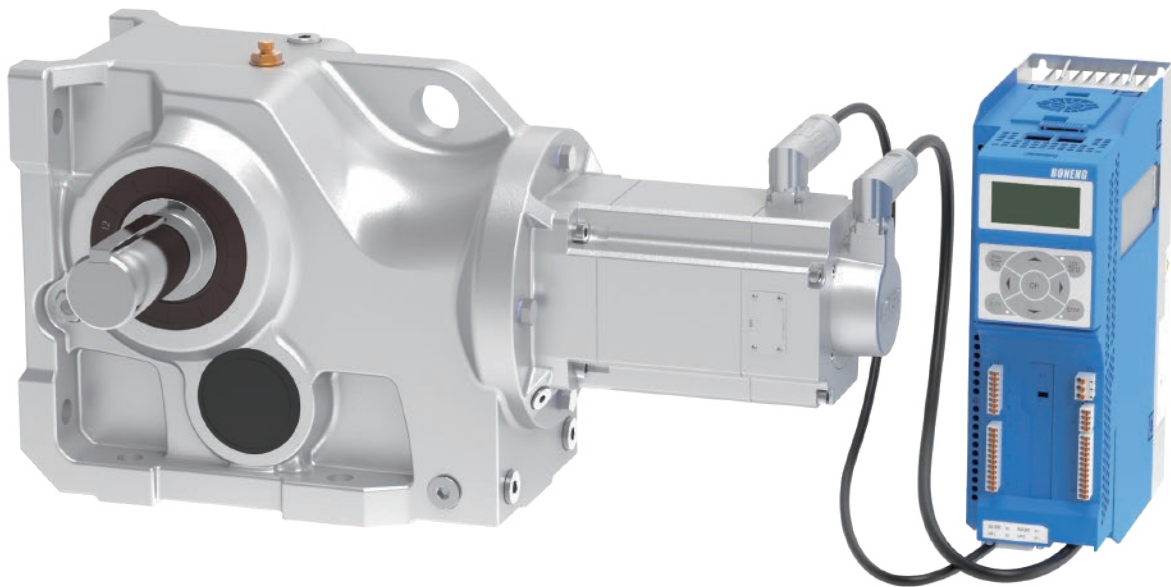


BONENG

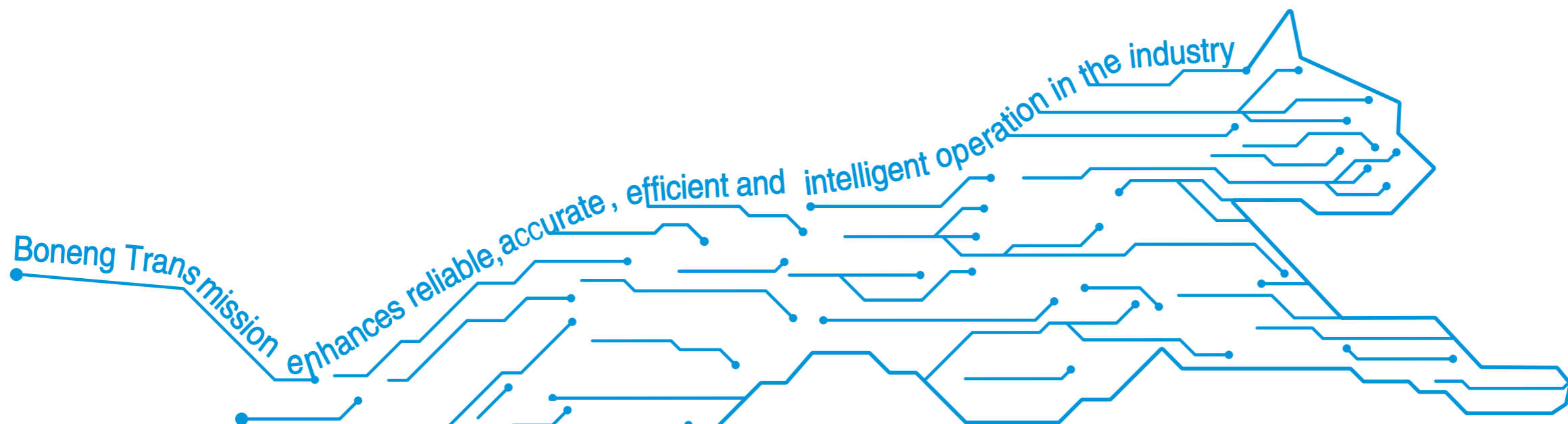


K-MX Helical-Bevel Servo Gearmotor & AX Servo Drives

(0.28kW~9.11kW)

Edit date 07/2023
Selection Catalogue: C05.0042-EN

Boneng Transmission



Controller/ Drive/ Motor/ Gearmotor/ Gearbox

Note:

- ◆ The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. (The unmarked dimension units are mm).
- ◆ The marked weight is average value, it has no constraint force.
- ◆ The marked oil quantity in sample is only reference value, actual oil filling quantity should be the same with the mark on oil immersion lens.

⚠ You must confirm to the following instructions:

- ◆ To prevent accidents, all the rotation parts are added with protective covers according to the safety regulations of the nation and region.
- ◆ Before debugging, you should carefully read instruction book.
- ◆ Gearmotor is on running-permission status when delivered, you should add lubrication oil before putting it into running.
- ◆ The gearmotor should be installed by technical staffs who could be familiar with corresponding security requirements. Security device should be required for preventing from accidents while installation position must be satisfied with regulations.

