



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

AIR 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.

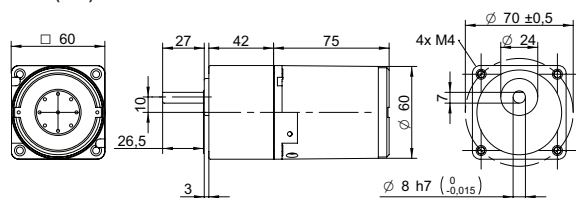
Customizations include:

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

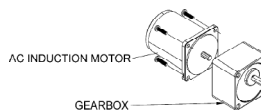
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MODEL	VOLTAGE V	NO. OF PHASES	FREQUENCY Hz	FRAME SIZE mm	POWER W	PAGE
AIR-006W	120 230	1	50 60	60	6	1
AIR-015W	120 230	1	50 60	70	15	3
AIR-025W	120 230	1	50 60	80	25	5
AIR-040W	120 230	1	50 60	90	40	7
AIR-060W	120 230	1	50 60	90	60	9
AIR-090W	120 230	1	50 60	90	90	11
AIR-120W	120 230	1	50 60	90	120	13

DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-006W - Voltage - Phase - Connection

Example: AIR-006W-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	0.12	0.14	0.19	0.23	0.29	0.35	0.39	0.49	0.58	0.70	0.70	0.88	1.1	1.3	1.4	1.8	1.9	2.4	2.9	3.0 ²	3.0 ²	3.0 ²	3.0 ²	3.0 ²	
Nominal speed	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	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.4	4.4	4.4	4.4	4.4	4.0	4.0	4.0	3.8	3.1	2.5	2.1	1.9	
Gearb. nom. torq. ³	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 load ⁴	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	

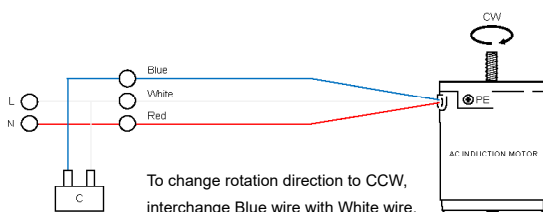
OTHER GEAR MOTOR DATA

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	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	230
No. of phases		1
Frequency	Hz	50
No. of poles		4
Nominal speed	rpm	1200
Nominal torque	mNm	48
Nominal current	A	0.15
Nominal power	W	6
Stall torque	mNm	55
Insulation class		B
Motor cable		AWG20
Motor cable length	mm	300
Capacitor included in delivery	μF	1
Insulation resistance	MΩ	100
Dielectric strength	kV	1.5
Max. winding temperature	°C	80
Weight	kg	0.8

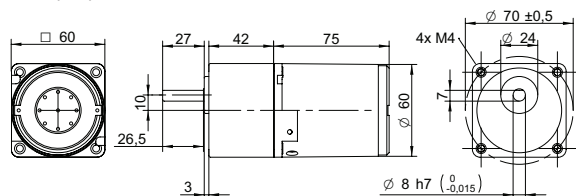
GEAR MOTOR RANGE AIR-SERIES⁵

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

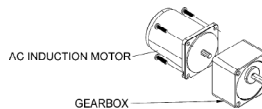
NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. Visit www.transmotec.com to view datasheets.

DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-006W - Voltage - Phase - Connection

Example: AIR-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	0.10	0.12	0.16	0.19	0.24	0.29	0.32	0.41	0.49	0.58	0.58	0.73	0.88	1.1	1.2	1.5	1.6	2.0	2.4	2.6	3.0 ²	3.0 ²	3.0 ²	3.0 ²	
Nominal speed	rpm	480	400	290	240	190	160	150	120	97	81	73	58	48	40	36	29	24	19	16	15	12	9,7	8,1	7,3	
Nominal power	W	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.4	4.4	4.4	4.4	4.4	4.0	4.0	4.0	4.0	3.8	3.0	2.5	2.3	
Gearb. nom. torq. ³	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 load ⁴	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	

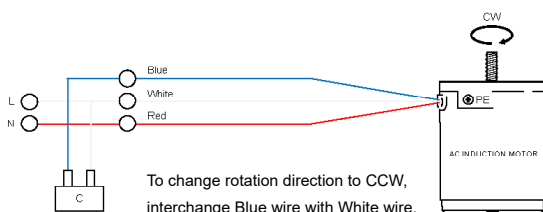
OTHER GEAR MOTOR DATA

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	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	1450
Nominal torque	mNm	40
Nominal current	A	0.2
Nominal power	W	6
Stall torque	mNm	45
Insulation class		B
Motor cable		AWG20
Motor 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	0.8

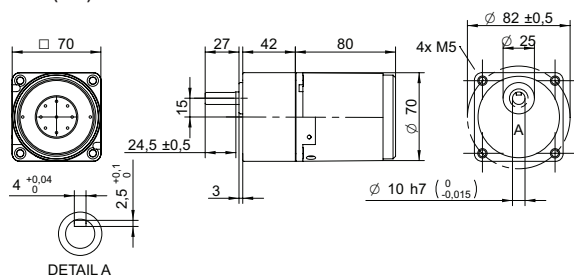
GEAR MOTOR RANGE AIR-SERIES⁵

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

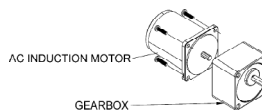
NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. Visit www.transmotec.com to view datasheets.

DRAWING (mm)



DETAIL A



PHOTO



AC induction motor and gearbox also sold separately.

