



## AC INDUCTION MOTORS WITH GEARBOX | 120 | 230 V 6 - 120 W

### AIS SERIES

We offer a broad range of high quality AC induction motors in standard and customized configurations. Our customer-centric approach makes us the ideal supplier for your project, especially to instrument and apparatus builders. In addition, we offer immediate delivery, thanks to always having a high number of motors in stock.

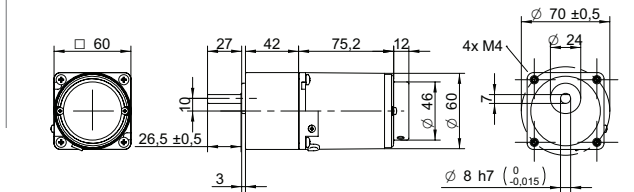
#### Customizations include:

- ✓ Customized harness
- ✓ Winding configuration
- ✓ Shaft configuration
- ✓ And more...

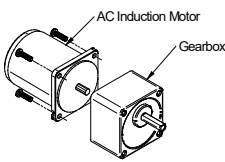
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| AIS-015W | 120   230 | 1             | 50   60      | 70            | 15      | <a href="#">3</a>  |
| AIS-025W | 120   230 | 1             | 50   60      | 80            | 25      | <a href="#">5</a>  |
| AIS-040W | 120   230 | 1             | 50   60      | 90            | 40      | <a href="#">7</a>  |
| AIS-060W | 120   230 | 1             | 50   60      | 90            | 60      | <a href="#">9</a>  |
| AIS-090W | 120   230 | 1             | 50   60      | 90            | 90      | <a href="#">11</a> |
| AIS-120W | 120   230 | 1             | 50   60      | 90            | 120     | <a href="#">13</a> |

DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO

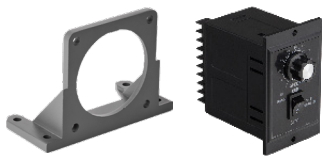


MODEL NO. DESIGNATION

AIS-006W - Voltage - Phase - Connection

Example: AIS-006W-230-SC S = Single phase C = Cable

ACCESSORIES¹



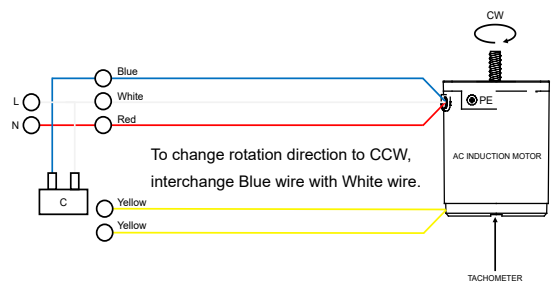
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| GEAR MOTOR DATA    |     |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |      |      |      |      |      |      | C |
|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|---|
| Gear ratio         |     | 3    | 3.6  | 5    | 6    | 7.5  | 9    | 10   | 12.5 | 15   | 18   | 20   | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90   | 100  | 120  | 150  | 180  | 200  |   |
| Nominal torque     | Nm  | 0.13 | 0.16 | 0.22 | 0.27 | 0.33 | 0.40 | 0.45 | 0.56 | 0.67 | 0.80 | 0.80 | 1.0 | 1.2 | 1.4 | 1.6 | 2.0 | 2.2 | 2.7 | 3.0² | 3.0² | 3.0² | 3.0² | 3.0² | 3.0² | ● |
| Nominal speed³     | rpm | 400  | 330  | 240  | 200  | 160  | 130  | 120  | 96   | 80   | 67   | 60   | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13   | 12   | 10   | 8    | 6.7  | 6    |   |
| Nominal power      | W   | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.0  | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.6 | 4.6 | 4.2  | 3.8  | 3.1  | 2.5  | 2.1  | 1.9  |   |
| Gearb. nom. torq.⁴ | Nm  | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3    | 3    | 3    | 3    | 3    | 3    |   |
| Gearbox efficiency | %   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 73   | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66   | 66   | 66   | 66   | 66   | 66   |   |
| Radial load⁵       | N   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 180  | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180  | 180  | 180  | 180  | 180  | 180  |   |
| Direction of rot.  |     | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CCW  | CCW | CCW | CCW | CCW | CCW | CW  | CW  | CW   | CW   | CW   | CW   | CW   | CW   |   |
| Weight             | kg  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |   |

| OTHER GEAR MOTOR DATA  |    | C         |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | Yes   No  |

| GEARBOX DATA        |   | C            |
|---------------------|---|--------------|
| Shaft axial load    | N | 30           |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

WIRING DIAGRAM AC INDUCTION MOTOR



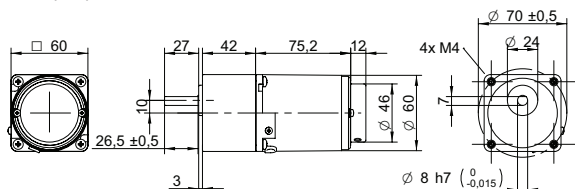
| AC INDUCTION MOTOR DATA        |     | C          |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 230        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 50         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 55         |
| Nominal current                | A   | 0.11       |
| Nominal power                  | W   | 6          |
| Stall torque                   | mNm | 35         |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG20      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | µF  | 0.8        |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 1.1        |

| GEAR MOTOR RANGE AIS-SERIES⁶ |                           |
|------------------------------|---------------------------|
| Nominal voltage              | V See separate datasheet  |
| Nominal power                | W See separate datasheet  |
| Dimension                    | mm See separate datasheet |

NOTES

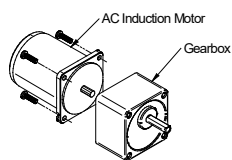
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

