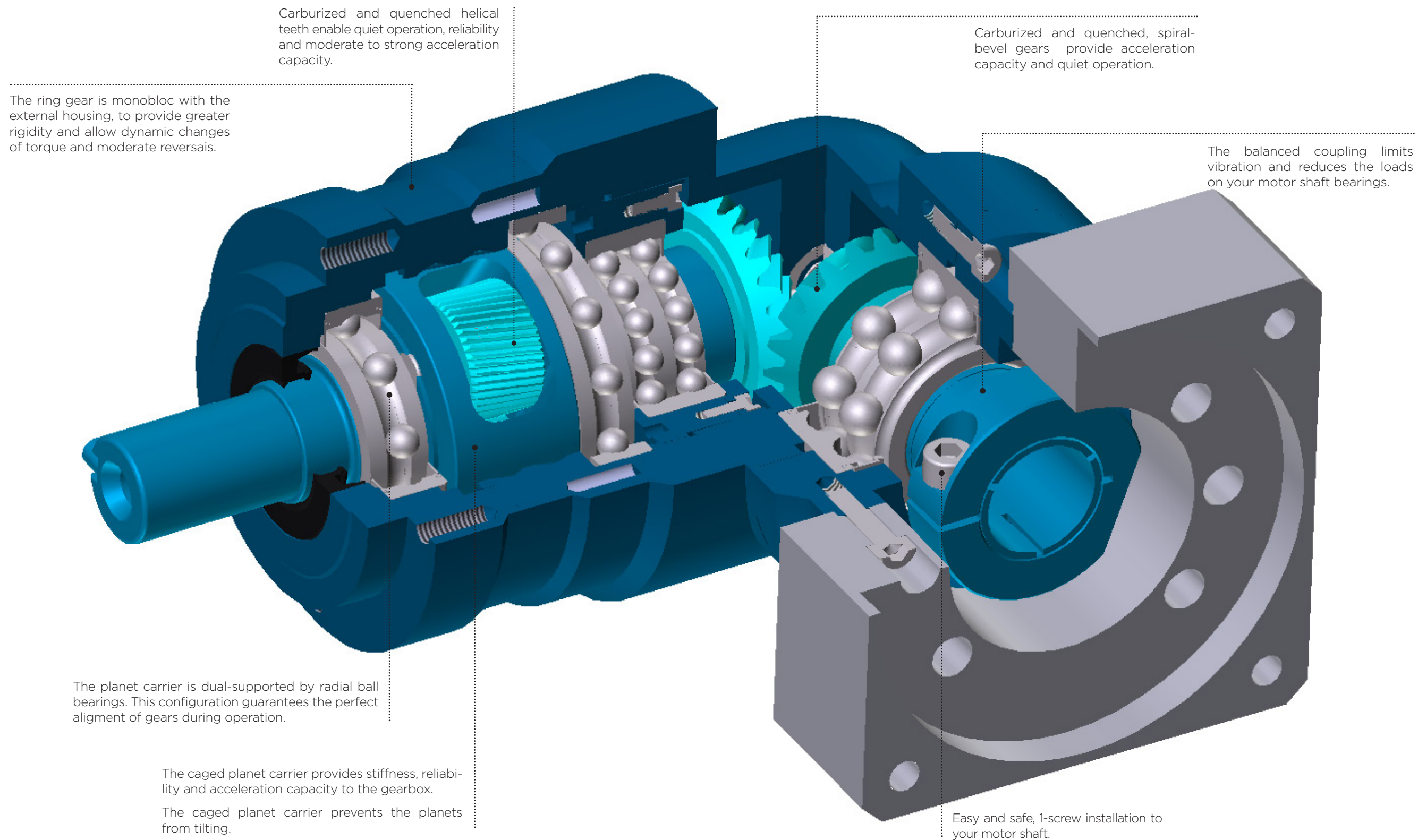


LIVELY-CI-RA_ Internal construction

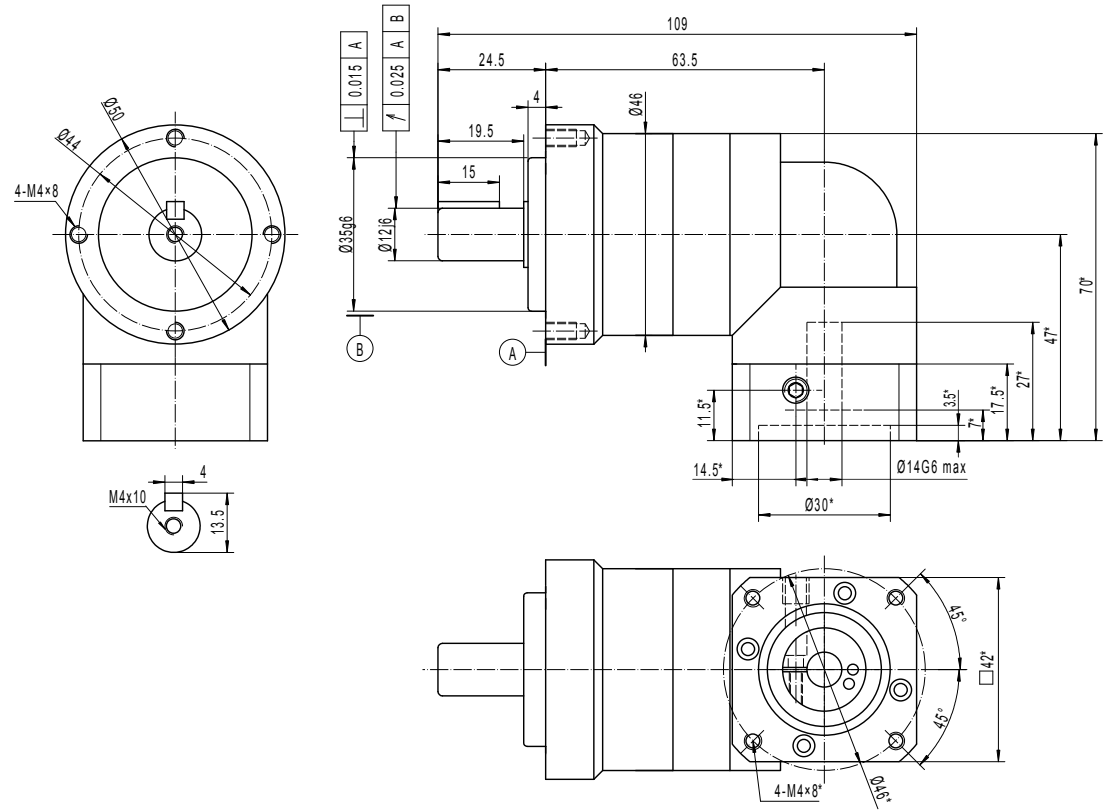


	Ratio**	LIVELY-CI-RA								
		040-P*	060-P*	090-R*	090-P*	120-R*	120-P*	155-R*	155-P*	205-R*
Nominal torque ¹ T _{2N} (Nm)	3	5	18	70		200		384		840
	4	8	37	129		214		407		1180
	5	11	29	100		167		438		925
	6	-	27	81		179		440		927
	7	8	24	71		178		465		983
	8	-	18	55		164		408		945
	9	-	16	47		-		353		818
	10	5	14	42		110		308		727
	12	5	18	65	70	200	200	283	384	549
	15	5	18	68	70	183	200	295	384	788
	16	8	37	86	129	214	214	377	407	732
	20	8	37	90	129	214	214	393	407	1051
	21	5	18	51	70	137	200	269	384	715
	25	11	29	100	100	167	167	438	438	925
	28	8	37	68	129	183	214	359	407	953
	30	-	27	81	81	179	179	440	440	927
	35	11	29	85	100	167	167	438	438	925
	40	8	37	40	113	113	214	218	407	571
	42	-	27	81	81	179	179	440	440	927
	49	8	24	71	71	178	178	465	465	983
	50	11	29	49	100	141	167	273	438	714
	60	-	27	59	81	170	179	327	440	857
	70	8	24	69	71	178	178	382	465	983
	80	-	18	55	55	164	164	408	408	945
	90	-	16	47	47	-	-	353	353	818
	100	5	14	42	42	110	110	308	308	727
Peak torque ² T _{max} (Nm)	3	15	55	169		378		628		1,338
	4	14	49	160		415		810		1,786
	5	14	40	112		300		870		1,843
	6	-	38	114		327		815		1,770
	7	14	38	115		279		804		1,760
	8	-	37	111		322		765		1,670
	9	-	36	104		-		728		1,589
	10	13	36	107		260		715		1,580
	12	15	55	92	169	242	378	502	628	1,096
	15	15	55	86	169	206	378	477	628	1,328
	16	14	49	122	160	322	415	669	810	1,462