MODEL NO. DESIGNATION

AIR-015W - Voltage - Phase - Connection

Example: AIR-015W-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	0.30	0.36	0.51	0.61	0.76	0.91	1.0	1.3	1.5	1.8	1.8	2.3	2.7	3.3	3.7	4.6	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²
Nominal speed	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	13	13	13	13	13	13	13	13	13	13	11	11	11	11	11	11	10	8.4	7.0	6.3	5.2	4.2	3.5	3.1	2.5	2.1	1.3	1.0	0.84	
Gearb. nom. torq.³	Nm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
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 load⁴	N	120	120	120	120	120	120	120	120	120	120	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
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	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	

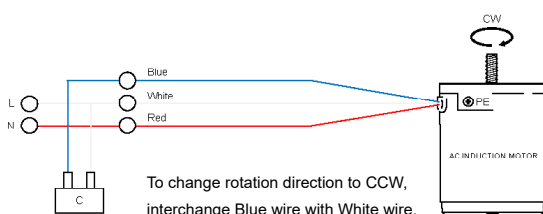
OTHER GEAR MOTOR DATA

Service life	h	10000	C
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	40	C
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	C
No. of phases		1	
Frequency	Hz	50	
No. of poles		4	
Nominal speed	rpm	1200	
Nominal torque	mNm	125	
Nominal current	A	0.23	
Nominal power	W	15	
Stall torque	mNm	110	
Insulation class		B	
Motor cable		AWG20	
Motor cable length	mm	300	
Capacitor included in delivery	μF	1.5	
Insulation resistance	MΩ	100	
Dielectric strength	kV	1.5	
Max. winding temperature	°C	80	
Weight	kg	1.2	

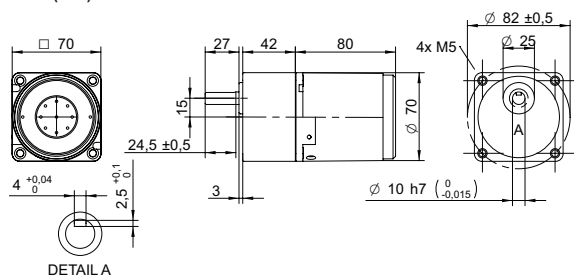
GEAR MOTOR RANGE AIR-SERIES⁵

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

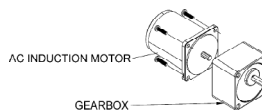
NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. Visit www.transmotec.com to view datasheets.

DRAWING (mm)



DETAIL A



PHOTO



AC induction motor and gearbox also sold separately.

MODEL NO. DESIGNATION

AIR-015W - Voltage - Phase - Connection

Example: AIR-015W-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	0.26	0.31	0.43	0.51	0.64	0.77	0.85	1.1	1.3	1.5	1.5	1.9	2.3	2.8	3.1	3.8	4.2	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²	5.0²
Nominal speed	rpm	480	400	290	240	190	160	150	120	97	81	73	58	48	40	36	29	24	19	16	15	12	9.7	8.1	7.3	5.8	4.8	2.9	2.4	1.9	
Nominal power	W	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	11	10	8.4	7.6	6.3	5.1	4.2	3.8	3.0	2.5	1.5	1.3	1.0	
Gearb. nom. torq.³	Nm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
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 load⁴	N	120	120	120	120	120	120	120	120	120	120	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
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	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	

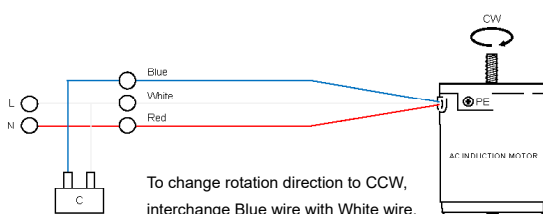
OTHER GEAR MOTOR DATA

Service life	h	10000	C
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	40	C
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	C
No. of phases		1	
Frequency	Hz	60	
No. of poles		4	
Nominal speed	rpm	1450	
Nominal torque	mNm	105	
Nominal current	A	0.42	
Nominal power	W	15	
Stall torque	mNm	85	
Insulation class		B	
Motor cable		AWG20	
Motor cable length	mm	300	
Capacitor included in delivery	μF	6	
Insulation resistance	MΩ	100	
Dielectric strength	kV	1.5	
Max. winding temperature	°C	80	
Weight	kg	1.2	

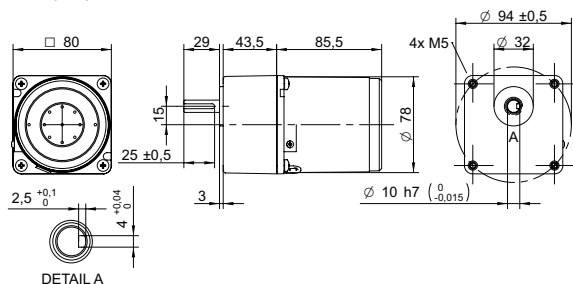
GEAR MOTOR RANGE AIR-SERIES⁵

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. Gearbox nominal torque.
4. 20 mm from shaft.
5. Visit www.transmotec.com to view datasheets.

DRAWING (mm)

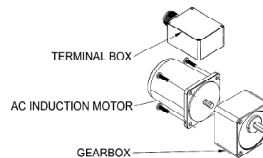


AC induction motor and gearbox also sold separately.