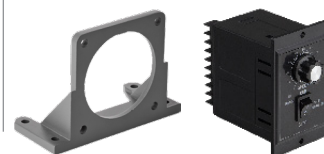
## PHOTO



## MODEL NO. DESIGNATION

AIS-006W - Voltage - Phase - Connection  
 Example: AIS-006W-120-SC S = Single phase C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3    | 3.6  | 5    | 6    | 7.5  | 9    | 10   | 12.5 | 15   | 18   | 20   | 25   | 30  | 36  | 40  | 50  | 60  | 75  | 90   | 100  | 120  | 150  | 180  | 200  | C |
|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|---|
| Gear ratio         |     | 3    | 3.6  | 5    | 6    | 7.5  | 9    | 10   | 12.5 | 15   | 18   | 20   | 25   | 30  | 36  | 40  | 50  | 60  | 75  | 90   | 100  | 120  | 150  | 180  | 200  |   |
| Nominal torque     | Nm  | 0.12 | 0.15 | 0.20 | 0.24 | 0.30 | 0.36 | 0.41 | 0.51 | 0.61 | 0.73 | 0.73 | 0.91 | 1.1 | 1.3 | 1.5 | 1.8 | 2.0 | 2.5 | 3.0² | 3.0² | 3.0² | 3.0² | 3.0² | 3.0² | ● |
| Nominal speed³     | rpm | 400  | 330  | 240  | 200  | 160  | 130  | 120  | 96   | 80   | 67   | 60   | 48   | 40  | 33  | 30  | 24  | 20  | 16  | 13   | 12   | 10   | 8    | 6.7  | 6    |   |
| Nominal power      | W   | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 4.6  | 4.6  | 4.6 | 4.6 | 4.6 | 4.6 | 4.1 | 4.1 | 4.2  | 3.8  | 3.1  | 2.5  | 2.1  | 1.9  |   |
| Gearb. nom. torq.⁴ | Nm  | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3   | 3   | 3   | 3   | 3   | 3   | 3    | 3    | 3    | 3    | 3    | 3    |   |
| Gearbox efficiency | %   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 73   | 73   | 73  | 73  | 73  | 73  | 66  | 66  | 66   | 66   | 66   | 66   | 66   | 66   |   |
| Radial load⁵       | N   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 180  | 180  | 180 | 180 | 180 | 180 | 180 | 180 | 180  | 180  | 180  | 180  | 180  | 180  |   |
| Direction of rot.  |     | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CCW  | CCW  | CCW | CCW | CCW | CCW | CW  | CW  | CW   | CW   | CW   | CW   | CW   | CW   |   |
| Weight             | kg  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |   |

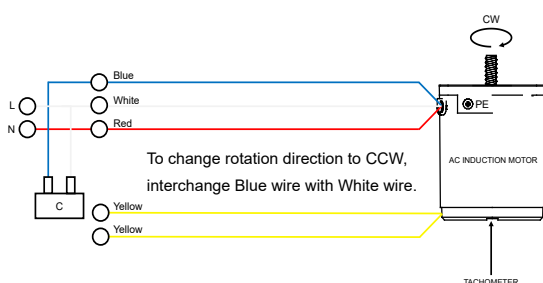
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | No   No   |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 30           |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 120        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 60         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 50         |
| Nominal current                | A   | 0.18       |
| Nominal power                  | W   | 6          |
| Stall torque                   | mNm | 30         |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG20      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 2          |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 1.1        |

## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

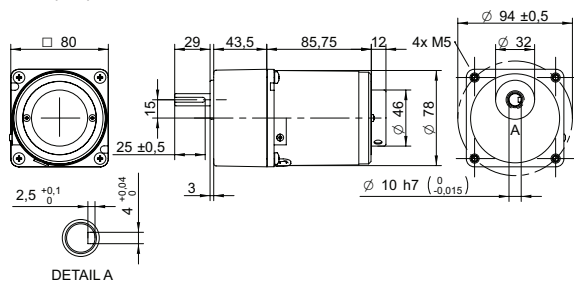
## NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.



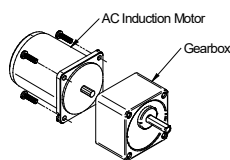


## DRAWING (mm)



AC induction motor and gearbox also sold separately.

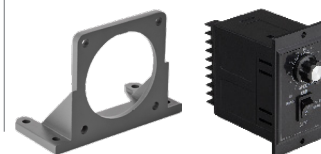
## PHOTO



## MODEL NO. DESIGNATION

AIS-025W - Voltage - Phase - Connection  
Example: AIS-025W-230-SC S = Single phase C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3    | 3.6  | 5    | 6    | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75   | 90   | 100  | 120  | 150  | 180  | 200  | 250  | 300  | 500  | 600  | 750  |   |
|--------------------|-----|------|------|------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|---|
| Gear ratio         |     | 3    | 3.6  | 5    | 6    | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75   | 90   | 100  | 120  | 150  | 180  | 200  | 250  | 300  | 500  | 600  | 750  |   |
| Nominal torque     | Nm  | 0.46 | 0.55 | 0.77 | 0.92 | 1.2 | 1.4 | 1.5 | 1.9  | 2.3 | 2.8 | 2.8 | 3.5 | 4.2 | 5.0 | 5.5 | 6.9 | 7.5 | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | ● |
| Nominal speed³     | rpm | 400  | 330  | 240  | 200  | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16   | 13   | 12   | 10   | 8    | 6.7  | 6    | 4.8  | 4    | 2.4  | 2    | 1.6  |   |
| Nominal power      | W   | 19   | 19   | 19   | 19   | 19  | 19  | 19  | 19   | 19  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 16  | 13   | 11   | 10   | 8.4  | 6.7  | 5.6  | 5.0  | 4.0  | 3.4  | 2.0  | 1.7  | 1.3  |   |
| Gearb. nom. torq.⁴ | Nm  | 8    | 8    | 8    | 8    | 8   | 8   | 8   | 8    | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |   |
| Gearbox efficiency | %   | 81   | 81   | 81   | 81   | 81  | 81  | 81  | 81   | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 59   | 59   | 59   | 59   | 59   |   |
| Radial load⁵       | N   | 150  | 150  | 150  | 150  | 150 | 150 | 150 | 150  | 150 | 150 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  |   |
| Direction of rot.  |     | CW   | CW   | CW   | CW   | CW  | CW  | CW  | CW   | CW  | CW  | CCW | CCW | CCW | CCW | CCW | CCW | CW  | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CCW  | CCW  | CCW  | CCW  | CCW  |   |
| Weight             | kg  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5 | 2.5 | 2.5 | 2.5  | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  |   |

