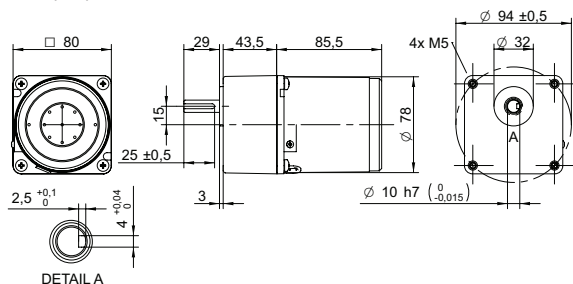
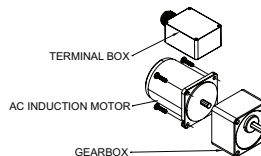


DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AI-025W	-	Voltage	-	Phase	-	Connection
Example: AI-025W-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

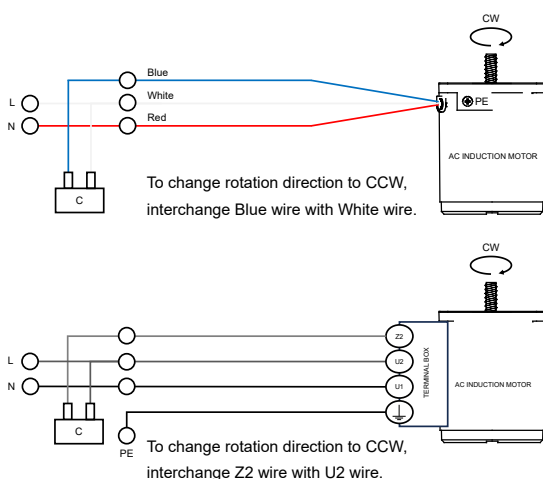
		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	C
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	●
Nominal torque	Nm	0.49	0.58	0.81	0.97	1.2	1.5	1.6	2.0	2.4	2.9	2.9	3.7	4.4	5.3	5.8	7.3	7.9	8.0²	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	8.7	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	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	2.4	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	

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		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	0.23	
Nominal power	W	25	
Stall torque	mNm	120	
Insulation class		B	
Motor cable		AWG20	
Motor 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	1.6	

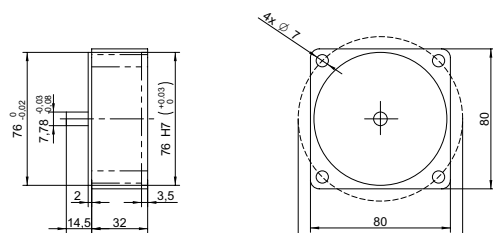
GEAR MOTOR RANGE AI-SERIES⁷

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

NOTES

- See page 2 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.

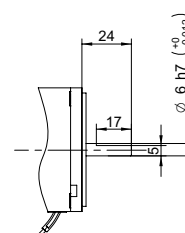
DECIMAL GEARBOX¹



DECIMAL GEARBOX DATA

Model designation		S80A-Y010
Gear ratio		10:1
Nominal torque	Nm	8
Description		Connected between AC motor and existing gearbox to decrease the speed further than the gear ratio listed in the table.

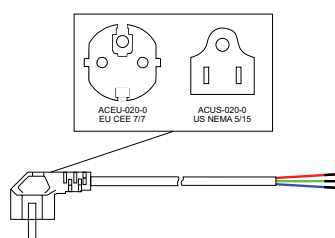
OUTPUT SHAFT D-CUT



DECIMAL GEARBOX DATA

Model designation	Contact us for more information.
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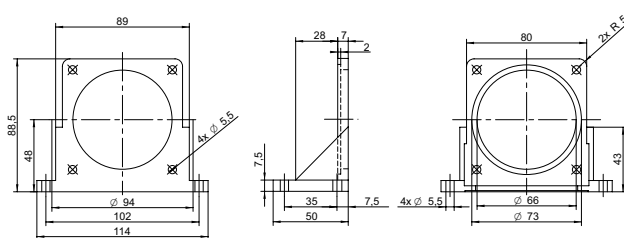
POWER CABLE



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	

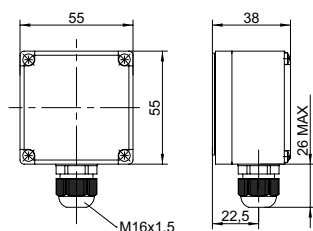
MOUNTING BRACKET



MOUNTING BRACKET DATA

Model designation	AMB-080		
Dimensions	mm	80x80	

TERMINAL BOX



TERMINAL BOX DATA

Model designation	See model no. designation to order correct part number.
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NOTES

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