MODEL NO. DESIGNATION

AIR-025W	-	Voltage	-	Phase	-	Connection
Example: AIR-025W-230-SC						
				S = Single phase	C = Cable B = Terminal box	

PHOTO



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	0.49	0.58	0.81	0.97	1.2	1.5	1.6	2.0	2.4	2.9	2.9	3.7	4.4	5.3	5.8	7.3	7.9	8.0²	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 speed	rpm	420	350	250	210	170	140	130	100	83	69	63	50	42	35	31	25	21	17	14	13	10	8.3	6.9	6.3	5	4.2	2.5	2.1	1.7	
Nominal power	W	21	21	21	21	21	21	21	21	21	19	19	19	19	19	19	19	17	14	12	10	9	7.0	5.8	5.2	4.2	3.5	2.1	1.7	1.4	
Gearb. nom. torq.³	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	66	59	59	59	59	59	
Radial load⁴	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	

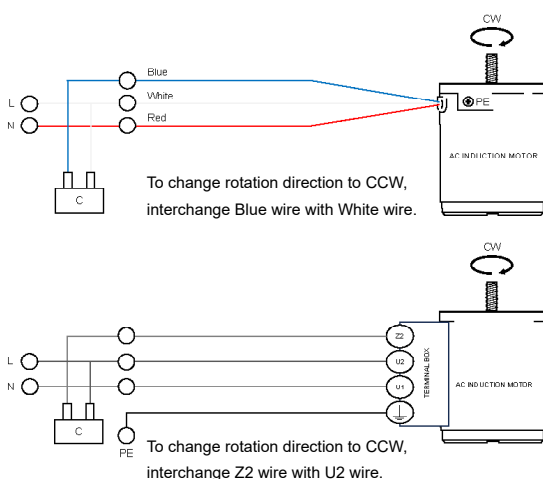
OTHER GEAR MOTOR DATA

Service life	h	10000	C
Performance tolerances		± 15	
Operating temperature	°C	-10 to 40	
IP rating⁵		IP20 IP54	
Manufacturing standard		ISO 9001	
CE label UL label		Yes No	

GEARBOX DATA

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

WIRING DIAGRAM AC INDUCTION MOTOR⁶



AC INDUCTION MOTOR DATA

Nominal voltage	V	230	C
No. of phases		1	
Frequency	Hz	50	
No. of poles		4	
Nominal speed	rpm	1250	
Nominal torque	mNm	200	
Nominal current	A	0.3	
Nominal power	W	25	
Stall torque	mNm	160	
Insulation class		B	
Motor cable		AWG20	
Motor cable length	mm	300	
Capacitor included in delivery	μF	2.2	
Insulation resistance	MΩ	100	
Dielectric strength	kV	1.5	
Max. winding temperature	°C	80	
Weight	kg	1.7	

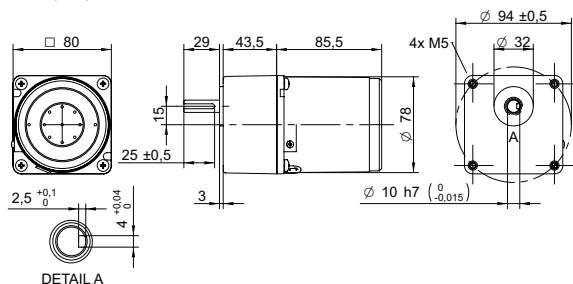
GEAR MOTOR RANGE AIR-SERIES⁷

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

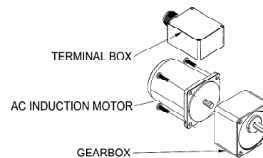
NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. IP20 without terminal box, IP54 with terminal box.
6. Cables/wires for connecting terminal box not included with AC induction motor.
7. Visit www.transmotec.com to view datasheets.

DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-025W - Voltage - Phase - Connection

Example: AIR-025W-120-SC S = Single phase C = Cable B = Terminal box

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

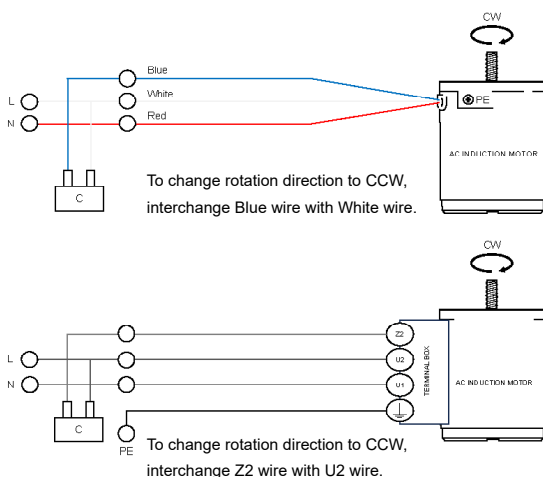
		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	C
Gear ratio																															
Nominal torque	Nm	0.40	0.48	0.67	0.80	1.0	1.2	1.3	1.7	2.0	2.4	2.4	3.0	3.6	4.3	4.8	6.0	6.5	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	8.0 ²	●
Nominal speed	rpm	520	430	310	260	210	170	160	120	100	86	78	62	52	43	39	31	26	21	17	16	13	10	8,6	7,8	6,2	5,2	3,1	2,6	2,1	
Nominal power	W	22	22	22	22	22	22	22	22	22	22	20	20	20	20	20	20	18	17	14	13	11	8.7	7.2	6.5	5.2	4.3	2.6	2.2	1.7	
Gearb. nom. torq. ³	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	81	73	73	73	73	73	73	66	66	66	66	66	66	66	66	59	59	59	59	59	
Radial load ⁴	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	C
Performance tolerances		± 15	
Operating temperature	°C	-10 to 40	
IP rating ⁵		IP20 IP54	
Manufacturing standard		ISO 9001	
CE label UL label		No No	