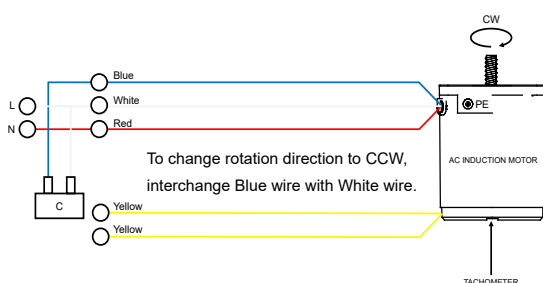
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | Yes   No  |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 50           |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 230        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 50         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 190        |
| Nominal current                | A   | 0.23       |
| Nominal power                  | W   | 25         |
| Stall torque                   | mNm | 88         |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG20      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 1.8        |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 1.7        |

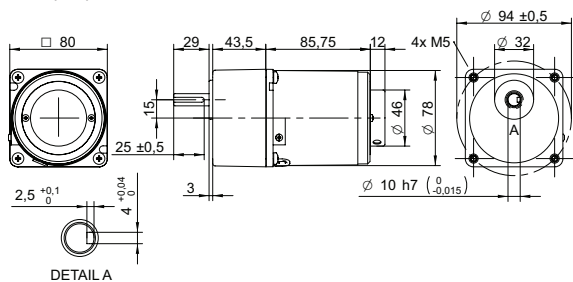
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

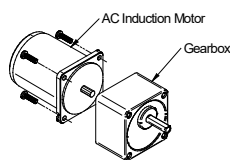
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4. Gearbox nominal torque.
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## DRAWING (mm)



AC induction motor and gearbox also sold separately.

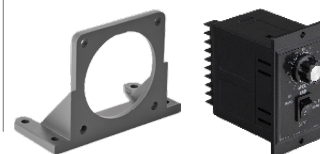
## PHOTO



## MODEL NO. DESIGNATION

AIS-025W - Voltage - Phase - Connection  
Example: AIS-025W-120-SC S = Single phase C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3    | 3.6  | 5    | 6    | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75   | 90   | 100  | 120  | 150  | 180  | 200  | 250  | 300  | 500  | 600  | 750  | C |
|--------------------|-----|------|------|------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|---|
| Gear ratio         |     | 3    | 3.6  | 5    | 6    | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75   | 90   | 100  | 120  | 150  | 180  | 200  | 250  | 300  | 500  | 600  | 750  |   |
| Nominal torque     | Nm  | 0.46 | 0.55 | 0.77 | 0.92 | 1.2 | 1.4 | 1.5 | 1.9  | 2.3 | 2.8 | 2.8 | 3.5 | 4.2 | 5.0 | 5.5 | 6.9 | 7.5 | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | 8.0² | ● |
| Nominal speed³     | rpm | 400  | 330  | 240  | 200  | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16   | 13   | 12   | 10   | 8    | 6.7  | 6    | 4.8  | 4    | 2.4  | 2    | 2.4  |   |
| Nominal power      | W   | 19   | 19   | 19   | 19   | 19  | 19  | 19  | 19   | 19  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 16  | 13   | 11   | 10   | 8.4  | 6.7  | 5.6  | 5.0  | 4.0  | 3.4  | 2.0  | 1.7  | 1.3  |   |
| Gearb. nom. torq.⁴ | Nm  | 8    | 8    | 8    | 8    | 8   | 8   | 8   | 8    | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |   |
| Gearbox efficiency | %   | 81   | 81   | 81   | 81   | 81  | 81  | 81  | 81   | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66   | 66   | 66   | 66   | 66   | 66   | 59   | 59   | 59   | 59   | 59   |      |   |
| Radial load⁵       | N   | 150  | 150  | 150  | 150  | 150 | 150 | 150 | 150  | 150 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  |   |
| Direction of rot.  |     | CW   | CW   | CW   | CW   | CW  | CW  | CW  | CW   | CW  | CCW | CCW | CCW | CCW | CCW | CCW | CW  | CW  | CW   | CW   | CW   | CW   | CW   | CW   | CW   | CCW  | CCW  | CCW  | CCW  | CCW  |   |
| Weight             | kg  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5 | 2.5 | 2.5 | 2.5  | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  |   |

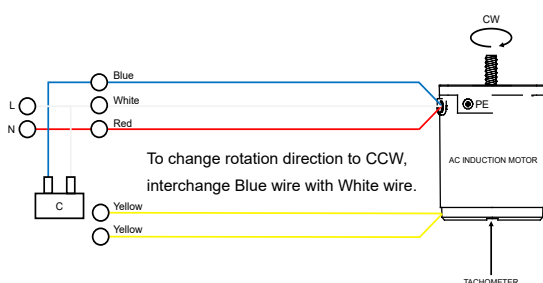
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | No   No   |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 50           |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 120        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 60         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 190        |
| Nominal current                | A   | 0.5        |
| Nominal power                  | W   | 25         |
| Stall torque                   | mNm | 110        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG20      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 7          |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 1.7        |

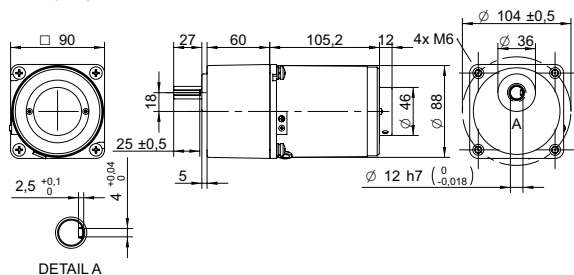
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

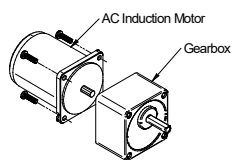
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

