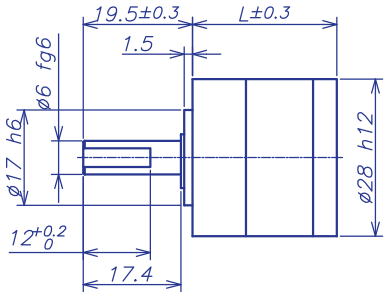
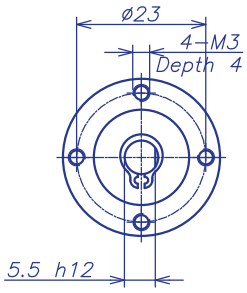
ASSUN
DRIVING THE FUTURE

AM-28GP Series





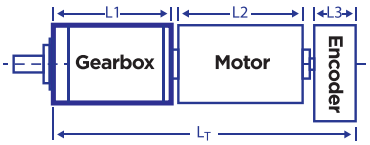
GEARBOX CHARACTER

Gear type	Straight teeth	Radial Play (10mm from flange)	max 0.1mm			
Output shaft	Stainless steel hardened	Permissible force press fits	max. 150 N			
Main gear	Alloy steel hardened	Permisssible axial load (dynamic)	max. 100N			
Ring gear	Stainless steel hardened	Recommended inut speed	8000RPM			
Adapter plate	Stainless steel	Operating temperature range	-40ºC ~ +100ºC			
Bearing AT output	Ball bearing	Operating humidity range	10-90%RH			
Axial play	0-0.3	Number of stages	1	2	3	4
Directions	CW/CCW	Permissible load (13mm from flange)	65N	100N	120N	120N

GEARBOX DATA

Number of stage	1			2		3			4		
Reduction ratio X:1	3.4	4.2	5.8	11 14 17 19 24	33	38 47 59 65	72 81 100 112 138	190	130 160 198 221 244 273	301 642 337 792 377 416 465 574	1093
Reduction ratio absolute	27/8	25/6	23/4	729/64 225/16 625/36 621/32 575/24	529/16	19683/512 6075/128 1875/32 16767/256	15625/216 5175/64 14375/144 14283/128 13225/96	12167/64	531441/4096 164025/1024 50625/256 452709/2048 15625/64 139725/512	390625/1296 43125/128 385641/1024 359375/864 119025/256 330625/576 328509/512 304175/384	279841/256
Motor shaft max. diametre (mm)	4		3	4	3	4		3	4		3
Gearbox lenght "L" (mm)	26.1			33.3		40.5			47.7		
Max. continuous torque (N.m)	0.6			0.8		2.0			2.4		
Max. intermittent torque (N.m)	0.9			1.2		3.0			3.6		
Average backlash no load	0.8°			1.0°		1.0°			1.0°		
Gearbox efficiency	90%			81%		73%			65%		
Max. mass inertia (g.cm²)	0.89			0.94		0.95			0.95		
Gearbox weight approx (g)	140			170		200			230		
gearbox model	AM-28GPA-X			AM-28GPB-X		AM-28GPC-X			AM-28GPD-X		

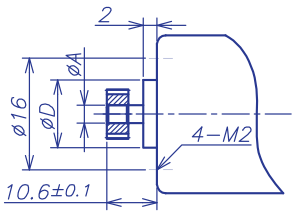
AM-28GP Example of combination



INPUT GEARBOX DATA

Modulus	0.4		
Press angle	20°		
Teeth number	12	18	24
Max gear hole "A"	3	4	4
Max motor shaft	3	4	4
Motor dimension "D"	6	8.5	10.5

MOTOR DIMENSION



Recommend Motor:

Coreless Motor (w/E)	Brushless Motor (w/E)
AM-CL2532MAN	AM-BL2453AN
AM-CL2545MAN	AM-BL2845AN
AM-CL2831MAN	
AM-CL2845MAN	

Recommend Encoder:

Suitable for Coreless Motor

Encoder S: AM-EN1611S***

Suitable for Brushless Motor

Encoder S: AM-EN1611S***

Encoder T: AM-EN2412T***

GEARBOX MOTOR LENGTH "LT"

Gear motor length L_T	67.8	89	105.5
Gear box length L_1	26.1	33.3	40.5
Motor length L_2	31	45	53
Encoder length L_3	10.7	10.7	12

Download datasheet: https://assunmotor.com/documents-download

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