GEARBOX DATA

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

WIRING DIAGRAM AC INDUCTION MOTOR⁶

AC INDUCTION MOTOR DATA

Nominal voltage	V	120	C
No. of phases		1	
Frequency	Hz	60	
No. of poles		4	
Nominal speed	rpm	1550	
Nominal torque	mNm	165	
Nominal current	A	0.5	
Nominal power	W	25	
Stall torque	mNm	140	
Insulation class		B	
Motor cable		AWG20	
Motor 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	1.7	

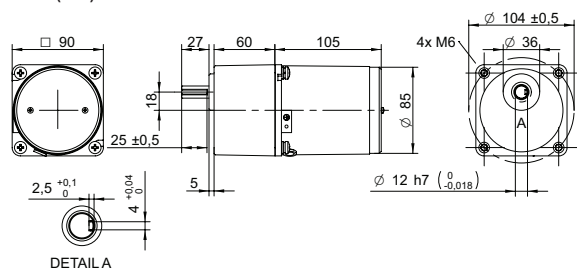
GEAR MOTOR RANGE AIR-SERIES⁷

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. Gearbox nominal torque.
4. 20 mm from shaft.
5. IP20 without terminal box, IP54 with terminal box.
6. Cables/wires for connecting terminal box not included with AC induction motor.
7. Visit www.transmotec.com to view datasheets.

DRAWING (mm)

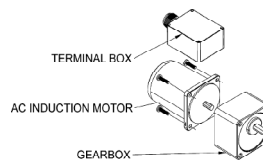


AC induction motor and gearbox also sold separately.

MODEL NO. DESIGNATION

AIR-040W	-	Voltage	-	Phase	-	Connection
Example: AIR-040W-230-SC						
				S = Single phase	C = Cable B = Terminal box	

PHOTO



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

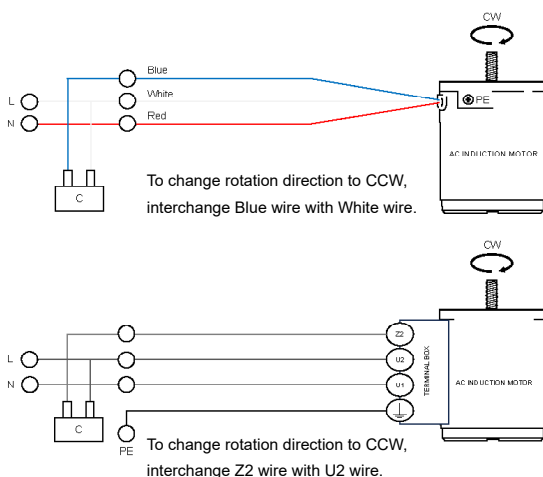
		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	C
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	●
Nominal torque	Nm	0.77	0.92	1.3	1.5	1.9	2.3	2.6	3.2	3.8	4.6	4.6	5.7	6.9	8.3	9.2	10²	10²	10²	10²	10²	10²	10²	10²	10²	10²	10²	10²	10²	10²	10²
Nominal speed	rpm	420	350	250	210	170	140	130	100	83	69	63	50	42	35	31	25	21	17	14	13	10	8.3	6.9	6.3	5.0	4.2	2.5	2.1	1.7	
Nominal power	W	33	33	33	33	33	33	33	33	33	33	30	30	30	30	30	26	22	17	15	13	11	8.7	7.3	6.5	5.2	4.4	2.6	2.2	1.7	
Gearb. nom. torq. ³	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 ⁴	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

OTHER GEAR MOTOR DATA

Service life	h	10000
Performance tolerances		± 15
Operating temperature	°C	-10 to 40
IP rating ⁵		IP20 IP54
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 MOTOR⁶

AC INDUCTION MOTOR DATA

Nominal voltage	V	230
No. of phases		1
Frequency	Hz	50
No. of poles		4
Nominal speed	rpm	1250
Nominal torque	mNm	315
Nominal current	A	0.45
Nominal power	W	40
Stall torque	mNm	270
Insulation class		B
Motor cable		AWG18
Motor cable length	mm	300
Capacitor included in delivery	μF	3
Insulation resistance	MΩ	100
Dielectric strength	kV	1.5
Max. winding temperature	°C	80
Weight	kg	1.7

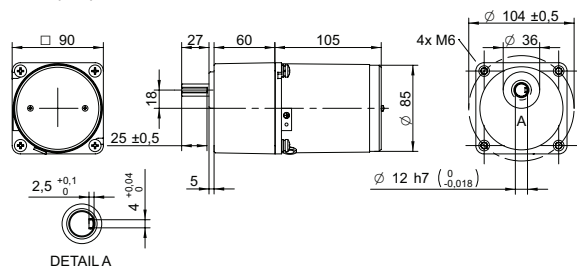
GEAR MOTOR RANGE AIR-SERIES⁷

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

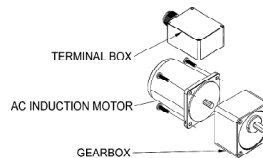
NOTES

- See page 15 of this catalog.
- Gear motor torque limited by gearbox.
- Gearbox nominal torque.
- 20 mm from shaft.
- IP20 without terminal box, IP54 with terminal box.
- Cables/wires for connecting terminal box not included with AC induction motor.
- Visit www.transmotec.com to view datasheets.

DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-040W - Voltage - Phase - Connection

Example: AIR-040W-120-SC S = Single phase C = Cable B = Terminal box

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

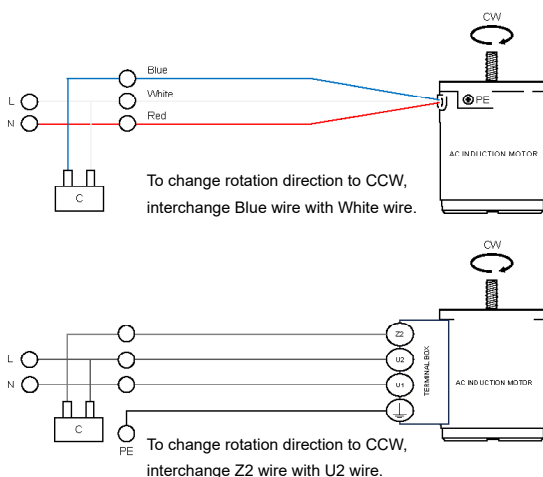
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	
Nominal torque	Nm	0.63	0.76	1.1	1.3	1.6	1.9	2.1	2.6	3.2	3.8	3.8	4.7	5.7	6.8	7.6	9.5	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	
Nominal speed	rpm	520	430	310	260	210	170	160	120	100	86	78	62	52	43	39	31	26	21	17	16	13	10	8,6	7,8	6,2	5,2	3,1	2,6	2,1	
Nominal power	W	34	34	34	34	34	34	34	34	34	34	31	31	31	31	31	31	27	22	18	16	14	11	9,0	8,1	6,5	5,4	3,2	2,7	2,2	
Gearb. nom. torq. ³	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 ⁴	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	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	

OTHER GEAR MOTOR DATA

Service life	h	10000
Performance tolerances		± 15
Operating temperature	°C	-10 to 40
IP rating ⁵		IP20 IP54
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 MOTOR⁶

AC INDUCTION MOTOR DATA

Nominal voltage	V	120
No. of phases		1
Frequency	Hz	60
No. of poles		4
Nominal speed	rpm	1550
Nominal torque	mNm	260
Nominal current	A	0.8
Nominal power	W	40
Stall torque	mNm	260
Insulation class		B
Motor cable		AWG18
Motor 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	1.7

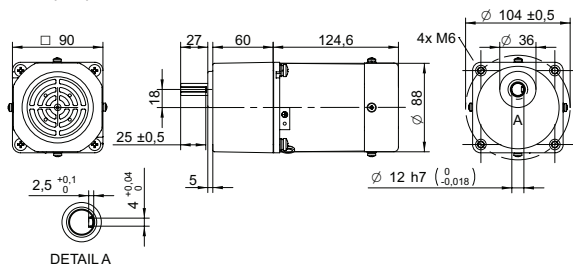
GEAR MOTOR RANGE AIR-SERIES⁷

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. Gearbox nominal torque.
4. 20 mm from shaft.
5. IP20 without terminal box, IP54 with terminal box.
6. Cables/wires for connecting terminal box not included with AC induction motor.
7. Visit www.transmotec.com to view datasheets.

DRAWING (mm)



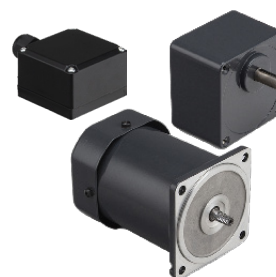
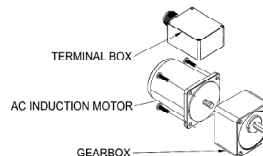
AC induction motor and gearbox also sold separately.

MODEL NO. DESIGNATION

AIR-060W - Voltage - Phase - Connection

Example: AIR-060W-120-SC S = Single phase C = Cable B = Terminal box

PHOTO

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

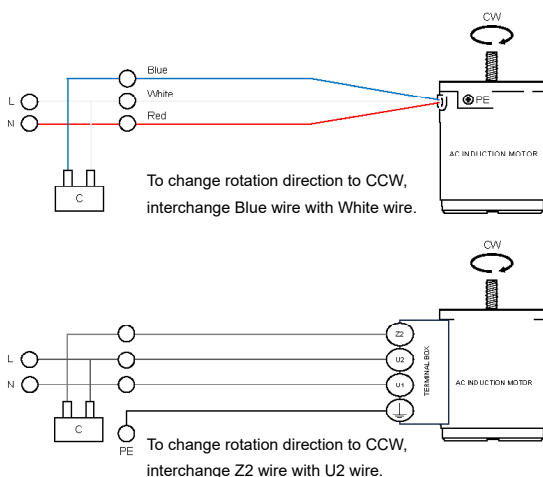
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750			
Nominal torque	Nm	0.92	1.1	1.5	1.8	2.3	2.8	3.1	3.8	4.6	5.5	5.5	6.9	8.3	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	
Nominal speed	rpm	520	430	310	260	210	170	160	120	100	86	78	62	52	43	39	31	26	21	17	16	13	10	8,6	7,8	6,2	5,2	3,1	2,6	2,1			
Nominal power	W	50	50	50	50	50	50	50	50	50	50	45	45	45	45	41	32	27	22	18	16	14	11	9,0	8,1	6,5	5,4	3,2	2,7	2,2			
Gearb. nom. torq. ³	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	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	59		
Radial load ⁴	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	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	CCW	
Weight	kg	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	

OTHER GEAR MOTOR DATA

Service life	h	10000
Performance tolerances		± 15
Operating temperature	°C	-10 to 40
IP rating ⁵		IP20 IP54
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 MOTOR⁶