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Servo Gearmotor

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Servo Drive

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Type Designation

1.Type Designation

K 3 04 H A - C71 - D1 0 1 -

Series _____

Stages _____

3-stage

Size _____

Mounting Mode _____

H=Horizontal foot-mounted

F=Flange-mounted

S=Short flange-mounted

A=Shaft-mounted

T=Torque arm-mounted with bottom accessory

M=Torque arm-mounted with side accessory

Output Mode _____

A/B/D/E=Unidirectional output shaft

C/F=Bidirectional output shaft

G/H=Hollow shaft with parallel key

I/J=Hollow shaft with shrink disk

K/L=Hollow shaft with involute spline

Nominal Ratio Code _____

Mounting Positions _____

D1/D2/D3/D4/D5/D6

Accessories and Specific Configuration _____

0=None

1=Unconventional installation of gear

6=Oil compensating tank

B=Unconventional installation of gear and oil compensating tank

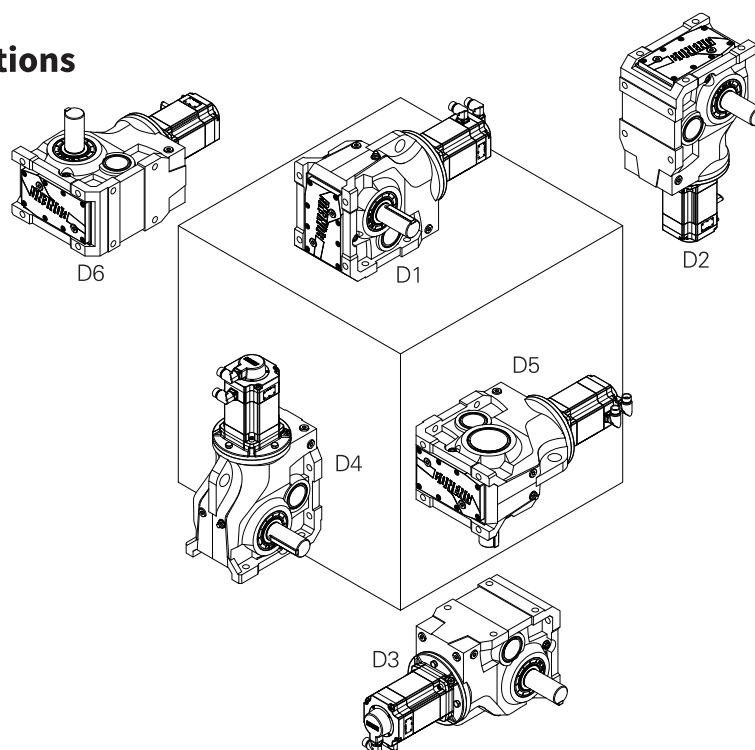
Oil Code _____

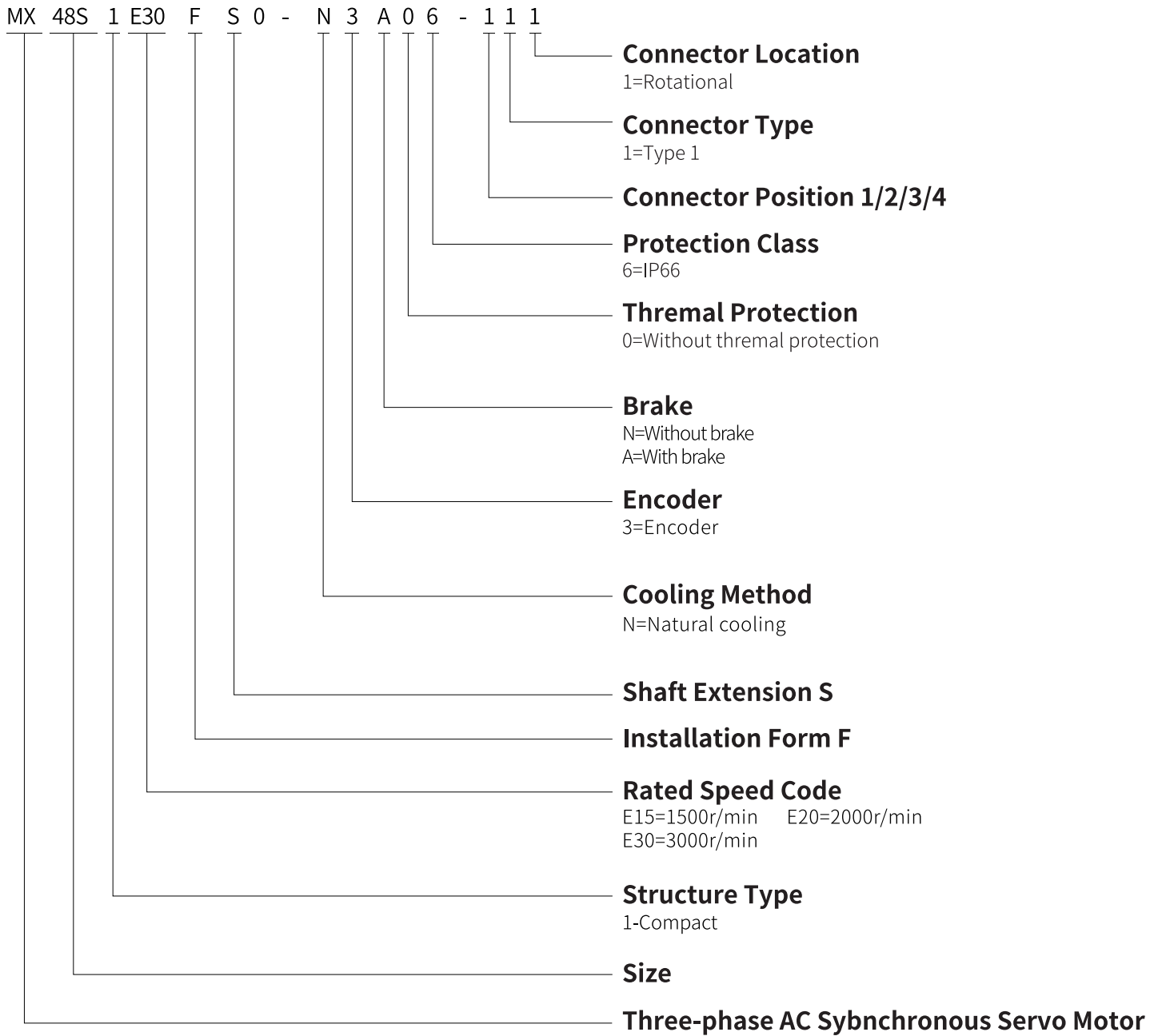
0=Without oil filling(Please select this option when you do not need lubricating oil)