	20	14	49	115	160	275	415	636	810	1,770
	21	15	55	85	169	212	378	457	628	1,230
	25	14	40	112	112	300	300	795	870	1,843
	28	14	49	113	160	282	415	609	810	1,640
	30	-	38	114	114	327	327	815	815	1,770
	35	14	40	112	112	300	300	762	870	1,843
	40	14	49	109	160	259	415	560	810	1,471
	42	-	38	114	114	327	327	815	815	1,770
	49	14	38	115	115	279	279	804	804	1,760
	50	14	40	112	112	300	300	700	870	1,839
	60	-	38	114	114	327	327	815	815	1,770
	70	14	38	115	115	279	279	804	804	1,760
	80	-	37	111	111	322	322	765	765	1,670
	90	-	36	104	104	-	-	728	728	1,589
	100	13	36	107	107	260	260	715	715	1,580
Emergency stop torque (Nm) ³		1,5 x T _{max}								
Max angular backlash (minutes)	1 stage	Standard : ≤8 ; Option : ≤6			Standard : ≤8 ; Option : ≤4					
	2 stages				Standard : ≤8 ; Option : ≤6					
Nominal input speed (rpm) ⁴		4 000	4 000	3,100		2,800		2,600		2,300
Max input speed (rpm) ⁵		8 000	7 500	6,000		5,500		5,000		4,500
Max radial load (N) ⁶		700	1100	2,200		3,600		9,000		14,500
Max axial load (N) ⁶		610	900	1,950		3,000		8,300		13,500
Efficiency (%) ⁷	1 stage	≥94								
	2 stages	≥92								
Torsional stiffness (Nm/min)		3	7	14		33		63		180
Life (h) ⁸		20,000								
Min / max ambient temperature ⁹		-15 / +45								
Max temperature of the body (°C)		90								
Protection class		IP 65								
Noise level (dB) ¹⁰		≤68	≤70	≤70		≤74		≤78		≤82
Lubrication		Lifetime lubrication (grease)								
Coating color		Capri blue (RAL 5019)								
Input flange		Anodized aluminum								

