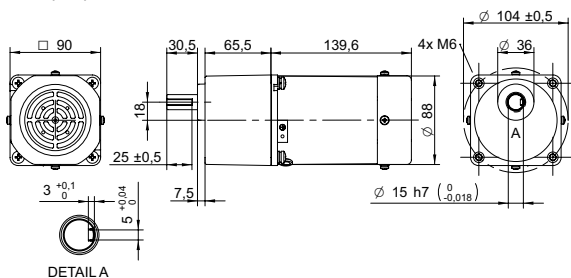
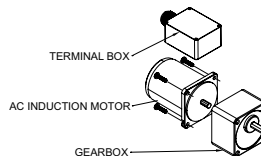


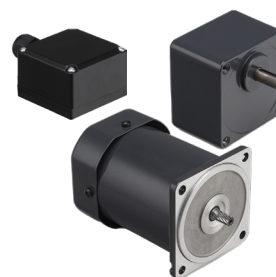
DRAWING (mm)



AC induction motor and gearbox also sold separately.



PHOTO



MODEL NO. DESIGNATION

AI-120W	-	Voltage	-	Phase	-	Connection
Example: AI-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	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	●
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	9	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	

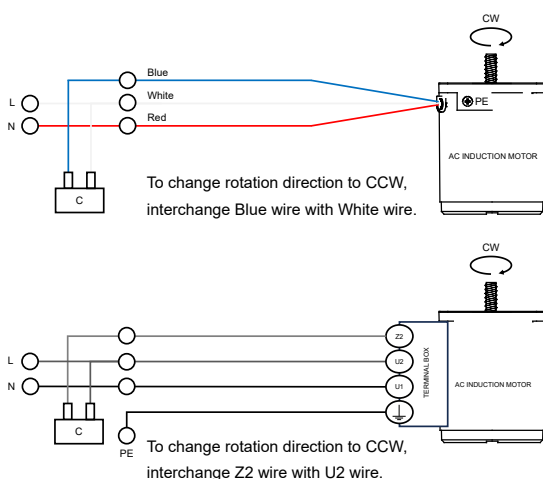
OTHER GEAR MOTOR DATA

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	1600
Nominal torque	mNm	750
Nominal current	A	1.8
Nominal power	W	120
Stall torque	mNm	600
Insulation class		B
Motor cable		AWG18
Motor cable length	mm	300
Capacitor included in delivery	μF	25
Insulation resistance	MΩ	100
Dielectric strength	kV	1.5
Max. winding temperature	°C	80
Weight	kg	3.4

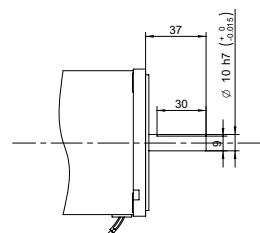
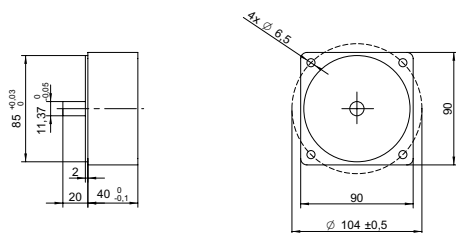
GEAR MOTOR RANGE AI-SERIES⁷

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

NOTES

- See page 2 of this datasheet.
- 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.

OUTPUT SHAFT D-CUT



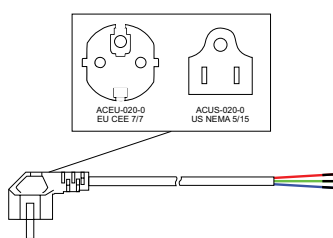
DECIMAL GEARBOX DATA

Model designation	S90B-Y010
Gear ratio	10:1
Nominal torque	Nm 20
Description	Connected between AC motor and existing gearbox to decrease the speed further than the gear ratio listed in the table.

DECIMAL GEARBOX DATA

Model designation	Contact us for more information.
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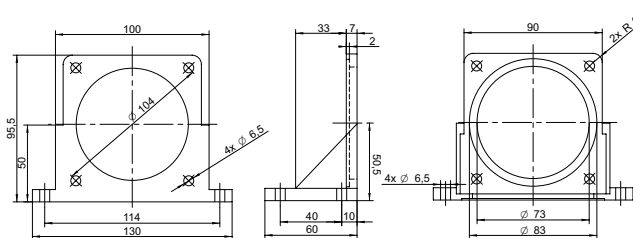
POWER CABLE



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

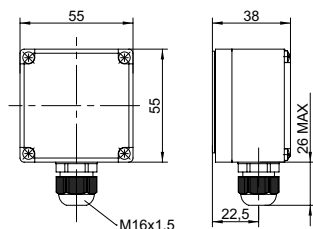
MOUNTING BRACKET



MOUNTING BRACKET DATA

Model designation		AMB-090
Dimensions	mm	90x90

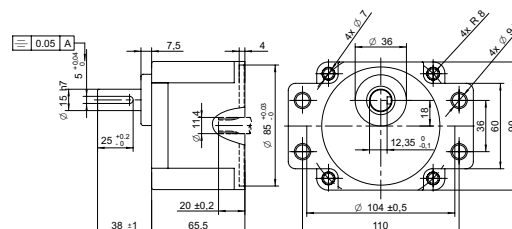
TERMINAL BOX



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.