1=With mineral oil VG220(Please select this option when the ambient temperature is -20°C~+40°C)

5=With synthetic lubricating oil VG220(It is recommended to select this option when you need lubricating oil and the ambient temperature is below 0°C)

2.Mounting Positions

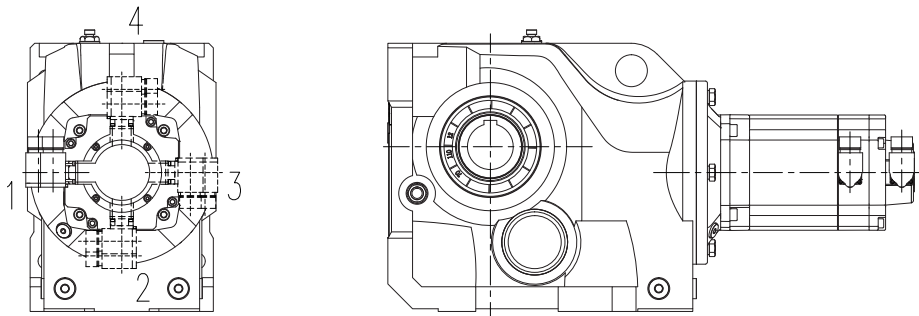




◆ Example of product type with AS input flange: K308HA-C32-D100-AS160

The standard color of the whole machine  RAL9006

3.Connector Position



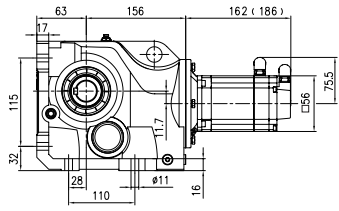
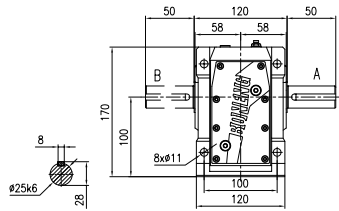
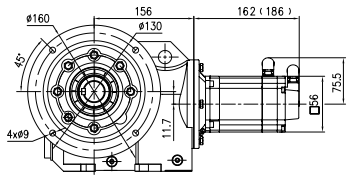
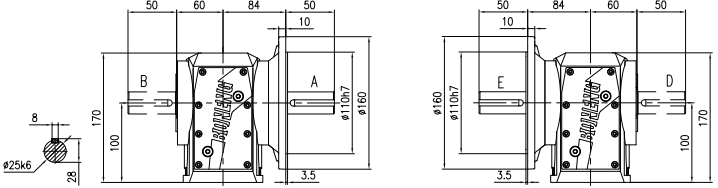
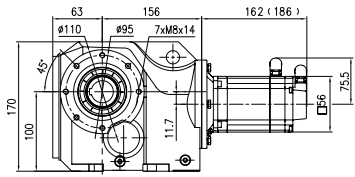
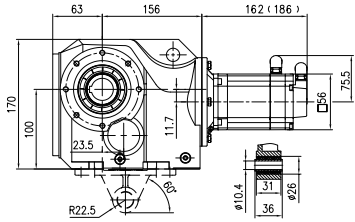
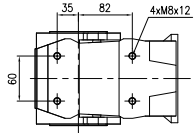
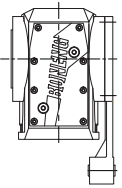
4. Transmission Capacity & Dimensions

Servo Gearmotor: 0.28kW 0.9Nm 0.9A-3000r/min

Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T ₂ (N.m)	Code	i_N	i_{ex}	i_z	T _{2N}	J 10 ⁻⁴ (kg.m ²)	Φ (°)	f
759	3.6	B40	4	3.95	585/148	150	2.9	20	41.67
673	4	B45	4.5	4.46	156/35	150	2.3	20	37.5
591	4.6	B50	5	5.08	325/64	150	1.9	20	32.61
523	5.2	B56	5.6	5.74	689/120	160	1.5	19	30.77
467	5.8	B63	6.3	6.42	7605/1184	180	1.7	17	31.03
414	6.5	B71	7.1	7.24	507/70	180	1.4	16	27.69
364	7.4	B80	8	8.25	65/8	180	1.1	16	24.32
322	8.4	B90	9	9.33	8957/960	180	0.92	16	21.43
283	9.5	C10	10	10.6	169/16	180	0.75	16	18.95
263	10	C11	11.2	11.4	91/8	180	0.68	16	18
236	11	C13	12.5	12.7	63765/5032	180	1.2	10	16.36
210	13	C14	14	14.3	8502/595	200	1	10	15.38
184	15	C16	16	16.3	35425/2176	200	0.86	10	13.33
163	17	C18	18	18.4	75101/4080	210	0.72	10	12.35
144	19	C20	20	20.8	1417/68	220	0.6	10	11.58
134	20	C22	22.4	22.4	763/34	225	0.55	10	11.25
117	23	C25	25	25.6	436/17	230	0.56	10	10
109	25	C28	28	27.6	6104/221	230	0.51	10	9.20
93.2	29	C32	31.5	32.2	161865/5032	230	0.9	9	7.93
82.6	33	C36	35.5	36.3	21582/595	230	0.77	9	6.97
72.6	37	C40	40	41.3	89925/2176	230	0.66	9	6.22
64.2	42	C45	45	46.7	63547/1360	230	0.56	9	5.48
56.7	48	C50	50	52.9	3597/68	230	0.47	9	4.79
52.6	51	C56	56	57	25179/442	230	0.44	9	4.51
45	60	C63	63	66.7	104313/1564	230	0.35	9	3.83
39.7	68	C71	71	75.6	17985/238	230	0.3	9	3.38
36	75	C80	80	83.3	226611/2720	230	0.28	9	3.07
32.9	82	C90	90	91.1	37169/408	230	0.24	9	2.8
30.1	90	D10	100	99.6	28776/289	230	0.21	9	2.56