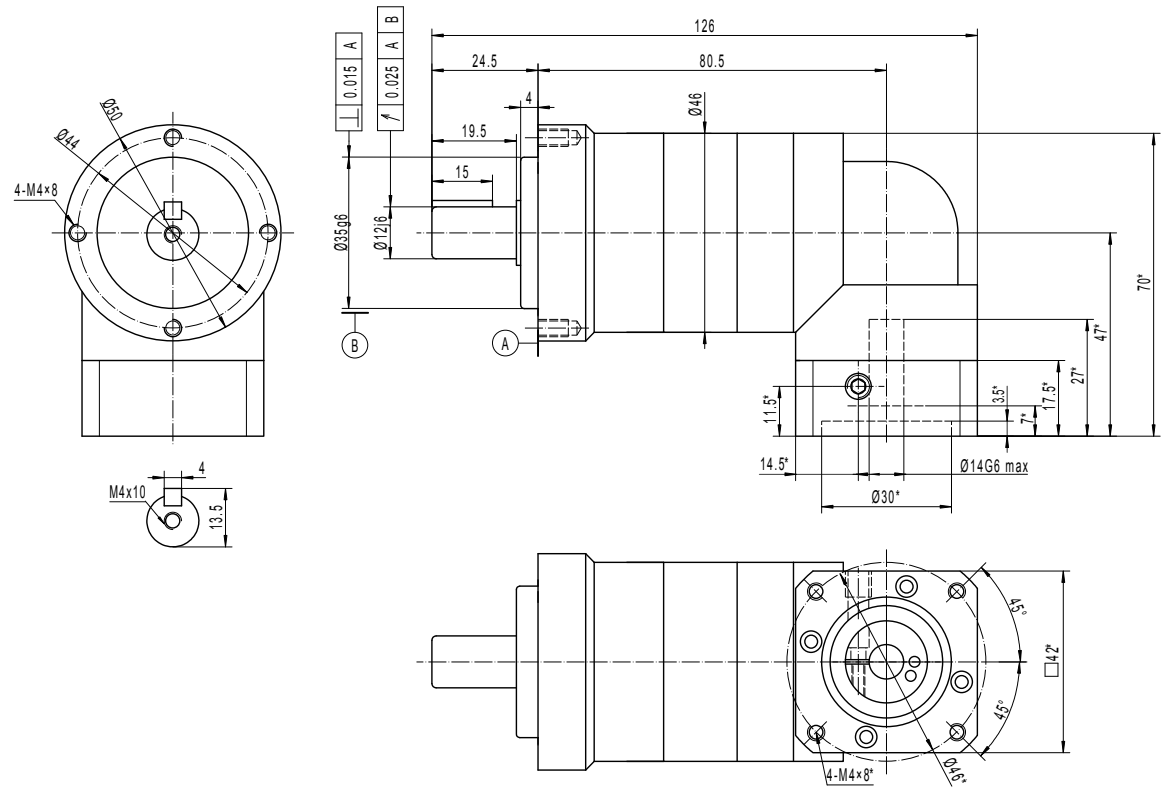
* 2 stage-gearboxes, can be equipped with a light, space-saving, low inertia input stage (R) or with a larger input stage (P), offering more power (as a paying option).
** Others ratios are available upon request.

1: Calculation based on the ISO 6336-2 standard (life = 20,000 h, speed = nominal speed, internal temperature = 60°C, Application Factor = 1,25).
Using max 10% of the max radial load. Torque capacity decreases when the radial load increases. Please refer to the website for more information.
2: Calculation based on the ISO 6336-2 standard (life = 2,000 h, speed = nominal speed, internal temperature = 60°C, Safety Factor = 1,4).
This rating will not provide a 2 000 hours life if used at max speed. Contact us to get an estimation of the product lifetime in your application.
Using a torque higher than the rated torque may affect the gearbox precision.
3: 1 000 occurrences maximum.
4: Speed at which the nominal torque is applicable 20,000 hours.
5: Peak speed only.
6: Applied at the middle of the output shaft at 100 rpm.
7: Measured at full load and at 25°C
8: Lifetime at nominal torque and speed. Consult us to obtain a free estimation of lifetime in your working conditions
9: Room temperature. Refer to temperature factors in dedicated section.
10: Ratio 10 at nominal speed, measured at 1m.