AC INDUCTION MOTOR DATA

Nominal voltage	V	120
No. of phases		1
Frequency	Hz	60
No. of poles		4
Nominal speed	rpm	1550
Nominal torque	mNm	380
Nominal current	A	1.1
Nominal power	W	60
Stall torque	mNm	380
Insulation class		B
Motor cable		AWG18
Motor cable length	mm	300
Capacitor included in delivery	μF	15
Insulation resistance	MΩ	100
Dielectric strength	kV	1.5
Max. winding temperature	°C	80
Weight	kg	2.8

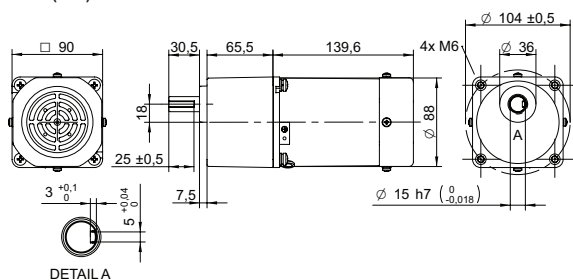
GEAR MOTOR RANGE AIR-SERIES⁷

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

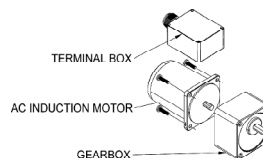
NOTES

- See page 15 of this catalog.
- Gear motor torque limited by gearbox.
- Gearbox nominal torque.
- 20 mm from shaft.
- IP20 without terminal box, IP54 with terminal box.
- Cables/wires for connecting terminal box not included with AC induction motor.
- Visit www.transmotec.com to view datasheets.

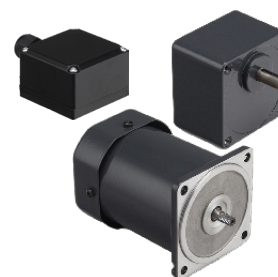
DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-090W	-	Voltage	-	Phase	-	Connection
Example: AIR-090W-230-SC				S = Single phase		C = Cable B = Terminal box

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	2.0	2.8	3.4	4.3	5.1	5.7	7.1	8.5	10	10	13	15	18	20²	20²	20²	20²	20²	20²	20²	20²	20²	20²	20²
Nominal speed	rpm	420	350	250	210	170	140	130	100	83	69	63	50	42	35	31	25	21	17	14	13	10	8,3	6,9	6,3	
Nominal power	W	74	74	74	74	74	74	74	74	74	74	67	67	67	67	65	52	44	35	29	26	22	17	15	13	
Gearb. nom. torq.³	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	
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 load⁴	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	

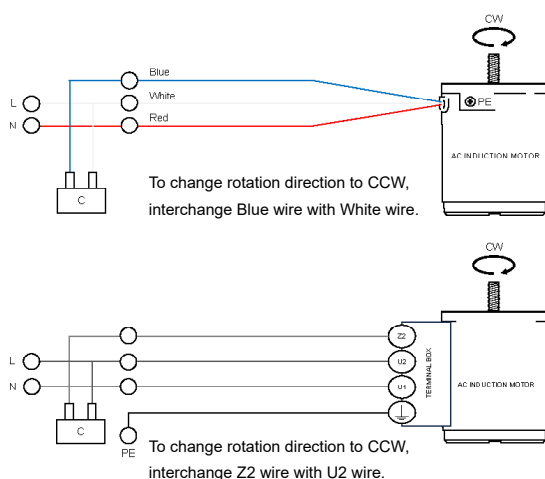
OTHER GEAR MOTOR DATA

Service life	h	10000
Performance tolerances		± 15
Operating temperature	°C	-10 to 40
IP rating⁵		IP20 IP54
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 MOTOR⁶



AC INDUCTION MOTOR DATA

Nominal voltage	V	230
No. of phases		1
Frequency	Hz	50
No. of poles		4
Nominal speed	rpm	1250
Nominal torque	mNm	700
Nominal current	A	0.81
Nominal power	W	90
Stall torque	mNm	560
Insulation class		B
Motor cable		AWG18
Motor cable length	mm	300
Capacitor included in delivery	μF	6
Insulation resistance	MΩ	100
Dielectric strength	kV	1.5
Max. winding temperature	°C	80
Weight	kg	3.3

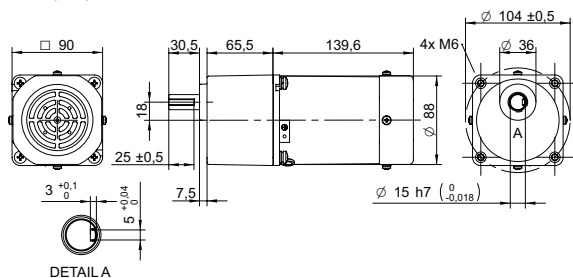
GEAR MOTOR RANGE AIR-SERIES⁷

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

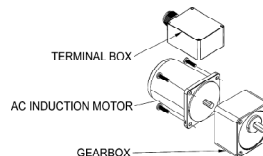
NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. IP20 without terminal box, IP54 with terminal box.
6. Cables/wires for connecting terminal box not included with AC induction motor.
7. Visit www.transmotec.com to view datasheets.