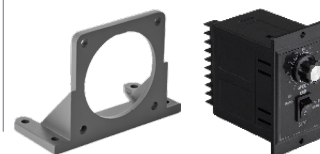
## PHOTO



## MODEL NO. DESIGNATION

Example: AIS-040W - Voltage - Phase - Connection  
S = Single phase C = Cable

## ACCESSORIES¹



¹ C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

| Gear ratio                     |     | 3    | 3.6  | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50              | 60              | 75              | 90              | 100             | 120             | 150             | 180             | 200             | 250             | 300             | 500             | 600             | 750             |     |  |
|--------------------------------|-----|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|--|
| Nominal torque                 | Nm  | 0.73 | 0.87 | 1.2 | 1.5 | 1.8 | 2.2 | 2.4 | 3.0  | 3.6 | 4.4 | 4.4 | 5.5 | 6.6 | 7.9 | 8.8 | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> |     |  |
| Nominal speed <sup>3</sup>     | rpm | 400  | 330  | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24              | 20              | 16              | 13              | 12              | 10              | 8               | 6,7             | 6               | 4,8             | 4               | 2,4             | 2               | 1,6             |     |  |
| Nominal power                  | W   | 31   | 31   | 31  | 31  | 31  | 31  | 31  | 31   | 31  | 31  | 28  | 28  | 28  | 28  | 28  | 25              | 21              | 17              | 14              | 13              | 10              | 8.4             | 7.0             | 6.3             | 5.0             | 4.2             | 2.5             | 2.1             | 1.7             |     |  |
| Gearb. nom. torq. <sup>4</sup> | Nm  | 10   | 10   | 10  | 10  | 10  | 10  | 10  | 10   | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              |     |  |
| Gearbox efficiency             | %   | 81   | 81   | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73              | 66              | 66              | 66              | 66              | 66              | 66              | 66              | 66              | 59              | 59              | 59              | 59              | 59              |     |  |
| Radial load <sup>5</sup>       | N   | 350  | 350  | 350 | 350 | 350 | 350 | 350 | 350  | 350 | 350 | 450 | 450 | 450 | 450 | 450 | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             |     |  |
| Direction of rot.              |     | CW   | CW   | CW  | CW  | CW  | CW  | CW  | CW   | CW  | CW  | CCW | CCW | CCW | CCW | CW  | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CCW             | CCW             | CCW             | CCW             | CCW |  |
| Weight                         | kg  | 3.9  | 3.9  | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9  | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             |     |  |

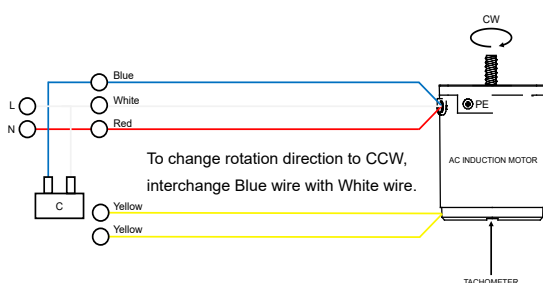
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | Yes   No  |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 100          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 230        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 50         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 300        |
| Nominal current                | A   | 0.4        |
| Nominal power                  | W   | 40         |
| Stall torque                   | mNm | 160        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | µF  | 2.5        |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 2.5        |

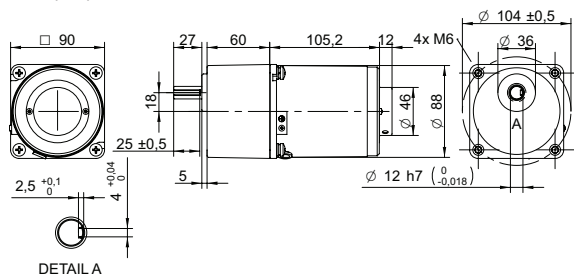
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

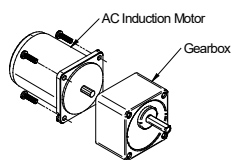
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

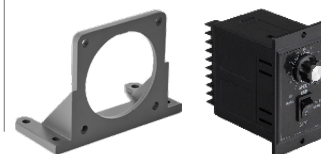
## PHOTO



## MODEL NO. DESIGNATION

AIS-040W - Voltage - Phase - Connection  
Example: AIS-040W-120-SC S = Single phase C = Cable

## ACCESSORIES¹



¹ C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

| Gear ratio                     |     | 3    | 3.6  | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60              | 75              | 90              | 100             | 120             | 150             | 180             | 200             | 250             | 300             | 500             | 600             | 750             |     |
|--------------------------------|-----|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|
| Nominal torque                 | Nm  | 0.63 | 0.76 | 1.1 | 1.3 | 1.6 | 1.9 | 2.1 | 2.6  | 3.2 | 3.8 | 3.8 | 4.7 | 5.7 | 6.8 | 7.6 | 9.5 | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> | 10 <sup>2</sup> |     |
| Nominal speed <sup>3</sup>     | rpm | 400  | 330  | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20              | 16              | 13              | 12              | 10              | 8               | 6,7             | 6               | 4,8             | 4               | 2,4             | 2               | 1,6             |     |
| Nominal power                  | W   | 26   | 26   | 26  | 26  | 26  | 26  | 26  | 26   | 26  | 26  | 24  | 24  | 24  | 24  | 24  | 24  | 21              | 17              | 14              | 13              | 10              | 8.4             | 7.0             | 6.3             | 5.0             | 4.2             | 2.5             | 2.1             | 1.7             |     |
| Gearb. nom. torq. <sup>4</sup> | Nm  | 10   | 10   | 10  | 10  | 10  | 10  | 10  | 10   | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              | 10              |     |
| Gearbox efficiency             | %   | 81   | 81   | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66              | 66              | 66              | 66              | 66              | 66              | 66              | 66              | 59              | 59              | 59              | 59              | 59              |     |
| Radial load <sup>5</sup>       | N   | 350  | 350  | 350 | 350 | 350 | 350 | 350 | 350  | 350 | 350 | 450 | 450 | 450 | 450 | 450 | 450 | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             | 450             |     |
| Direction of rot.              |     | CW   | CW   | CW  | CW  | CW  | CW  | CW  | CW   | CW  | CW  | CCW | CCW | CCW | CCW | CW  | CW  | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CW              | CCW             | CCW             | CCW             | CCW             | CCW |
| Weight                         | kg  | 3.9  | 3.9  | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9  | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             | 3.9             |     |

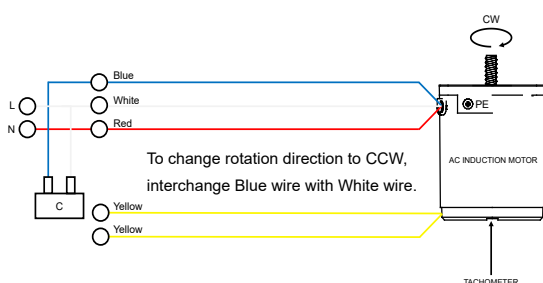
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | No   No   |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 100          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 120        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 60         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 260        |
| Nominal current                | A   | 0.6        |
| Nominal power                  | W   | 40         |
| Stall torque                   | mNm | 180        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 8          |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 2.5        |