LIVELY-CI-RA-040- 1 STAGE - RATIOS 4 TO 10
FOR MOTOR SHAFT ≤ Ø14

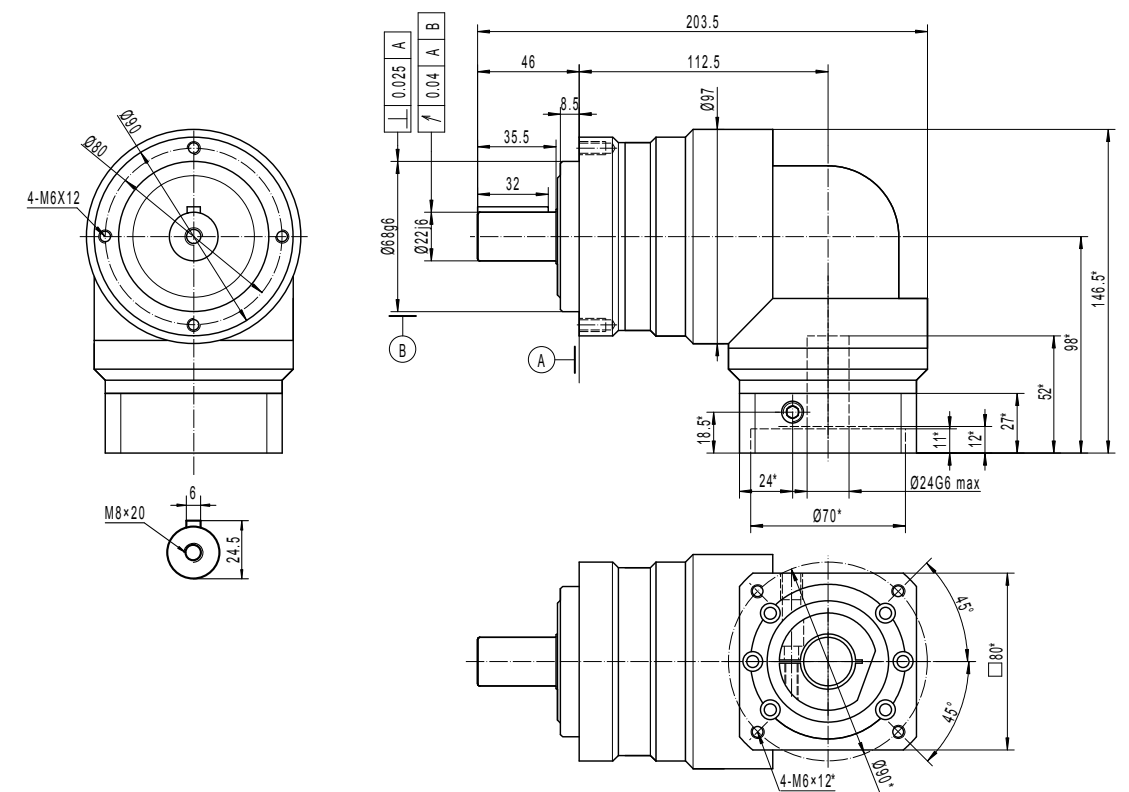


LIVELY-CI-RA-040- 2 STAGES-P - RATIOS 16 TO 100
FOR MOTOR SHAFT ≤ Ø14

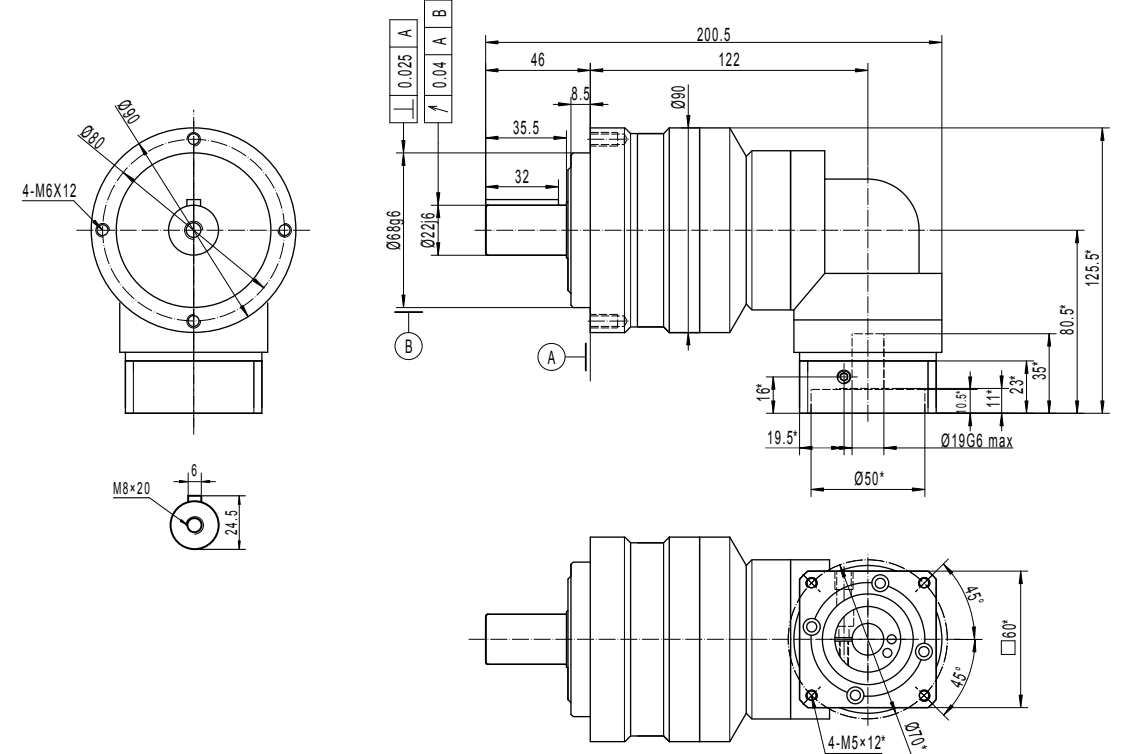


*VARIES WITH YOUR MOTOR DIMENSIONS

