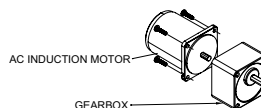
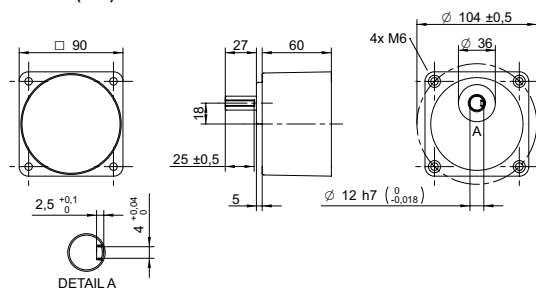


DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

S90A

-

GEAR RATIO

Example: S90A-003

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.

GEARBOX 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	250	300	500	600	750
Gearb. nom. torq. ⁴	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 ⁵	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	CCW	CCW	CCW	CCW	CCW
Weight	kg	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

OTHER GEARBOX DATA

C

Shaft axial load	N	100	
Bearing type		Ball bearing	
Shaft material		40 Cr steel	
Housing material		Aluminum	
Material gear stage		40 Cr steel	
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	

SPUR GEARBOX RANGE S SERIES⁴

Dimension	mm	See separate datasheet.
Gear ratio	W	See separate datasheet.
Compatible models	mm	See separate datasheet.

NOTES

1. See page 2 of this datasheet.
2. Gearbox nominal torque.
3. 20 mm from shaft.
4. Visit www.transmotec.com to view datasheets.

COMPATIBLE MOTORS⁴

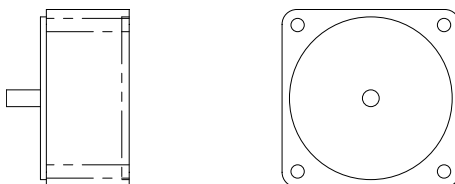
C

Model	AI-040W-230-SC	AI-040W-400-TC	AI-040W-120-SC/B	AI-040W-208-TC	AIR-040W-230-SC	AIR-040W-120-SC	AIS-040W-230-SC	AIS-040W-120-SC
No. of phases	1	3	1	3	1	3	1	3
Frequency	Hz	50	50	60	60	50	50	60
Nominal speed	rpm	1300	1300	1600	1600	1300	90 to 1200	90 to 1200
Nominal torque	mNm	320	320	260	250	320	300	260
Nominal current	A	0.4	0.17	0.6	0.25	0.45	0.4	0.6
Nominal power	W	40	40	40	40	40	40	40
Nom. speed at 50:1	rpm	25	25	31	31	25	24	24
Nom. torque at 50:1	Nm	10	10	9.5	9.1	10	10	9.5

COMPATIBLE MOTORS⁴

C

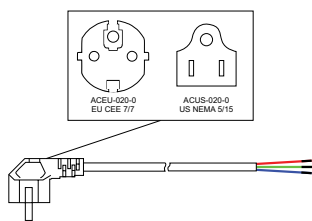
Model	AI-060W-230-SC	AI-060W-400-TC	AI-060W-120-SC/B	AI-060W-208-TC	AIR-060W-230-SC	AIR-060W-120-SC	AIS-060W-230-SC	AIS-060W-120-SC
No. of phases	1	3	1	3	1	3	1	3
Frequency	Hz	50	50	60	60	50	50	60
Nominal speed	rpm	1300	1300	1600	1600	1300	90 to 1200	90 to 1200
Nominal torque	mNm	470	470	380	380	470	490	490
Nominal current	A	0.55	0.26	0.85	0.4	0.6	0.55	0.85
Nominal power	W	60	60	60	60	60	60	60
Nom. speed at 50:1	rpm	25	25	31	31	25	24	24
Nom. torque at 50:1	Nm	10	10	10	10	10	10	10

DECIMAL GEARBOX¹

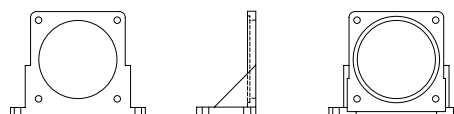
DECIMAL GEARBOX DATA

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



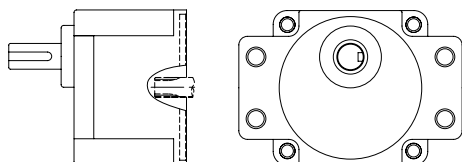
POWER CABLE DATA

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

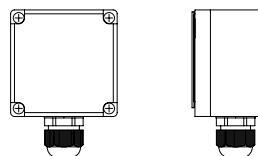
MOUNTING BRACKET DATA

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



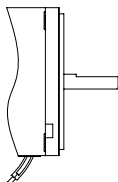
GEARBOX FLANGE MOUNTING DATA

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