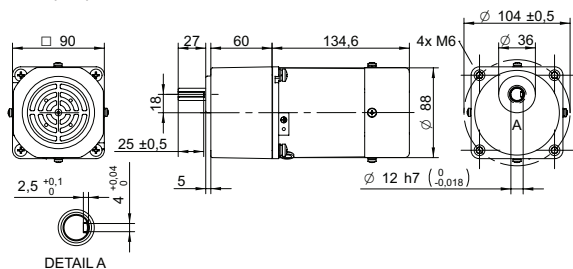
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

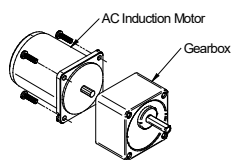
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

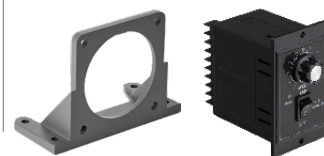
## PHOTO



## MODEL NO. DESIGNATION

AIS-060W - Voltage - Phase - Connection  
Example: AIS-060W-230-SC S = Single phase C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 | 600 | 750 | C   |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gear ratio         |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 | 600 | 750 | ●   |
| Nominal torque     | Nm  | 1.2 | 1.4 | 2.0 | 2.4 | 3.0 | 3.6 | 4.0 | 5.0  | 6.0 | 7.1 | 7.2 | 8.9 | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² |
| Nominal speed³     | rpm | 400 | 330 | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13  | 12  | 10  | 8   | 6.7 | 6   | 4.8 | 4   | 2.4 | 2   | 1.6 |     |
| Nominal power      | W   | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50   | 50  | 50  | 45  | 45  | 42  | 35  | 31  | 25  | 21  | 17  | 14  | 13  | 10  | 8.4 | 7.0 | 6.3 | 5.0 | 4.2 | 2.5 | 2.1 | 1.7 |     |
| Gearb. nom. torq.⁴ | Nm  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10   | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  |     |
| Gearbox efficiency | %   | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 59  | 59  | 59  | 59  | 59  |     |
| Radial load⁵       | N   | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350  | 350 | 350 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 |     |
| Direction of rot.  |     | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW   | CW  | CW  | CCW | CCW | CCW | CCW | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW | CCW | CCW |     |
| Weight             | kg  | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2  | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |     |

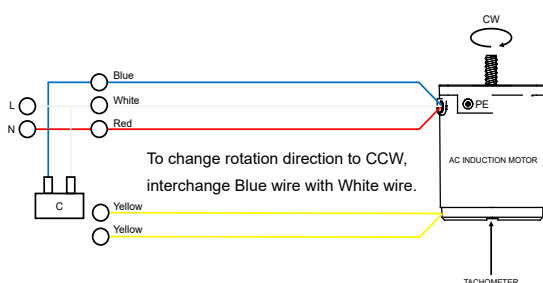
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | Yes   No  |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 100          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 230        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 50         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 490        |
| Nominal current                | A   | 0.55       |
| Nominal power                  | W   | 60         |
| Stall torque                   | mNm | 270        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 4          |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 2.8        |

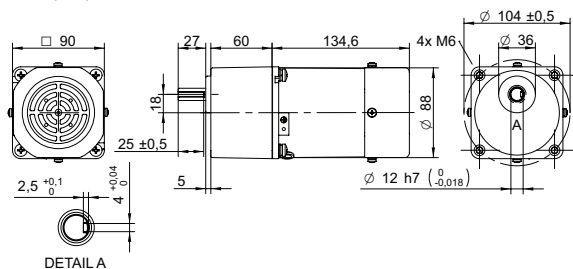
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

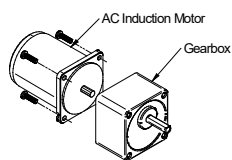
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

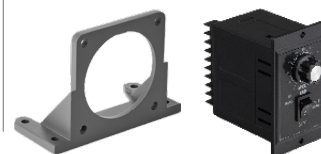
## PHOTO



## MODEL NO. DESIGNATION

AIS-060W - Voltage - Phase - Connection  
 Example: AIS-060W-120-SC      S = Single phase      C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 | 600 | 750 | C |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Gear ratio         |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| Nominal torque     | Nm  | 1.2 | 1.4 | 2.0 | 2.4 | 3.0 | 3.6 | 4.0 | 5.0  | 6.0 | 7.1 | 7.2 | 8.9 | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | 10² | ● |
| Nominal speed³     | rpm | 400 | 330 | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13  | 12  | 10  | 8   | 6.7 | 6   | 4.8 | 4   | 2.4 | 2   | 1.6 |   |
| Nominal power      | W   | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50   | 50  | 50  | 45  | 45  | 42  | 35  | 31  | 25  | 21  | 17  | 14  | 13  | 10  | 8.4 | 7.0 | 6.3 | 5.0 | 4.2 | 2.5 | 2.1 | 1.7 |   |
| Gearb. nom. torq.⁴ | Nm  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10   | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  |   |
| Gearbox efficiency | %   | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 59  | 59  | 59  | 59  | 59  |   |
| Radial load⁵       | N   | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350  | 350 | 350 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 |   |
| Direction of rot.  |     | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW   | CW  | CW  | CCW | CCW | CCW | CCW | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW | CCW | CCW |   |
| Weight             | kg  | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2  | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |   |

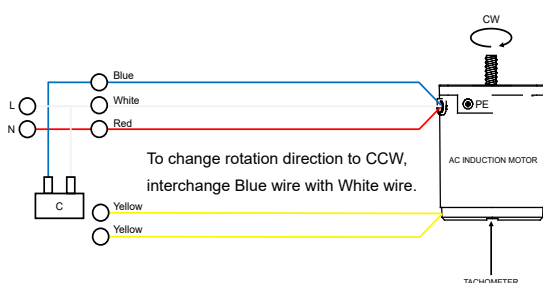
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | No   No   |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 100          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 120        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 60         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 490        |
| Nominal current                | A   | 0.85       |
| Nominal power                  | W   | 60         |
| Stall torque                   | mNm | 270        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 12         |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 2.8        |