LIVELY-CI-RA-090-1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 24$

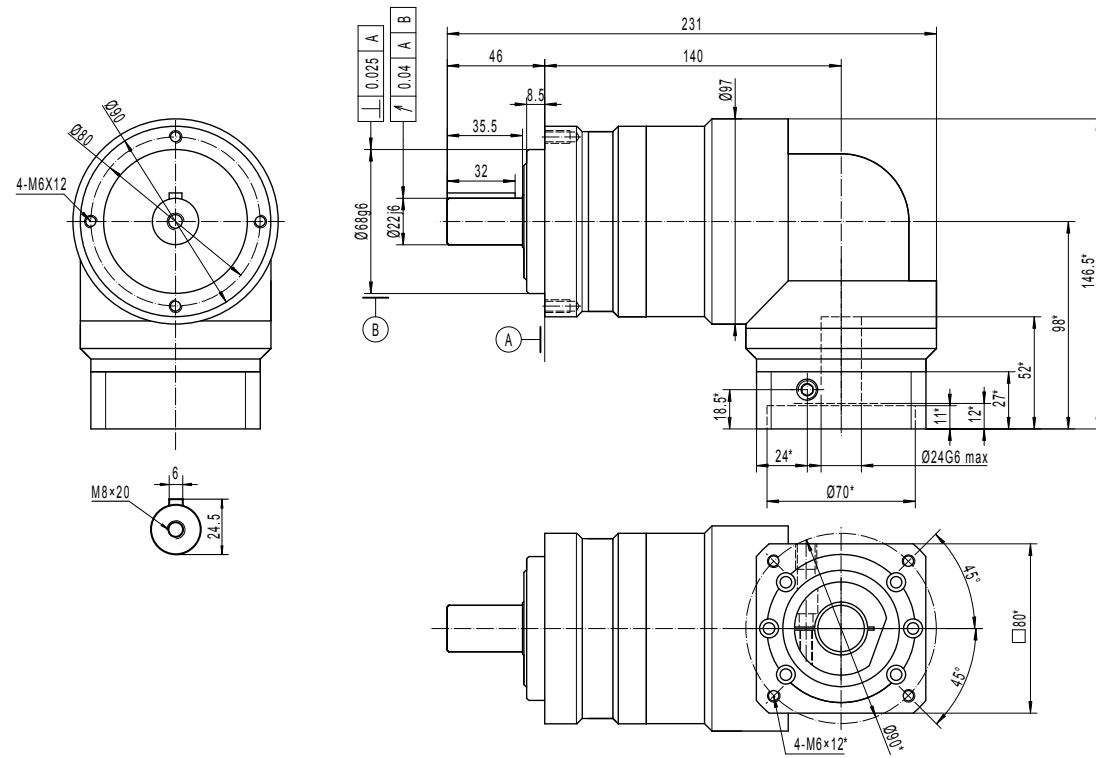


LIVELY-CI-RA-090- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 19$

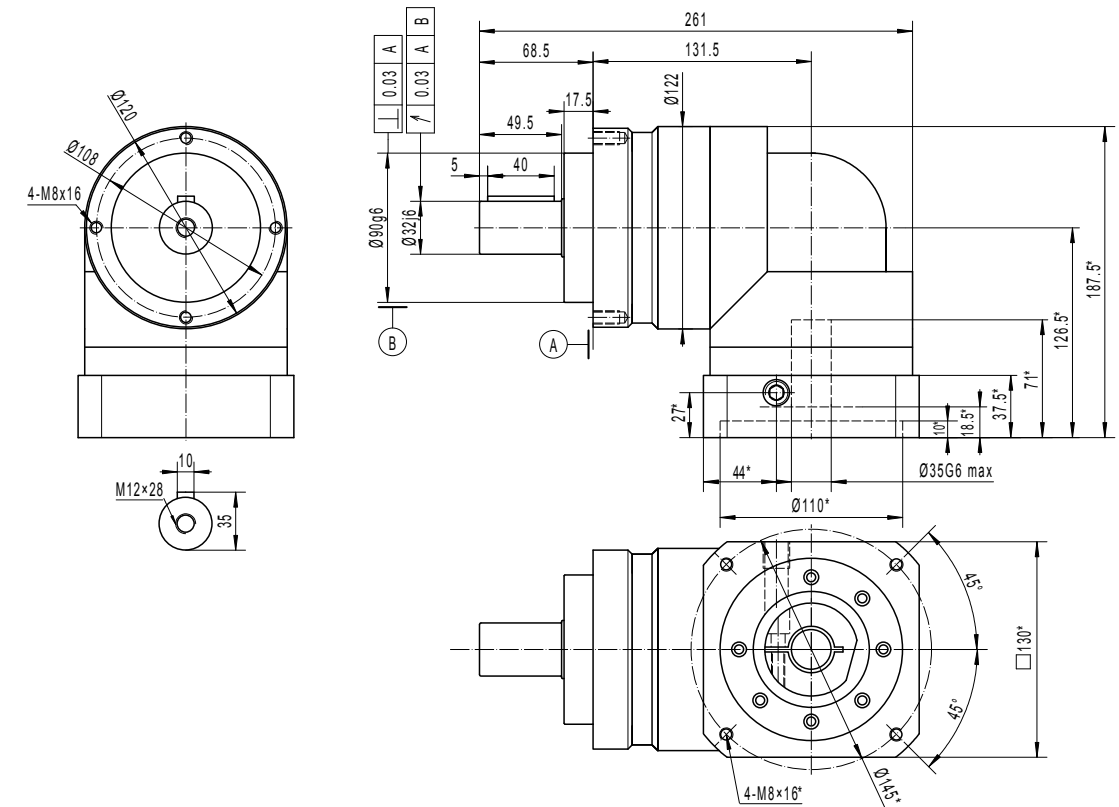


*VARIES WITH YOUR MOTOR DIMENSIONS

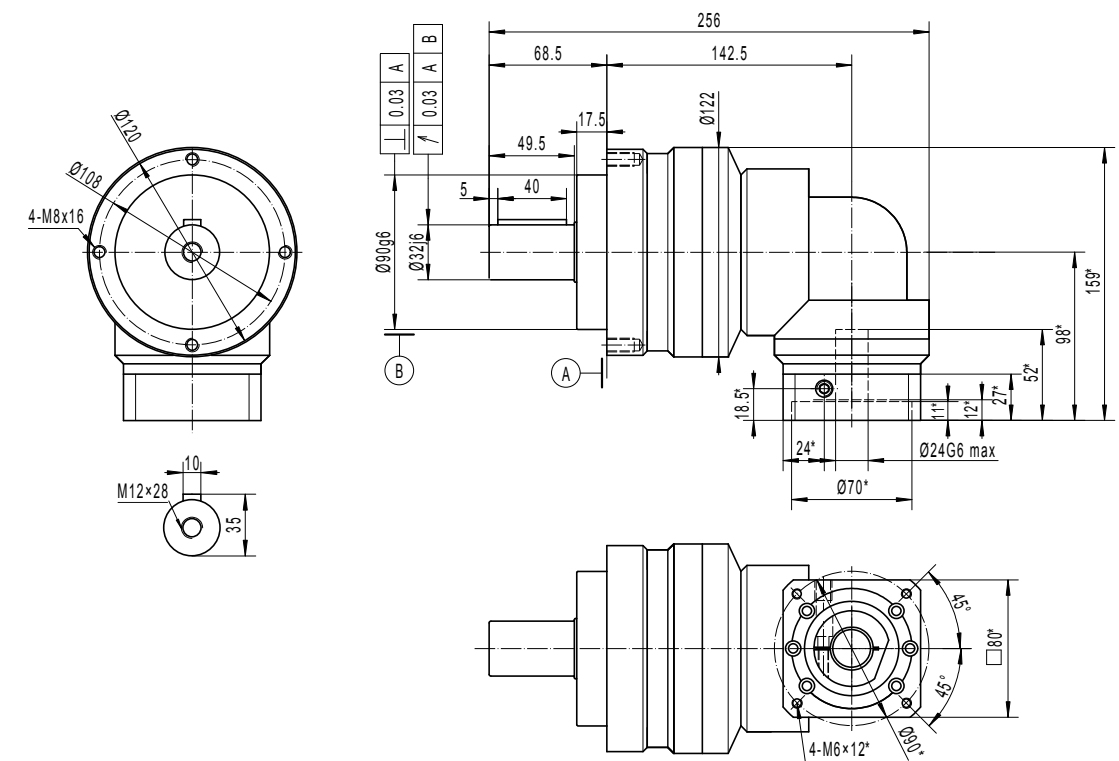