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

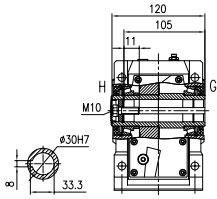
Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K303□□-B40-D□□□-MX028S1E30FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3A75-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A15-□□□ 18:Without brake 16:With brake Power Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-A20-K-D75
K303□□-B45-D□□□-MX028S1E30FS0						
K303□□-B50-D□□□-MX028S1E30FS0						
K303□□-B56-D□□□-MX028S1E30FS0						
K303□□-B63-D□□□-MX028S1E30FS0						
K303□□-B71-D□□□-MX028S1E30FS0						
K303□□-B80-D□□□-MX028S1E30FS0						
K303□□-B90-D□□□-MX028S1E30FS0						
K303□□-C10-D□□□-MX028S1E30FS0						
K303□□-C11-D□□□-MX028S1E30FS0						
K303□□-C13-D□□□-MX028S1E30FS0						
K303□□-C14-D□□□-MX028S1E30FS0						
K303□□-C16-D□□□-MX028S1E30FS0						
K303□□-C18-D□□□-MX028S1E30FS0						
K303□□-C20-D□□□-MX028S1E30FS0						
K303□□-C22-D□□□-MX028S1E30FS0						
K303□□-C25-D□□□-MX028S1E30FS0						
K303□□-C28-D□□□-MX028S1E30FS0						
K303□□-C32-D□□□-MX028S1E30FS0						
K303□□-C36-D□□□-MX028S1E30FS0						
K303□□-C40-D□□□-MX028S1E30FS0						
K303□□-C45-D□□□-MX028S1E30FS0						
K303□□-C50-D□□□-MX028S1E30FS0						
K303□□-C56-D□□□-MX028S1E30FS0						
K303□□-C63-D□□□-MX028S1E30FS0						
K303□□-C71-D□□□-MX028S1E30FS0						
K303□□-C80-D□□□-MX028S1E30FS0						
K303□□-C90-D□□□-MX028S1E30FS0						
K303□□-D10-D□□□-MX028S1E30FS0						

Mounting Mode	K303-MX028S1E30FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p style="text-align: center;">Horizontal foot-mounted H</p>	 <p style="text-align: center;">K303HA Unidirectional output shaft K303HB Unidirectional output shaft K303HC Bidirectional output shaft</p>	
Flange-mounted	 <p style="text-align: center;">Flange-mounted F</p>	 <p style="text-align: center;">K303FA Unidirectional output shaft K303FB Unidirectional output shaft K303FC Bidirectional output shaft</p> <p style="text-align: center;">K303FD Unidirectional output shaft K303FE Unidirectional output shaft K303FF Bidirectional output shaft</p>	
Short flange-mounted	 <p style="text-align: center;">Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p style="text-align: center;">Torque arm-mounted with accessory T</p>	 <p style="text-align: center;">Shaft-mounted A</p>  <p style="text-align: center;">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

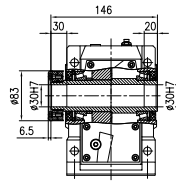
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K303-MX028S1E30FS0 Dimensions (mm)

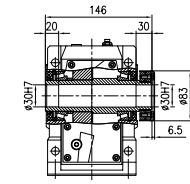
Corresponding Servo Drive Dimensions



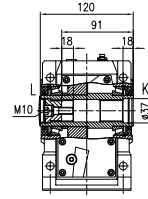
K303HG Hollow shaft with parallel key
K303HH Hollow shaft with parallel key



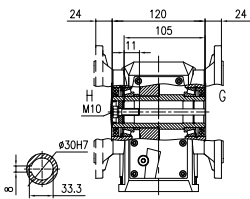
K303HI Hollow shaft with shrink disk



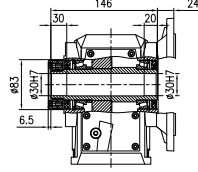
K303HJ Hollow shaft with shrink disk



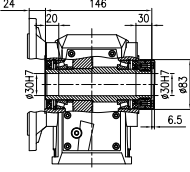
K303HK Hollow shaft with involute spline
K303HL Hollow shaft with involute spline



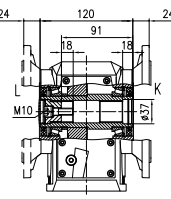
K303FG Hollow shaft with parallel key
K303FH Hollow shaft with parallel key



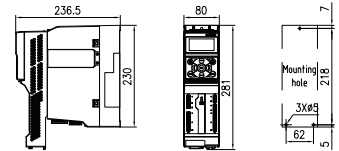
K303FI Hollow shaft with shrink disk



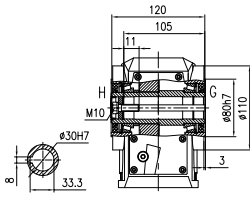
K303FJ Hollow shaft with shrink disk



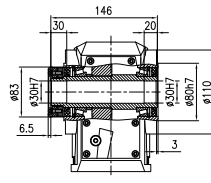
K303FK Hollow shaft with involute spline
K303FL Hollow shaft with involute spline