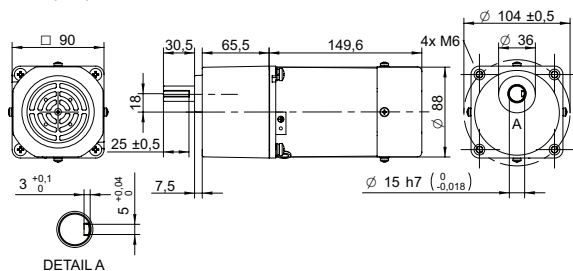
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

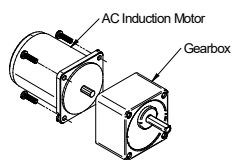
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

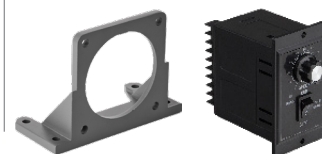
## PHOTO



## MODEL NO. DESIGNATION

AIS-090W - Voltage - Phase - Connection  
Example: AIS-090W-230-SC S = Single phase C = Cable

## ACCESSORIES¹



C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | C |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Gear ratio         |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 |   |
| Nominal torque     | Nm  | 1.7 | 2.1 | 2.9 | 3.5 | 4.3 | 5.2 | 5.8 | 7.2  | 8.6 | 10  | 10  | 13  | 16  | 19  | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² |   |
| Nominal speed³     | rpm | 400 | 330 | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13  | 12  | 10  | 8   | 6.7 | 6   |   |
| Nominal power      | W   | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72   | 72  | 72  | 65  | 65  | 65  | 65  | 63  | 50  | 42  | 34  | 28  | 25  | 21  | 17  | 14  | 13  |   |
| Gearb. nom. torq.⁴ | Nm  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20   | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  |   |
| Gearbox efficiency | %   | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  |   |
| Radial load⁵       | N   | 500 | 500 | 500 | 500 | 500 | 500 | 600 | 600  | 600 | 600 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |   |
| Direction of rot.  |     | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW  | CCW | CCW | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW | CCW | CCW | CCW | CCW |   |
| Weight             | kg  | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5    | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   |   |

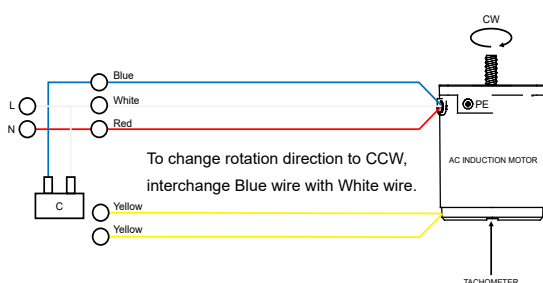
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | Yes   No  |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 150          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 230        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 50         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 710        |
| Nominal current                | A   | 0.95       |
| Nominal power                  | W   | 90         |
| Stall torque                   | mNm | 530        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 5          |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 3.5        |

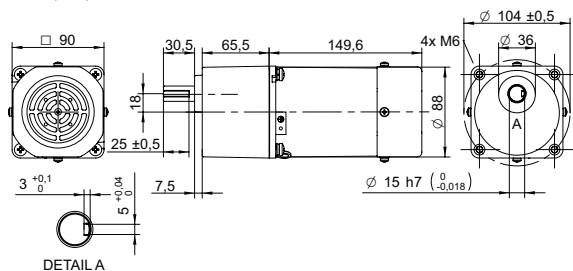
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

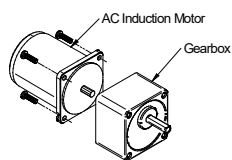
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

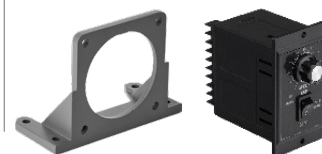
## PHOTO



## MODEL NO. DESIGNATION

AIS-090W - Voltage - Phase - Connection  
Example: AIS-090W-120-SC S = Single phase C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | C   |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gear ratio         |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | ●   |
| Nominal torque     | Nm  | 1.7 | 2.1 | 2.9 | 3.5 | 4.3 | 5.2 | 5.8 | 7.2  | 8.6 | 10  | 10  | 13  | 16  | 19  | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² |
| Nominal speed³     | rpm | 400 | 330 | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13  | 12  | 10  | 8   | 6.7 | 6   |     |
| Nominal power      | W   | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72   | 72  | 72  | 65  | 65  | 65  | 65  | 63  | 50  | 42  | 34  | 28  | 25  | 21  | 17  | 14  | 13  |     |
| Gearb. nom. torq.⁴ | Nm  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20   | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  |     |
| Gearbox efficiency | %   | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  |     |
| Radial load⁵       | N   | 500 | 500 | 500 | 500 | 500 | 500 | 600 | 600  | 600 | 600 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |     |
| Direction of rot.  |     | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW  | CCW | CCW | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW | CCW | CCW | CCW | CCW |     |
| Weight             | kg  | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5    | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   |     |

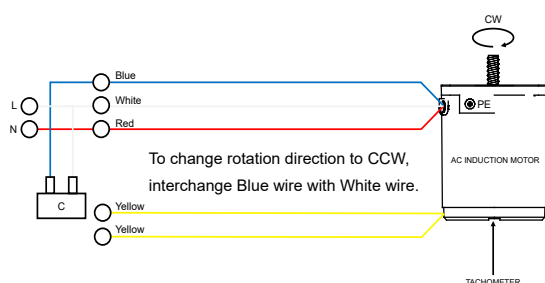
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | No   No   |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 150          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 120        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 60         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 710        |
| Nominal current                | A   | 1.8        |
| Nominal power                  | W   | 90         |
| Stall torque                   | mNm | 530        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | μF  | 20         |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 3.5        |

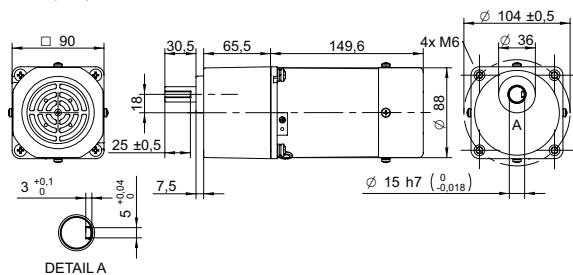
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

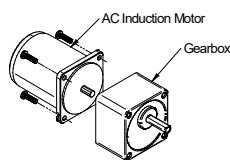
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