LIVELY-CI-RA-090- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 24$



LIVELY-CI-RA-120- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 35$



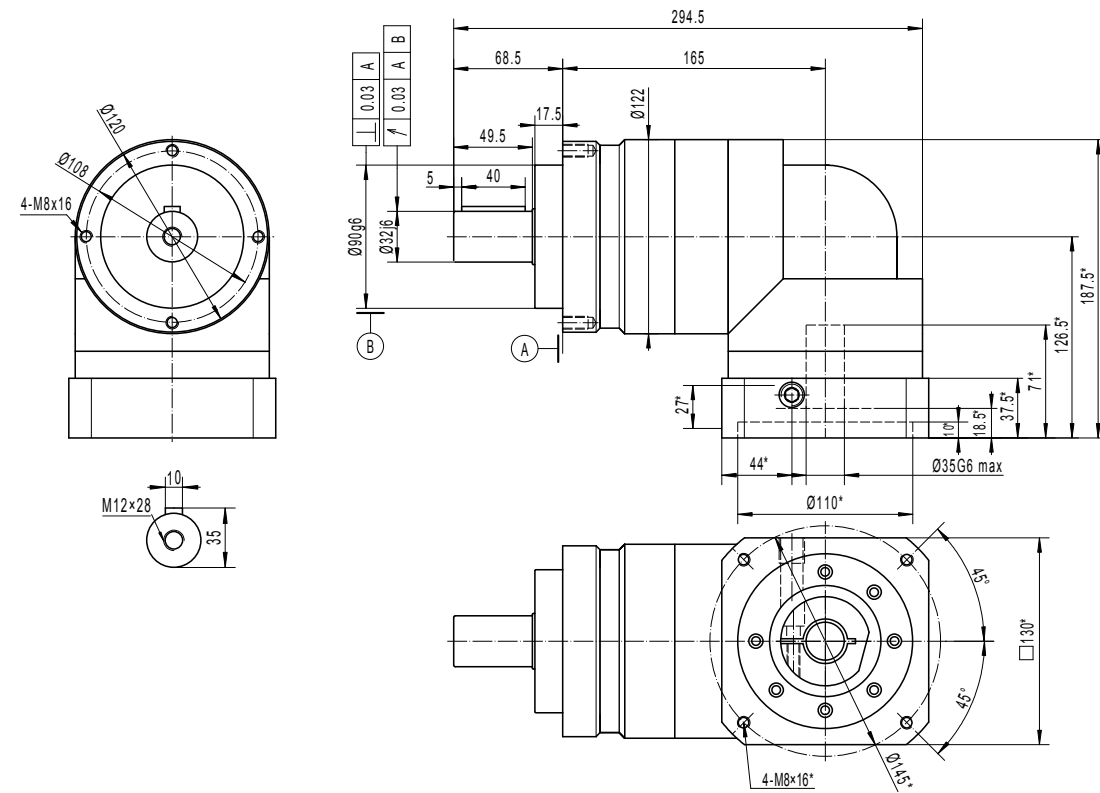
LIVELY-CI-RA-120- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 24$