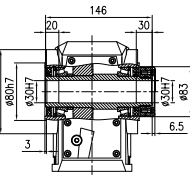
Control module: AX-CM55-PA-PE(ProfNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3A75-N(without filter)
or AX-PM26-B3A75-F(with filter)
Operation panel: A1-OP25



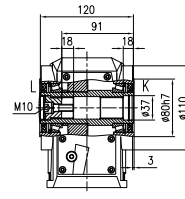
K303SG Hollow shaft with parallel key
K303SH Hollow shaft with parallel key



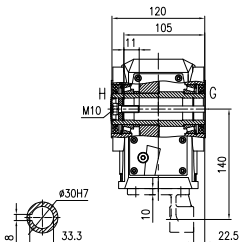
K303SI Hollow shaft with shrink disk



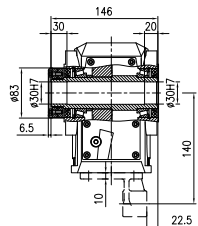
K303SJ Hollow shaft with shrink disk



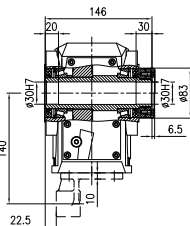
K303SK Hollow shaft with involute spline
K303SL Hollow shaft with involute spline



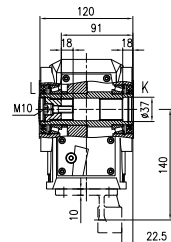
K303AG Hollow shaft with parallel key
K303AH Hollow shaft with parallel key
K303TG Hollow shaft with parallel key
K303TH Hollow shaft with parallel key



K303AI Hollow shaft with shrink disk
K303TI Hollow shaft with shrink disk



K303AJ Hollow shaft with shrink disk
K303TJ Hollow shaft with shrink disk



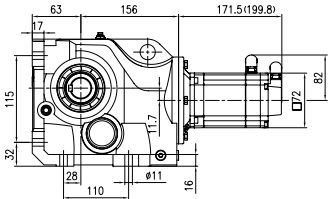
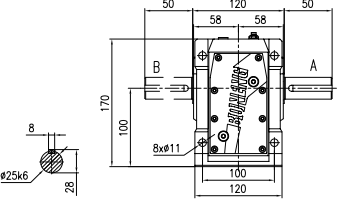
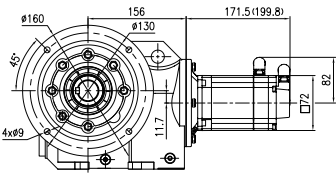
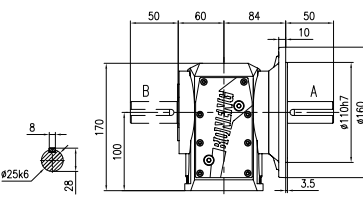
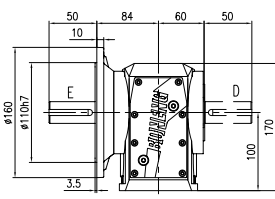
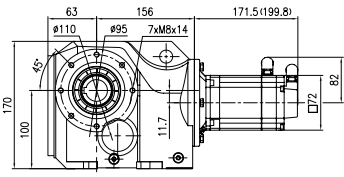
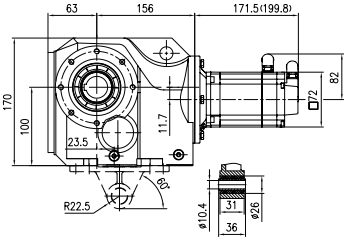
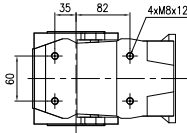
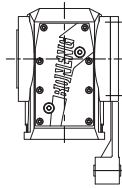
K303AK Hollow shaft with involute spline
K303AL Hollow shaft with involute spline
K303TK Hollow shaft with involute spline
K303TL Hollow shaft with involute spline

Servo Gearmotor: 0.47kW 1.5Nm 1.15A-3000r/min

Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T ₂ (N.m)	Code	i_N	i_{ex}	i_z	T _{2N}	J 10 ⁻⁴ (kg.m ²)	Φ (°)	f
759	5.9	B40	4	3.95	585/148	150	2.9	20	25.42
673	6.7	B45	4.5	4.46	156/35	150	2.3	20	22.39
591	7.6	B50	5	5.08	325/64	150	1.9	20	19.74
523	8.6	B56	5.6	5.74	689/120	160	1.5	19	18.6
467	9.6	B63	6.3	6.42	7605/1184	180	1.7	17	18.75
414	11	B71	7.1	7.24	507/70	180	1.4	16	16.36
364	12	B80	8	8.25	65/8	180	1.1	16	15
322	14	B90	9	9.33	8957/960	180	0.92	16	12.86
283	16	C10	10	10.6	169/16	180	0.75	16	11.25
263	17	C11	11.2	11.4	91/8	180	0.68	16	10.59
236	19	C13	12.5	12.7	63765/5032	180	1.2	10	9.47
210	21	C14	14	14.3	8502/595	200	1	10	9.52
184	24	C16	16	16.3	35425/2176	200	0.86	10	8.33
163	28	C18	18	18.4	75101/4080	210	0.72	10	7.5
144	31	C20	20	20.8	1417/68	220	0.6	10	7.1
134	34	C22	22.4	22.4	763/34	225	0.55	10	6.62
117	38	C25	25	25.6	436/17	230	0.56	10	6.05
109	41	C28	28	27.6	6104/221	230	0.51	10	5.61
93.2	48	C32	31.5	32.2	161865/5032	230	0.9	9	4.79
82.6	54	C36	35.5	36.3	21582/595	230	0.77	9	4.26
72.6	62	C40	40	41.3	89925/2176	230	0.66	9	3.71
64.2	70	C45	45	46.7	63547/1360	230	0.56	9	3.29
56.7	79	C50	50	52.9	3597/68	230	0.47	9	2.91
52.6	86	C56	56	57	25179/442	230	0.44	9	2.67
45	100	C63	63	66.7	104313/1564	230	0.35	9	2.3
39.7	113	C71	71	75.6	17985/238	230	0.3	9	2.04
36	125	C80	80	83.3	226611/2720	230	0.28	9	1.84
32.9	137	C90	90	91.1	37169/408	230	0.24	9	1.68
30.1	149	D10	100	99.6	28776/289	230	0.21	9	1.54