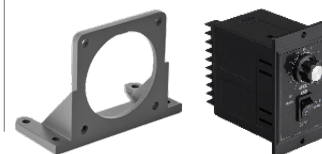
## PHOTO



## MODEL NO. DESIGNATION

AIS-120W - Voltage - Phase - Connection  
 Example: AIS-120W-230-SC S = Single phase C = Cable

## ACCESSORIES¹



¹ C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 |  |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gear ratio         |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 |  |
| Nominal torque     | Nm  | 1.8 | 2.2 | 3.0 | 3.6 | 4.6 | 5.5 | 6.1 | 7.6  | 9.1 | 11  | 11  | 14  | 16  | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² |  |
| Nominal speed³     | rpm | 400 | 330 | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13  | 12  | 10  | 8   | 6.7 | 6   |  |
| Nominal power      | W   | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76   | 76  | 76  | 69  | 69  | 69  | 70  | 63  | 50  | 42  | 34  | 28  | 25  | 21  | 17  | 14  | 13  |  |
| Gearb. nom. torq.⁴ | Nm  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20   | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  |  |
| Gearbox efficiency | %   | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  |  |
| Radial load⁵       | N   | 500 | 500 | 500 | 500 | 500 | 500 | 600 | 600  | 600 | 600 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |  |
| Direction of rot.  |     | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW  | CCW | CCW | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW | CCW | CCW | CCW | CCW |  |
| Weight             | kg  | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8  | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |  |

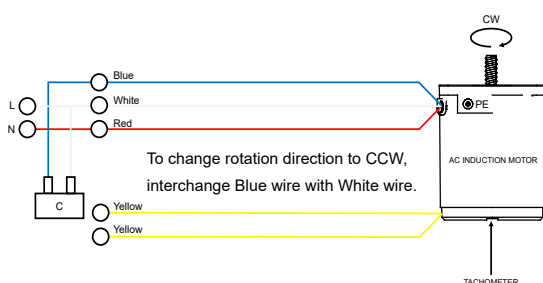
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | Yes   No  |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 150          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

|                                |     |            |
|--------------------------------|-----|------------|
| Nominal voltage                | V   | 230        |
| No. of phases                  |     | 1          |
| Frequency                      | Hz  | 50         |
| No. of poles                   |     | 4          |
| Nominal speed                  | rpm | 90 to 1200 |
| Nominal torque                 | mNm | 750        |
| Nominal current                | A   | 1.2        |
| Nominal power                  | W   | 120        |
| Stall torque                   | mNm | 720        |
| Insulation class               |     | B          |
| Motor cable                    |     | AWG18      |
| Signal cable                   |     | AWG22      |
| Motor and signal cable length  | mm  | 300        |
| Capacitor included in delivery | µF  | 8          |
| Insulation resistance          | MΩ  | 100        |
| Dielectric strength            | kV  | 1.5        |
| Max. winding temperature       | °C  | 80         |
| Weight                         | kg  | 3.3        |

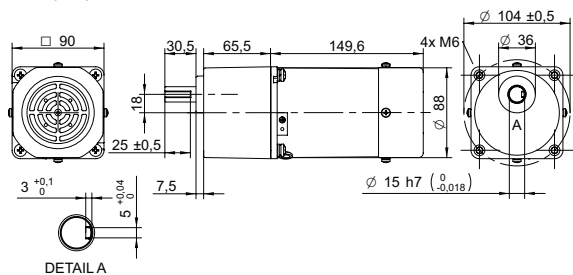
## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

## NOTES

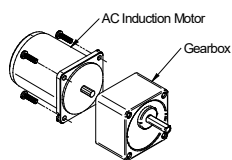
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## DRAWING (mm)



AC induction motor and gearbox also sold separately.

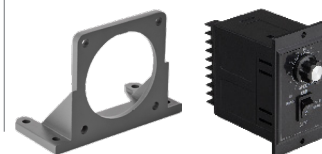
## PHOTO



## MODEL NO. DESIGNATION

AIS-120W - Voltage - Phase - Connection  
 Example: AIS-120W-120-SC S = Single phase C = Cable

## ACCESSORIES¹



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## GEAR MOTOR DATA

|                    |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | C   |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gear ratio         |     | 3   | 3.6 | 5   | 6   | 7.5 | 9   | 10  | 12.5 | 15  | 18  | 20  | 25  | 30  | 36  | 40  | 50  | 60  | 75  | 90  | 100 | 120 | 150 | 180 | 200 | ●   |
| Nominal torque     | Nm  | 1.8 | 2.2 | 3.0 | 3.6 | 4.6 | 5.5 | 6.1 | 7.6  | 9.1 | 11  | 11  | 14  | 16  | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² | 20² |
| Nominal speed³     | rpm | 400 | 330 | 240 | 200 | 160 | 130 | 120 | 96   | 80  | 67  | 60  | 48  | 40  | 33  | 30  | 24  | 20  | 16  | 13  | 12  | 10  | 8   | 6.7 | 6   |     |
| Nominal power      | W   | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76   | 76  | 76  | 69  | 69  | 69  | 70  | 63  | 50  | 42  | 34  | 28  | 25  | 21  | 17  | 14  | 13  |     |
| Gearb. nom. torq.⁴ | Nm  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20   | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  |     |
| Gearbox efficiency | %   | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81   | 81  | 81  | 73  | 73  | 73  | 73  | 73  | 73  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  |     |
| Radial load⁵       | N   | 500 | 500 | 500 | 500 | 500 | 500 | 600 | 600  | 600 | 600 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |     |
| Direction of rot.  |     | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW  | CCW | CCW | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CW  | CCW | CCW | CCW | CCW | CCW | CCW |     |
| Weight             | kg  | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8  | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |     |

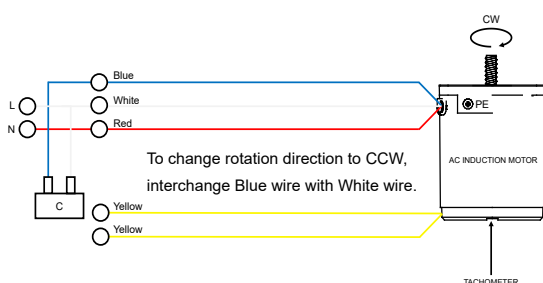
## OTHER GEAR MOTOR DATA

|                        |    |           |
|------------------------|----|-----------|
| Service life           | h  | 10000     |
| Performance tolerances |    | ± 15      |
| Operating temperature  | °C | -10 to 40 |
| IP rating              |    | IP20      |
| Manufacturing standard |    | ISO 9001  |
| CE label   UL label    |    | No   No   |