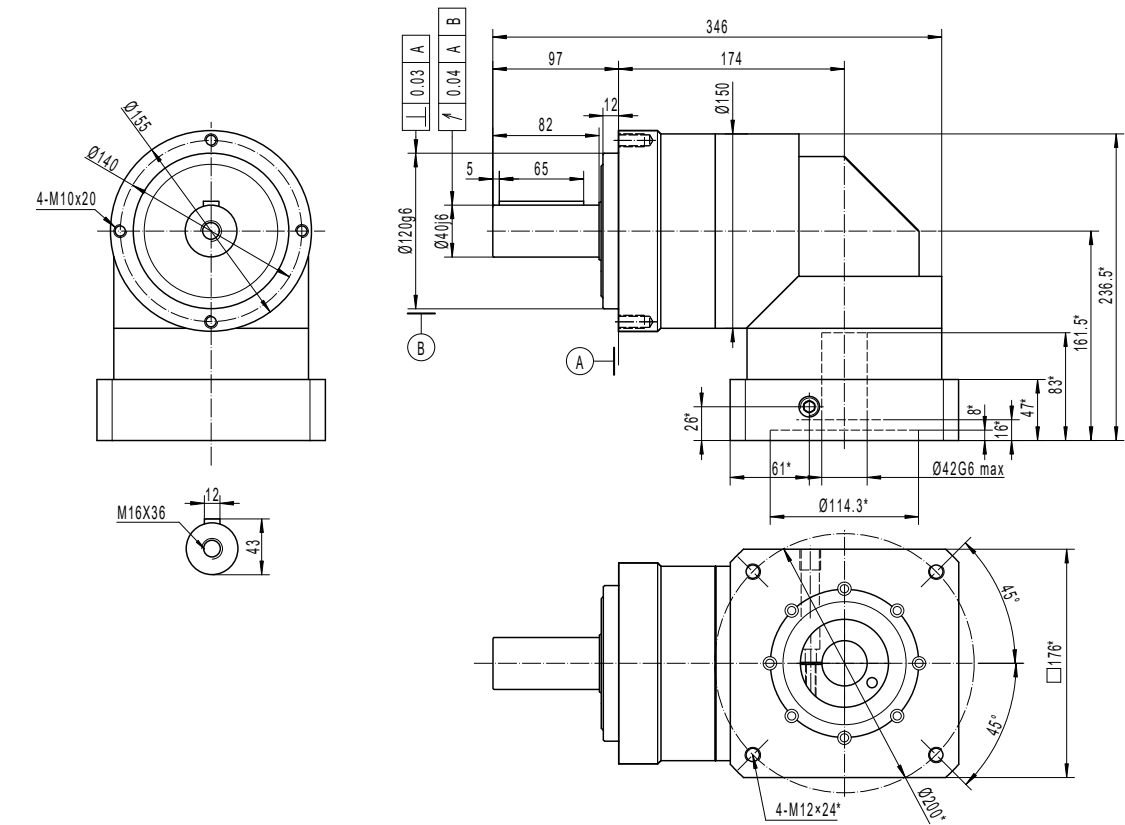
*VARIES WITH YOUR MOTOR DIMENSIONS

*VARIES WITH YOUR MOTOR DIMENSIONS

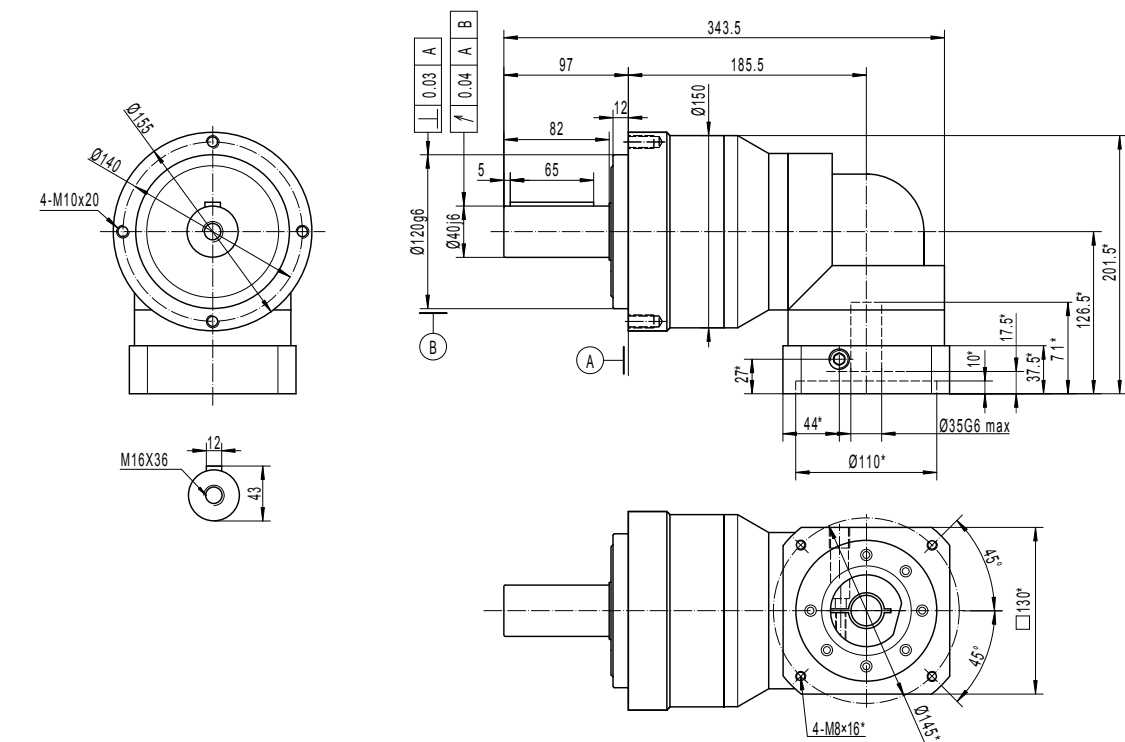
LIVELY-CI-RA-120- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 35$



