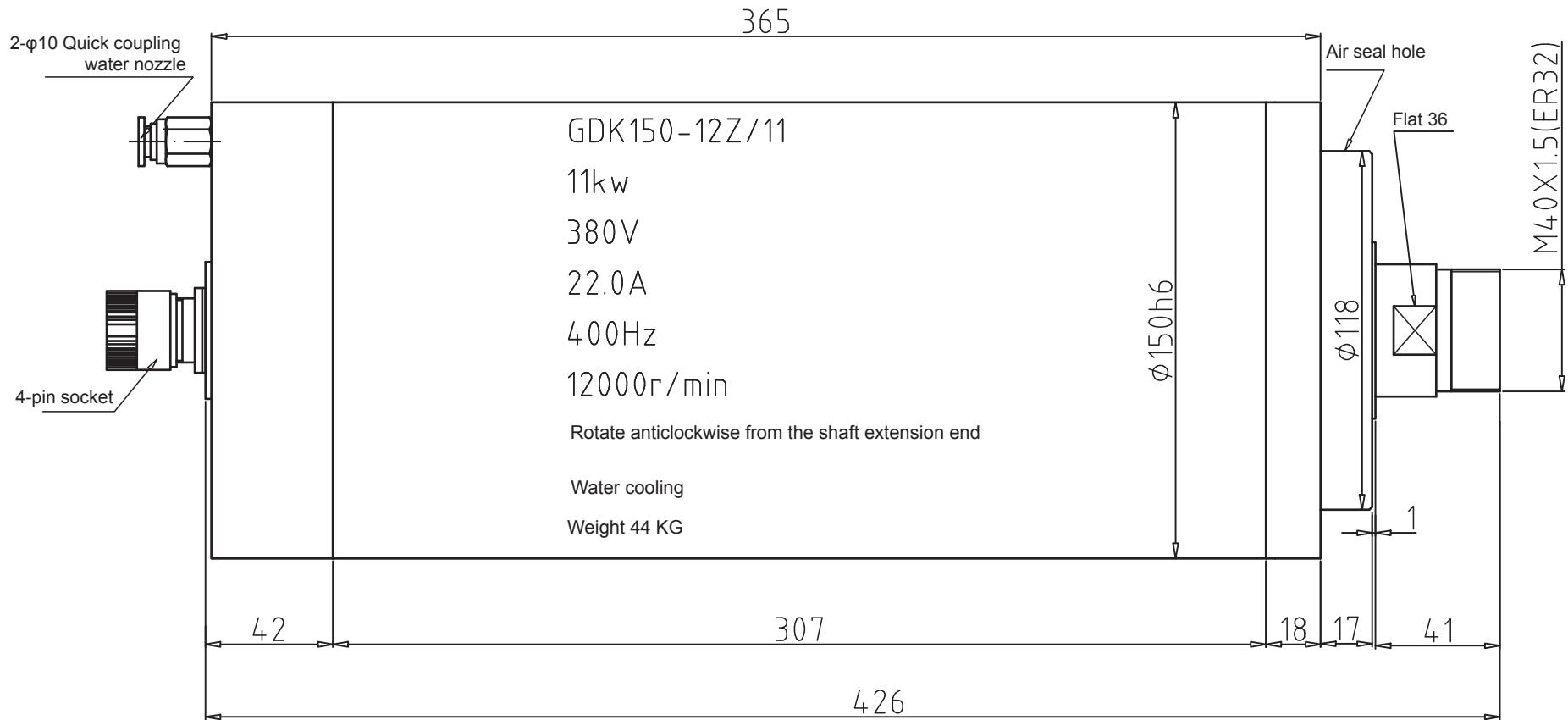
**Wiring description**

| Pin | 4-pin socket                |
|-----|-----------------------------|
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground               |

**Special warning:**

1. The electric main shaft shall be installed at the clamped position; otherwise the bearing will be easily damaged!
2. The compressed air shall be dry and clean, and the filtering accuracy shall be 0.1 micron! Atmospheric pressure is 0.1- 0.2MPa, and the air seal shall be normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5 micron/0.1 micron respectively, and the air filter shall have automatic discharge device.

|              |                  |        |                          |           |      |                                      |        |       |
|--------------|------------------|--------|--------------------------|-----------|------|--------------------------------------|--------|-------|
|              |                  |        |                          |           |      | <b>Two-pole constant torque 380V</b> |        |       |
|              |                  |        |                          |           |      | <b>Outline diagram</b>               |        |       |
|              |                  |        |                          |           |      | GDK125-18Z/6.5                       |        |       |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                                      |        |       |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark                           | Weight | Scale |
| Reviewed by  |                  |        |                          |           |      |                                      |        |       |
| Processed by |                  |        | Approved by              |           |      | Total page(s)                        | Page   |       |



Wiring description

|     |                             |
|-----|-----------------------------|
| Pin | 4-pin socket                |
| 1   | U frequency converter phase |
| 2   | V frequency converter phase |
| 3   | W frequency converter phase |
| 4   | Wiring ground ⊕             |

|              |                  |        |                          |           |      |               |        |               |                        |
|--------------|------------------|--------|--------------------------|-----------|------|---------------|--------|---------------|------------------------|
|              |                  |        |                          |           |      |               |        |               | <b>Outline diagram</b> |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |               |        |               |                        |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark    | Weight | Scale         |                        |
| Reviewed by  |                  |        |                          |           |      |               |        |               |                        |
| Processed by |                  |        | Approved by              |           |      | Total page(s) | Page   | GDK150-12Z/11 |                        |