## GEARBOX DATA

|                     |   |              |
|---------------------|---|--------------|
| Shaft axial load    | N | 150          |
| Bearing type        |   | Ball bearing |
| Shaft material      |   | 40 Cr steel  |
| Housing material    |   | Aluminum     |
| Material gear stage |   | 40 Cr steel  |

## WIRING DIAGRAM AC INDUCTION MOTOR



## AC INDUCTION MOTOR DATA

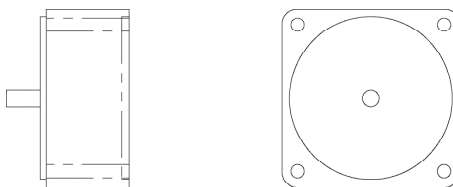
|                                |     |       |
|--------------------------------|-----|-------|
| Nominal voltage                | V   | 120   |
| No. of phases                  |     | 1     |
| Frequency                      | Hz  | 60    |
| No. of poles                   |     | 4     |
| Nominal speed                  | rpm | 1200  |
| Nominal torque                 | mNm | 750   |
| Nominal current                | A   | 1.9   |
| Nominal power                  | W   | 120   |
| Stall torque                   | mNm | 720   |
| Insulation class               |     | B     |
| Motor cable                    |     | AWG18 |
| Signal cable                   |     | AWG22 |
| Motor and signal cable length  | mm  | 300   |
| Capacitor included in delivery | μF  | 20    |
| Insulation resistance          | MΩ  | 100   |
| Dielectric strength            | kV  | 1.5   |
| Max. winding temperature       | °C  | 80    |
| Weight                         | kg  | 3.3   |

## GEAR MOTOR RANGE AIS-SERIES⁶

|                 |    |                        |
|-----------------|----|------------------------|
| Nominal voltage | V  | See separate datasheet |
| Nominal power   | W  | See separate datasheet |
| Dimension       | mm | See separate datasheet |

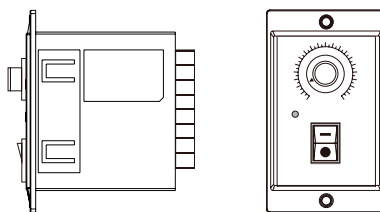
## NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gear motor nominal speed based on AC induction motor nominal speed of 1200 rpm.
4. Gearbox nominal torque.
5. 20 mm from shaft.
6. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

DECIMAL GEARBOX<sup>1</sup>

## DECIMAL GEARBOX DATA

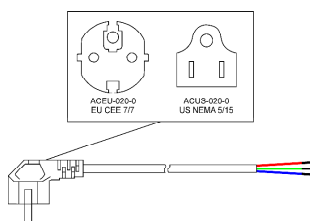
|                        |                                                                                                                        |           |           |                     |                     |
|------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------------------|---------------------|
| Model designation      | S60A-Y010                                                                                                              | S70A-Y010 | S80A-Y010 | S90A-Y010           | S90B-Y010           |
| Gear ratio             | 10:1                                                                                                                   | 10:1      | 10:1      | 10:1                | 10:1                |
| Gearbox nominal torque | Nm                                                                                                                     | 3         | 5         | 8                   | 10                  |
| Description            | Connected between AC motor and existing gearbox to decrease the speed further than the gear ratio listed in the table. |           |           |                     |                     |
| Compatible models      | AIS-006W                                                                                                               | AIS-015W  | AIS-025W  | AIS-040W   AIS-060W | AIS-090W   AIS-120W |

SPEED CONTROLLER<sup>1</sup>

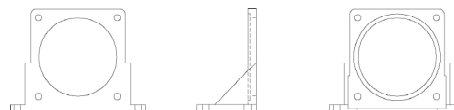
## SPEED CONTROLLER DATA

|                   |                         |                         |                         |                         |                         |                         |                         |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Model designation | DA-110-006   DA-230-006 | DA-110-015   DA-230-015 | DA-110-025   DA-230-025 | DA-110-040   DA-230-040 | DA-110-060   DA-230-060 | DA-110-090   DA-230-090 | DA-110-120   DA-230-120 |
| Voltage           | 110   230               | 110   230               | 110   230               | 110   230               | 110   230               | 110   230               | 110   230               |
| Nominal power     | W                       | 6                       | 15                      | 25                      | 40                      | 60                      | 90                      |
| Compatible models | AIS-006W                | AIS-015W                | AIS-025W                | AIS-040W                | AIS-060W                | AIS-090W                | AIS-120W                |

## POWER CABLE



## MOUNTING BRACKET



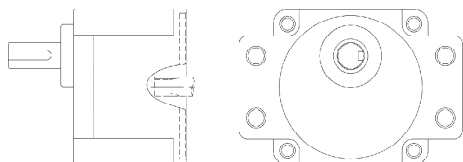
## POWER CABLE DATA

|                   |                           |
|-------------------|---------------------------|
| Model designation | ACEU-020-0   ACUS-020-0   |
| Standard          | EU CEE 7/7   US NEMA 5/15 |
| Cable length      | m   ft                    |
| Compatible models | All                       |

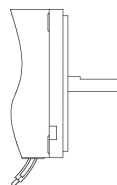
## MOUNTING BRACKET DATA

|                   |                                |                     |
|-------------------|--------------------------------|---------------------|
| Model designation | AMB-080                        | AMB-090             |
| Dimensions        | mm                             | 80X80               |
| Compatible models | AIS-025W   AIS-040W   AIS-060W | AIS-090W   AIS-120W |

## GEARBOX FLANGE MOUNTING



## OUTPUT SHAFT D-CUT



## NOTES

1. Visit [www.transmotec.com](http://www.transmotec.com) to view datasheets.

## GEARBOX FLANGE MOUNTING DATA

|                   |                                  |
|-------------------|----------------------------------|
| Model designation | Contact us for more information. |
| Compatible models | AIS-090W   AIS-120W              |

## OUTPUT SHAFT D-CUT DATA

|                   |                                  |
|-------------------|----------------------------------|
| Model designation | Contact us for more information. |
| Compatible models | All                              |