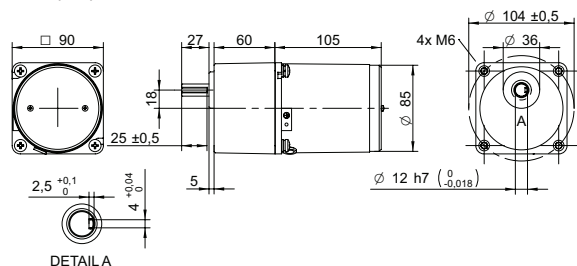


DRAWING (mm)

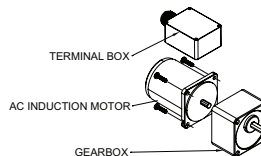


AC induction motor and gearbox also sold separately.

MODEL NO. DESIGNATION

AI-040W	-	Voltage	-	Phase	-	Connection
Example: AI-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

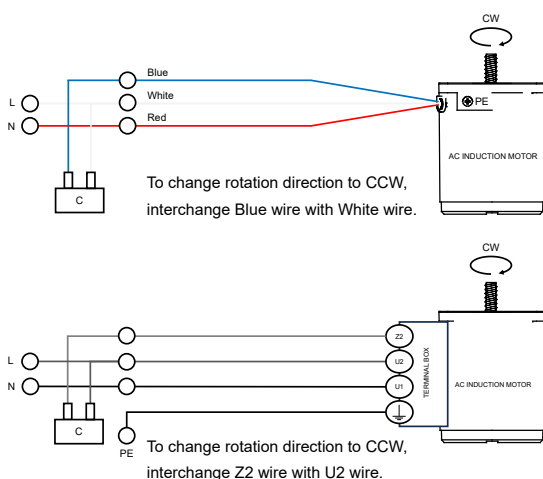
Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	500	600	750	
Nominal torque	Nm	0.77	0.92	1.3	1.5	1.9	2.3	2.6	3.2	3.8	4.6	4.6	5.7	6.9	8.3	9.2	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	10 ²	
Nominal speed	rpm	420	350	250	210	170	140	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	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	3.8	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		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	0.4
Nominal power	W	40
Stall torque	mNm	220
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	2.4

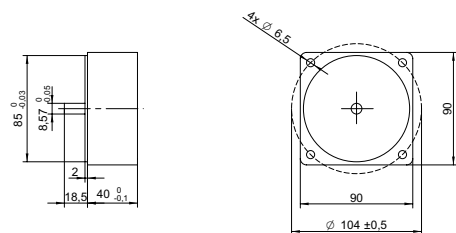
GEAR MOTOR RANGE AI-SERIES⁷

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.

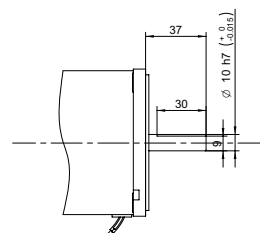
DECIMAL GEARBOX¹



DECIMAL GEARBOX DATA

Model designation	S90A-Y010
Gear ratio	10:1
Nominal torque Nm	10
Description	Connected between AC motor and existing gearbox to decrease the speed further than the gear ratio listed in the table.

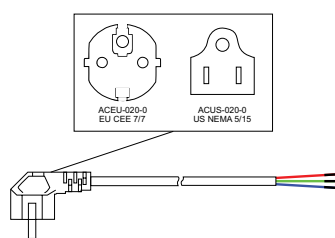
OUTPUT SHAFT D-CUT



DECIMAL GEARBOX DATA

Model designation	Contact us for more information.
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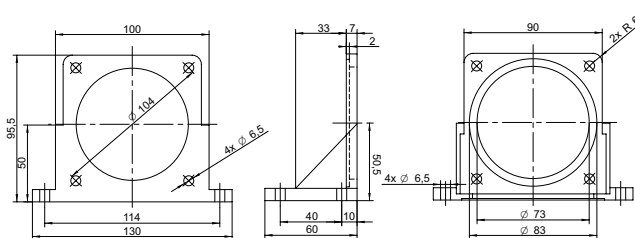
POWER CABLE



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

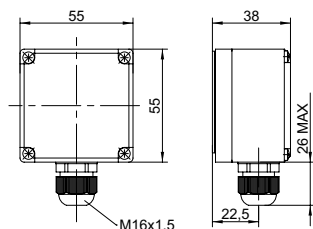
MOUNTING BRACKET



MOUNTING BRACKET DATA

Model designation	AMB-090
Dimensions mm	90x90

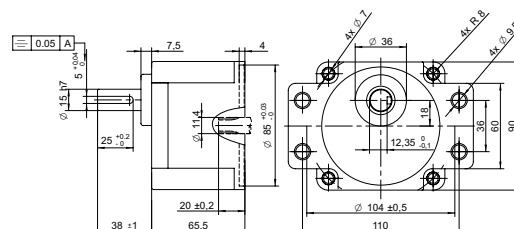
TERMINAL BOX



TERMINAL BOX DATA

Model designation	See model no. designation to order correct part number.
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GEARBOX FLANGE MOUNTING



GEARBOX FLANGE MOUNTING DATA

Model designation	Contact us for more information.
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NOTES

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