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

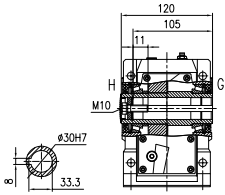
Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K303□□-B40-D□□□-MX036S1E30FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3A75-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A15-□□□ 18:Without brake 16:With brake Power Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-A20-K-D75
K303□□-B45-D□□□-MX036S1E30FS0						
K303□□-B50-D□□□-MX036S1E30FS0						
K303□□-B56-D□□□-MX036S1E30FS0						
K303□□-B63-D□□□-MX036S1E30FS0						
K303□□-B71-D□□□-MX036S1E30FS0						
K303□□-B80-D□□□-MX036S1E30FS0						
K303□□-B90-D□□□-MX036S1E30FS0						
K303□□-C10-D□□□-MX036S1E30FS0						
K303□□-C11-D□□□-MX036S1E30FS0						
K303□□-C13-D□□□-MX036S1E30FS0						
K303□□-C14-D□□□-MX036S1E30FS0						
K303□□-C16-D□□□-MX036S1E30FS0						
K303□□-C18-D□□□-MX036S1E30FS0						
K303□□-C20-D□□□-MX036S1E30FS0						
K303□□-C22-D□□□-MX036S1E30FS0						
K303□□-C25-D□□□-MX036S1E30FS0						
K303□□-C28-D□□□-MX036S1E30FS0						
K303□□-C32-D□□□-MX036S1E30FS0						
K303□□-C36-D□□□-MX036S1E30FS0						
K303□□-C40-D□□□-MX036S1E30FS0						
K303□□-C45-D□□□-MX036S1E30FS0						
K303□□-C50-D□□□-MX036S1E30FS0						
K303□□-C56-D□□□-MX036S1E30FS0						
K303□□-C63-D□□□-MX036S1E30FS0						
K303□□-C71-D□□□-MX036S1E30FS0						
K303□□-C80-D□□□-MX036S1E30FS0						
K303□□-C90-D□□□-MX036S1E30FS0						
K303□□-D10-D□□□-MX036S1E30FS0						

Mounting Mode	K303-MX036S1E30FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="332 581 565 603">Horizontal foot-mounted H</p>	 <p data-bbox="958 581 1258 648">K303HA Unidirectional output shaft K303HB Unidirectional output shaft K303HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="370 995 524 1017">Flange-mounted F</p>	 <p data-bbox="820 995 1120 1061">K303FA Unidirectional output shaft K303FB Unidirectional output shaft K303FC Bidirectional output shaft</p>	 <p data-bbox="1201 995 1502 1061">K303FD Unidirectional output shaft K303FE Unidirectional output shaft K303FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="344 1426 552 1448">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="300 1902 633 1924">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1071 1924">Shaft-mounted A</p>	 <p data-bbox="1226 1858 1461 1968">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

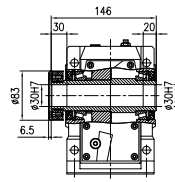
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K303-MX036S1E30FS0 Dimensions (mm)

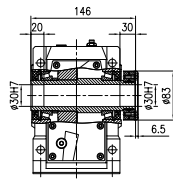
Corresponding Servo Drive Dimensions



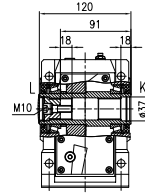
K303HG Hollow shaft with parallel key
K303HH Hollow shaft with parallel key



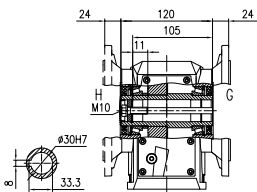
K303HI Hollow shaft with shrink disk



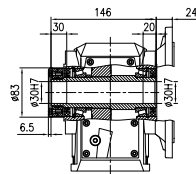
K303HJ Hollow shaft with shrink disk



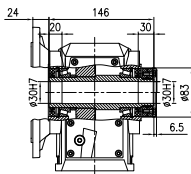
K303HK Hollow shaft with involute spline
K303HL Hollow shaft with involute spline



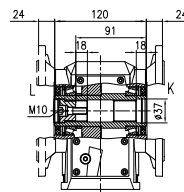
K303FG Hollow shaft with parallel key
K303FH Hollow shaft with parallel key



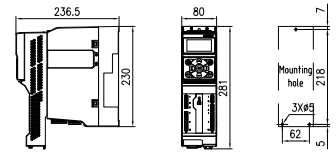
K303FI Hollow shaft with shrink disk



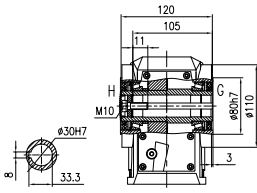
K303FJ Hollow shaft with shrink disk



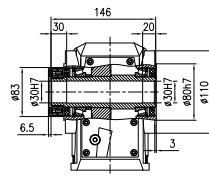
K303FK Hollow shaft with involute spline
K303FL Hollow shaft with involute spline



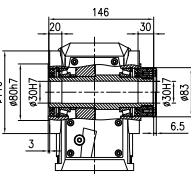
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3A75-N(without filter)
or AX-PM26-B3A75-F(with filter)
Operation panel: A1-OP25