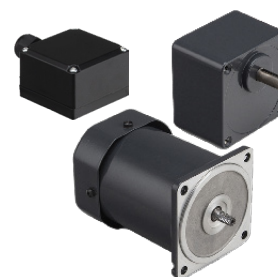
DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-090W - Voltage - Phase - Connection

Example: AIR-090W-120-SC S = Single phase C = Cable B = Terminal box

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

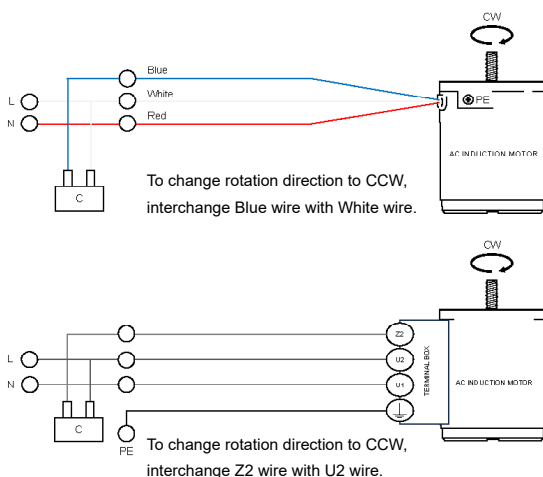
		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	C
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
Nominal torque	Nm	1.4	1.7	2.3	2.8	3.5	4.2	4.6	5.8	6.9	8.3	8.3	10	12	15	17	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	
Nominal speed	rpm	520	430	310	260	210	170	160	120	100	86	78	62	52	43	39	31	26	21	17	16	13	10	8,6	7,8	
Nominal power	W	75	75	75	75	75	75	75	75	75	75	68	68	68	68	68	65	54	43	36	32	27	22	18	16	
Gearb. nom. torq. ³	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	
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 load ⁴	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 ⁵		IP20 IP54
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 MOTOR⁶

AC INDUCTION MOTOR DATA

Nominal voltage	V	120
No. of phases		1
Frequency	Hz	60
No. of poles		4
Nominal speed	rpm	1550
Nominal torque	mNm	570
Nominal current	A	1.5
Nominal power	W	90
Stall torque	mNm	500
Insulation class		B
Motor cable		AWG18
Motor 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	3.2

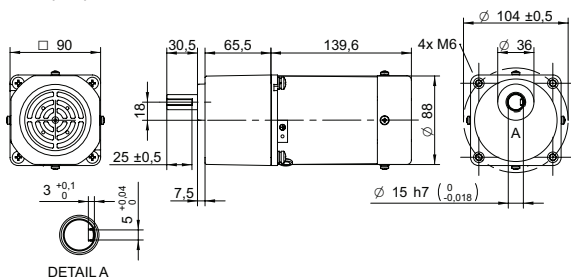
GEAR MOTOR RANGE AIR-SERIES⁷

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

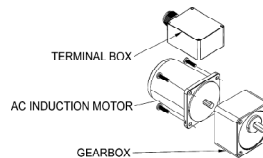
NOTES

- See page 15 of this catalog.
- Gear motor torque limited by gearbox.
- Gearbox nominal torque.
- 20 mm from shaft.
- IP20 without terminal box, IP54 with terminal box.
- Cables/wires for connecting terminal box not included with AC induction motor.
- Visit www.transmotec.com to view datasheets.

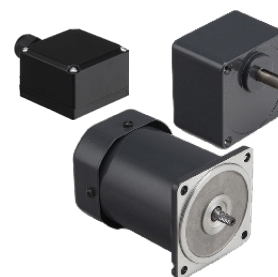
DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-120W	-	Voltage	-	Phase	-	Connection
Example: AIR-120W-230-SC						
				S = Single phase	C = Cable B = Terminal box	

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

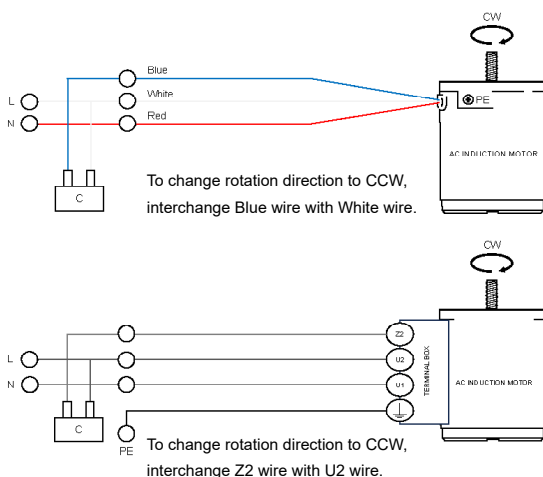
		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	●
Nominal torque	Nm	2.3	2.7	3.8	4.5	5.6	6.8	7.5	9.4	11	14	14	17	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	●
Nominal speed	rpm	420	350	250	210	170	140	130	100	83	69	63	50	42	35	31	25	21	17	14	13	10	8.3	6.9	6.3	
Nominal power	W	99	99	99	99	99	99	99	99	99	99	89	89	87	73	65	52	44	35	29	26	22	17	15	13	
Gearb. nom. torq. ³	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 load ⁴	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 ⁵		IP20 IP54
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 MOTOR⁶

AC INDUCTION MOTOR DATA

Nominal voltage	V	230
No. of phases		1
Frequency	Hz	50
No. of poles		4
Nominal speed	rpm	1250
Nominal torque	mNm	930
Nominal current	A	1.2
Nominal power	W	120
Stall torque	mNm	720
Insulation class		B
Motor cable		AWG18
Motor 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	3.3

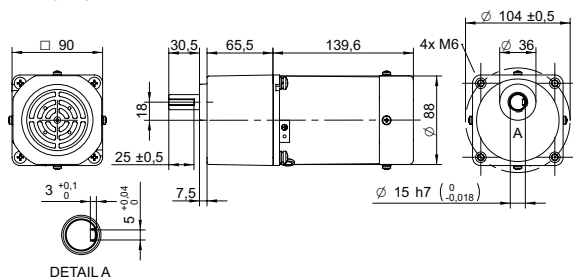
GEAR MOTOR RANGE AIR-SERIES⁷

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

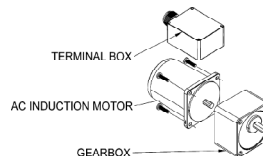
NOTES

1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. IP20 without terminal box, IP54 with terminal box.
6. Cables/wires for connecting terminal box not included with AC induction motor.
7. Visit www.transmotec.com to view datasheets.

DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AIR-120W	-	Voltage	-	Phase	-	Connection
Example: AIR-120W-120-SC						
				S = Single phase	C = Cable B = Terminal box	

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	
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 speed	rpm	520	430	310	260	210	170	160	120	100	86	78	62	52	43	39	31	26	21	17	16	13	10	8,6	7,8	
Nominal power	W	99	99	99	99	99	99	99	99	99	99	89	89	89	90	81	65	54	43	36	32	27	22	18	16	
Gearb. nom. torq.³	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 load⁴	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	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	

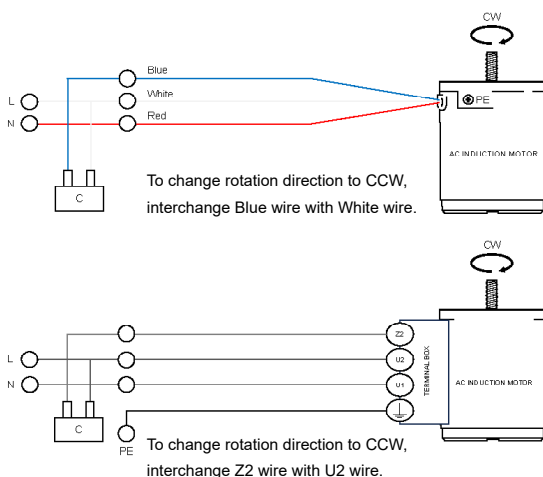
OTHER GEAR MOTOR DATA

Service life	h	10000
Performance tolerances		± 15
Operating temperature	°C	-10 to 40
IP rating⁵		IP20 IP54
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 MOTOR⁶



AC INDUCTION MOTOR DATA

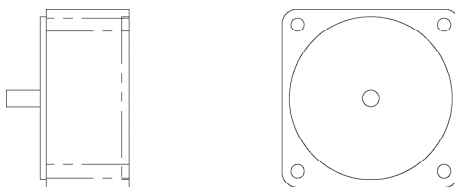
Nominal voltage	V	120
No. of phases		1
Frequency	Hz	60
No. of poles		4
Nominal speed	rpm	1550
Nominal torque	mNm	750
Nominal current	A	1.9
Nominal power	W	120
Stall torque	mNm	720
Insulation class		B
Motor cable		AWG18
Motor cable length	mm	300
Capacitor included in delivery	μF	30
Insulation resistance	MΩ	100
Dielectric strength	kV	1.5
Max. winding temperature	°C	80
Weight	kg	3.3

GEAR MOTOR RANGE AIR-SERIES⁷

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

NOTES

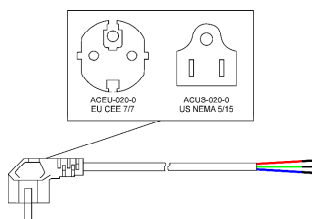
1. See page 15 of this catalog.
2. Gear motor torque limited by gearbox.
3. Gearbox nominal torque.
4. 20 mm from shaft.
5. IP20 without terminal box, IP54 with terminal box.
6. Cables/wires for connecting terminal box not included with AC induction motor.
7. Visit www.transmotec.com to view datasheets.

DECIMAL GEARBOX¹

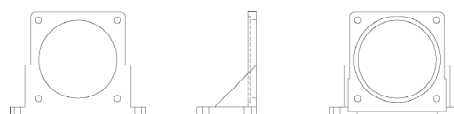
DECIMAL GEARBOX DATA

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	20
Description		Connected between AC motor and existing gearbox to decrease the speed further than the gear ratio listed in the table.					
Compatible models		AIR-006W	AIR-015W	AIR-025W	AIR-040W AIR-060W	AIR-090W AIR-120W	

POWER CABLE



MOUNTING BRACKET



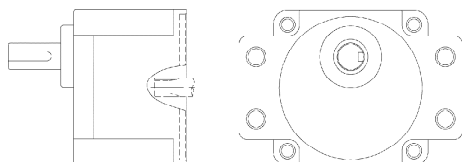
POWER CABLE DATA

Model designation		ACEU-020-0 ACUS-020-0	
Standard		EU CEE 7/7 US NEMA 5/15	
Cable length	m ft	2 8	
Compatible models		All	

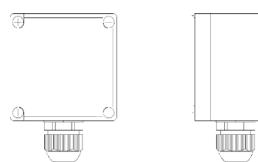
MOUNTING BRACKET DATA

Model designation		AMB-080		AMB-090	
Dimensions	mm	80X80	90x90		
Compatible models		AIR-025W	AIR-040W	AIR-060W	AIR-090W AIR-120W

GEARBOX FLANGE MOUNTING



TERMINAL BOX



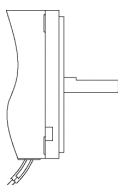
GEARBOX FLANGE MOUNTING DATA

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

TERMINAL BOX DATA

Model designation	See model no. designation to order correct part number.
Compatible models	AIR-025W AIR-040W AIR-060W AIR-090W AIR-120W

OUTPUT SHAFT D-CUT



NOTES

1. Visit www.transmotec.com to view datasheets.

OUTPUT SHAFT D-CUT DATA

Model designation	Contact us for more information.
Compatible models	All