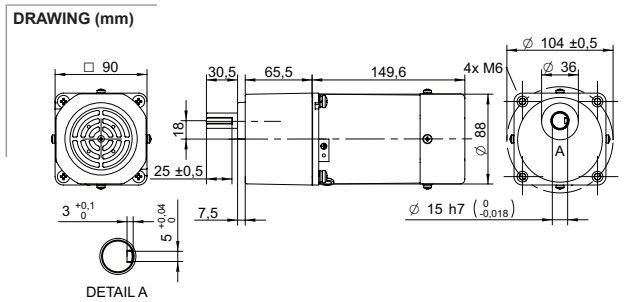
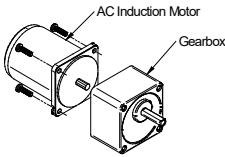




AC induction motor and gearbox also sold separately.



PHOTO

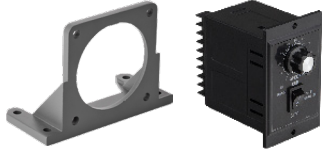


MODEL NO. DESIGNATION

AIS-090W - Voltage - Phase - Connection

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

ACCESSORIES¹



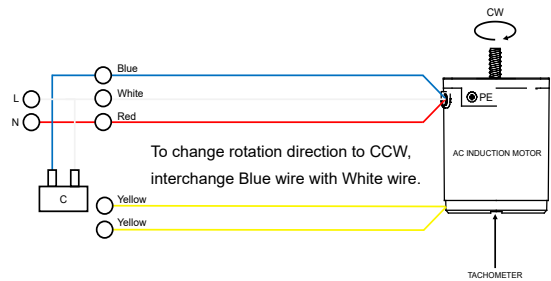
C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

GEAR MOTOR DATA																										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	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	20 ²	●
Nominal speed ³	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 load ⁵	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	CW	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		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	150
Bearing type		Ball bearing
Shaft material		40 Cr steel
Housing material		Aluminum
Material gear stage		40 Cr steel

WIRING DIAGRAM AC INDUCTION MOTOR



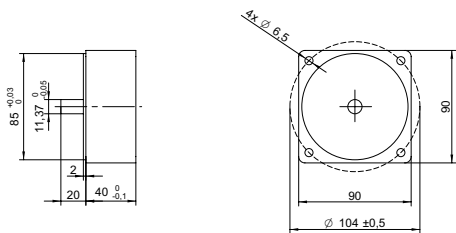
AC INDUCTION MOTOR DATA		C
Nominal voltage	V	230
No. of phases		1
Frequency	Hz	50
No. of poles		4
Nominal speed	rpm	90 to 1200
Nominal torque	mNm	710
Nominal current	A	0.95
Nominal power	W	90
Stall torque	mNm	530
Insulation class		B
Motor cable		AWG18
Signal cable		AWG22
Motor and signal cable length	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

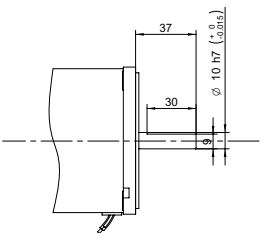
NOTES

1. See page 2 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 to view datasheets.

DECIMAL GEARBOX¹



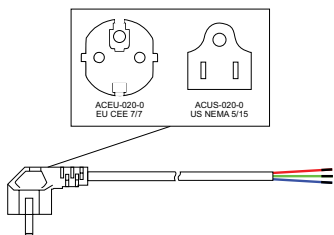
OUTPUT SHAFT D-CUT



DECIMAL GEARBOX DATA	
Model designation	S90B-Y010
Gear ratio	10:1
Nominal torque	Nm20
Description	Connected between AC motor and existing gearbox to decrease the speed further than the gear ratio listed in the table.

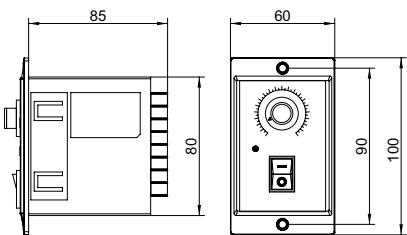
DECIMAL GEARBOX DATA	
Model designation	Contact us for more information.

POWER CABLE



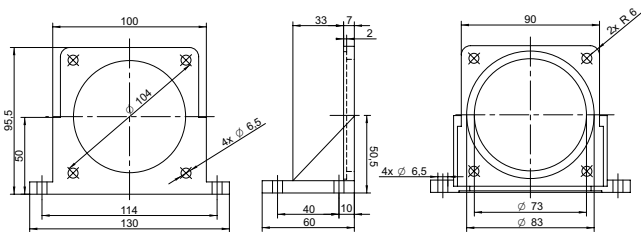
POWER CABLE DATA	
Model designation	ACEU-020-0 ACUS-020-0
Standard	EU CEE 7/7 US NEMA 5/15
Cable length	m ft2 8

SPEED CONTROLLER



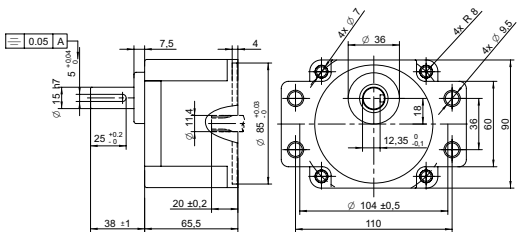
SPEED CONTROLLER DATA	
Model designation	DA-110-090 DA-230-090
Voltage	110 230
Nominal power	W90

MOUNTING BRACKET



MOUNTING BRACKET DATA	
Model designation	AMB-090
Dimensions	mm90x90

GEARBOX FLANGE MOUNTING



GEARBOX FLANGE MOUNTING DATA	
Model designation	Contact us for more information.

NOTES

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