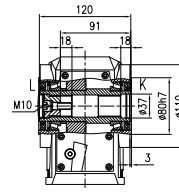
K303SG Hollow shaft with parallel key
K303SH Hollow shaft with parallel key



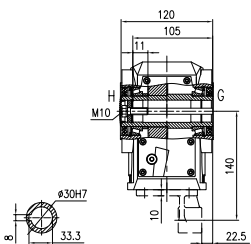
K303SI Hollow shaft with shrink disk



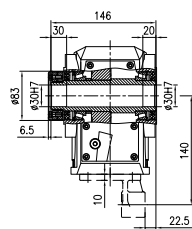
K303SJ Hollow shaft with shrink disk



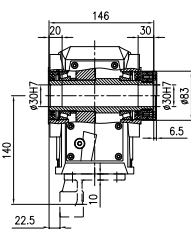
K303SK Hollow shaft with involute spline
K303SL Hollow shaft with involute spline



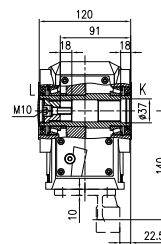
K303AG Hollow shaft with parallel key
K303AH Hollow shaft with parallel key
K303TG Hollow shaft with parallel key
K303TH Hollow shaft with parallel key



K303AI Hollow shaft with shrink disk
K303TI Hollow shaft with shrink disk



K303AJ Hollow shaft with shrink disk
K303TJ Hollow shaft with shrink disk



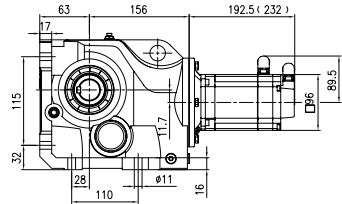
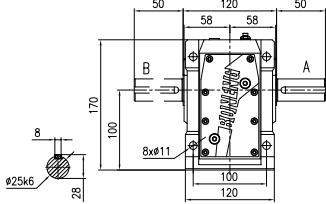
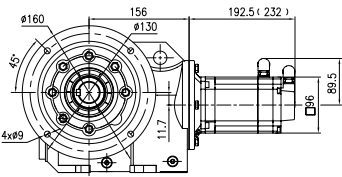
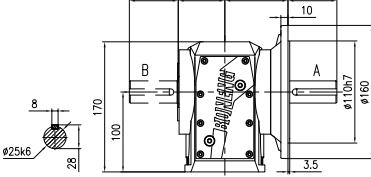
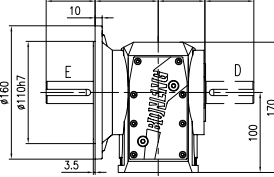
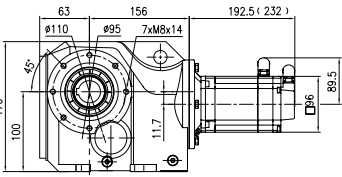
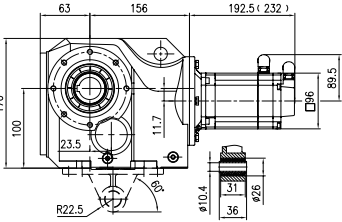
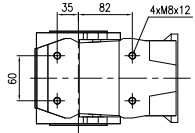
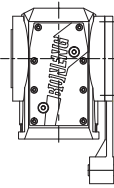
K303AK Hollow shaft with involute spline
K303AL Hollow shaft with involute spline
K303TK Hollow shaft with involute spline
K303TL Hollow shaft with involute spline

Servo Gearmotor: 1kW 3.2Nm 2.2A-3000r/min

Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T ₂ (N.m)	Code	i_N	i_{ex}	i_z	T _{2N}	J 10 ⁻⁴ (kg.m ²)	Φ (°)	f
759	13	B40	4	3.95	585/148	150	2.9	20	11.54
673	14	B45	4.5	4.46	156/35	150	2.3	20	10.71
591	16	B50	5	5.08	325/64	150	1.9	20	9.38
523	18	B56	5.6	5.74	689/120	160	1.5	19	8.89
467	21	B63	6.3	6.42	7605/1184	180	1.7	17	8.57
414	23	B71	7.1	7.24	507/70	180	1.4	16	7.83
364	26	B80	8	8.25	65/8	180	1.1	16	6.92
322	30	B90	9	9.33	8957/960	180	0.92	16	6
283	34	C10	10	10.6	169/16	180	0.75	16	5.29
263	36	C11	11.2	11.4	91/8	180	0.68	16	5
236	41	C13	12.5	12.7	63765/5032	180	1.2	10	4.39
210	46	C14	14	14.3	8502/595	200	1	10	4.35
184	52	C16	16	16.3	35425/2176	200	0.86	10	3.85
163	59	C18	18	18.4	75101/4080	210	0.72	10	3.56
144	67	C20	20	20.8	1417/68	220	0.6	10	3.28
134	72	C22	22.4	22.4	763/34	225	0.55	10	3.13
117	82	C25	25	25.6	436/17	230	0.56	10	2.80
109	88	C28	28	27.6	6104/221	230	0.51	10	2.61
93.2	103	C32	31.5	32.2	161865/5032	230	0.9	9	2.23
82.6	116	C36	35.5	36.3	21582/595	230	0.77	9	1.98
72.6	132	C40	40	41.3	89925/2176	230	0.66	9	1.74
64.2	149	C45	45	46.7	63547/1360	230	0.56	9	1.54
71.8	134	C40	40	41.8	9240/221	450	1.4	8	3.36
63.6	151	C45	45	47.2	29700/629	450	1.2	8	2.98
57.3	168	C50	50	52.4	891/17	450	1.1	8	2.68
49.9	192	C56	56	60.1	16335/272	450	0.95	8	2.34
45.5	211	C63	63	66	66/1	450	0.81	8	2.13
40.3	238	C71	71	74.4	1265/17	450	0.69	8	1.89
37.7	254	C80	80	79.5	35145/442	450	0.64	8	1.77
32.5	296	C90	90	92.4	36135/391	450	0.52	8	1.52
41	234	C71	71	73.2	228855/3128	520	0.54	8	2.22
36.5	263	C80	80	82.3	78375/952	520	0.46	8	1.98
33.4	288	C90	90	89.9	24453/272	520	0.42	8	1.81
30.4	316	D10	100	98.6	80465/816	520	0.36	8	1.65
28	343	D11	112	107.1	247665/2312	520	0.32	8	1.52