LIVELY-CI-RA-155- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 42$



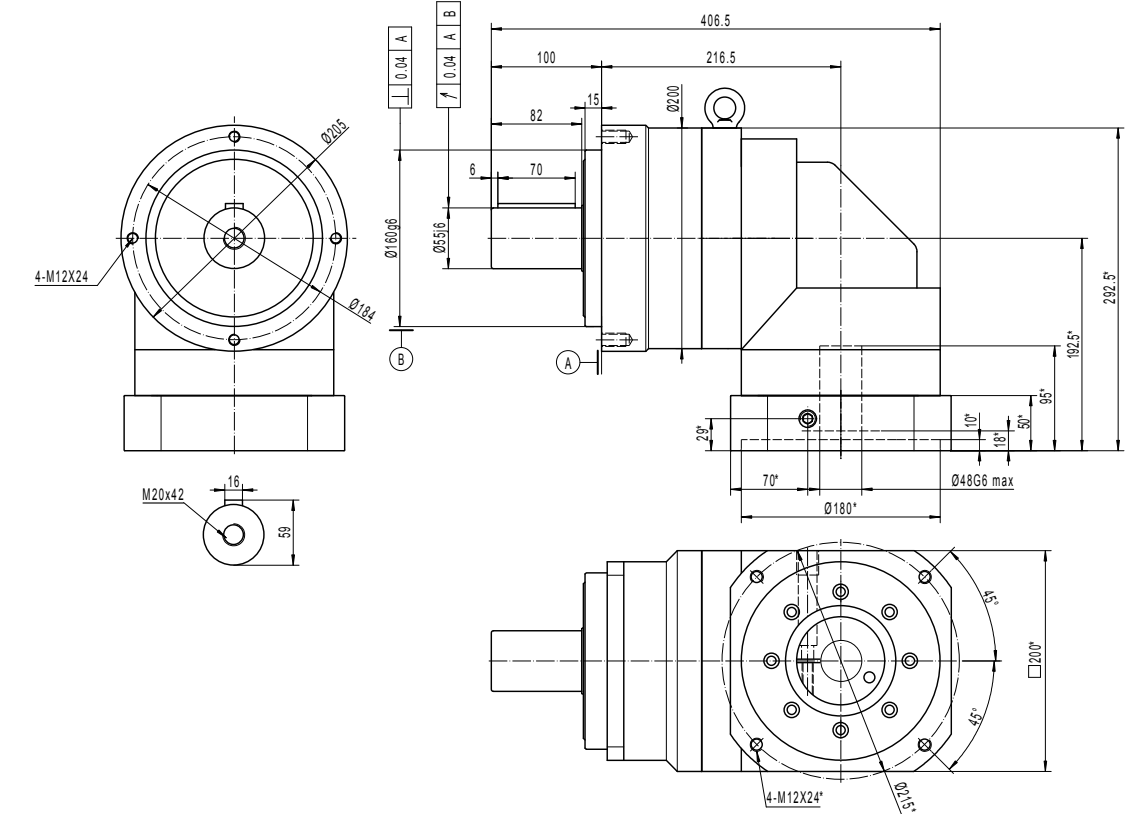
LIVELY-CI-RA-155- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 35$



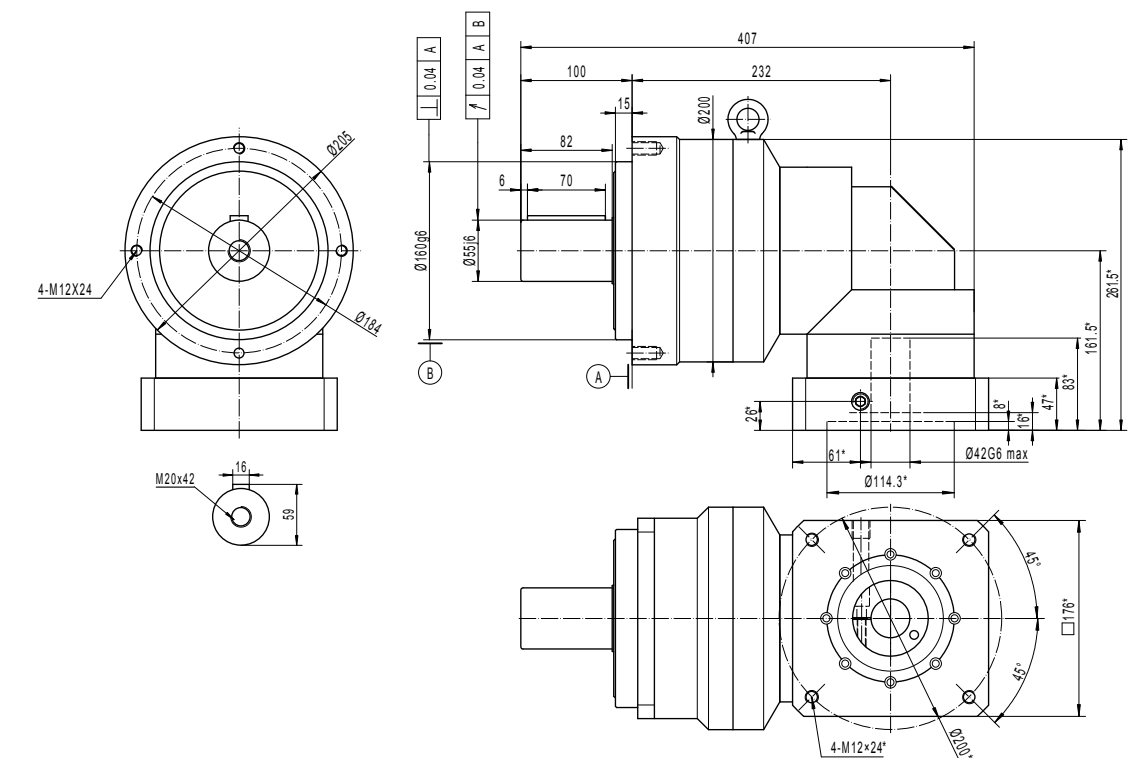
*VARIES WITH YOUR MOTOR DIMENSIONS

*VARIES WITH YOUR MOTOR DIMENSIONS

LIVELY-CI-RA-205-1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 48$



LIVELY-CI-RA-205- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 42$



*VARIES WITH YOUR MOTOR DIMENSIONS