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

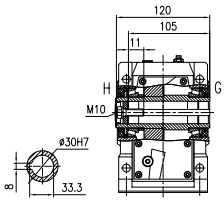
Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K303□□-B40-D□□□-MX048S1E30FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3B15-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A15-□□□ 18:Without brake 16:With brake Power B30:3m Cable B50:5m Length B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal B30:3m Cable B50:5m Length B70:7m C10:10m C15:15m C20:20m	A1-H02-A40-K-D39
K303□□-B45-D□□□-MX048S1E30FS0						
K303□□-B50-D□□□-MX048S1E30FS0						
K303□□-B56-D□□□-MX048S1E30FS0						
K303□□-B63-D□□□-MX048S1E30FS0						
K303□□-B71-D□□□-MX048S1E30FS0						
K303□□-B80-D□□□-MX048S1E30FS0						
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K303□□-C10-D□□□-MX048S1E30FS0						
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K305□□-C90-D□□□-MX048S1E30FS0						
K305□□-D10-D□□□-MX048S1E30FS0						
K305□□-D11-D□□□-MX048S1E30FS0						

Mounting Mode	K303-MX048S1E30FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p style="text-align: center;">Horizontal foot-mounted H</p>	 <p style="text-align: center;">K303HA Unidirectional output shaft K303HB Unidirectional output shaft K303HC Bidirectional output shaft</p>	
Flange-mounted	 <p style="text-align: center;">Flange-mounted F</p>	 <p style="text-align: center;">K303FA Unidirectional output shaft K303FB Unidirectional output shaft K303FC Bidirectional output shaft</p>	 <p style="text-align: center;">K303FD Unidirectional output shaft K303FE Unidirectional output shaft K303FF Bidirectional output shaft</p>
Short flange-mounted	 <p style="text-align: center;">Short flange-mounted S</p>		
Shaft-mounted	   <p style="text-align: center;">Torque arm-mounted with accessory T</p> <p style="text-align: center;">Shaft-mounted A</p> <p style="text-align: center;">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>		

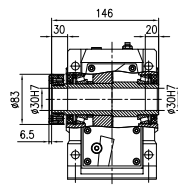
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K303-MX048S1E30FS0 Dimensions (mm)

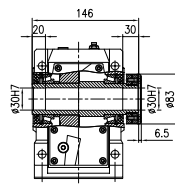
Corresponding Servo Drive Dimensions



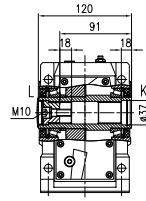
K303HG Hollow shaft with parallel key
K303HH Hollow shaft with parallel key



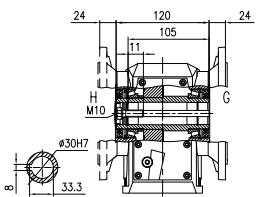
K303HI Hollow shaft with shrink disk



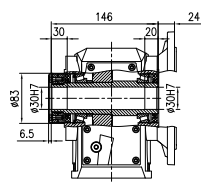
K303HJ Hollow shaft with shrink disk



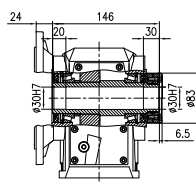
K303HK Hollow shaft with involute spline
K303HL Hollow shaft with involute spline



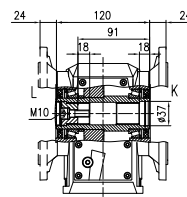
K303FG Hollow shaft with parallel key
K303FH Hollow shaft with parallel key



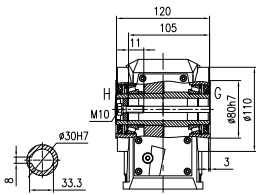
K303FI Hollow shaft with shrink disk



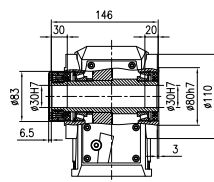
K303FJ Hollow shaft with shrink disk



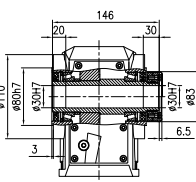
K303FK Hollow shaft with involute spline
K303FL Hollow shaft with involute spline



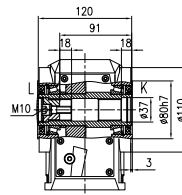
K303SG Hollow shaft with parallel key
K303SH Hollow shaft with parallel key



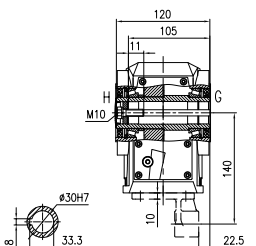
K303SI Hollow shaft with shrink disk



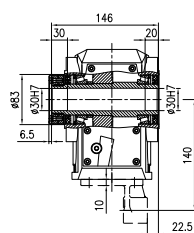
K303SJ Hollow shaft with shrink disk



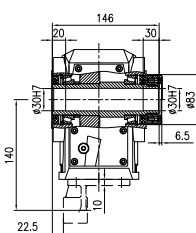
K303SK Hollow shaft with involute spline
K303SL Hollow shaft with involute spline



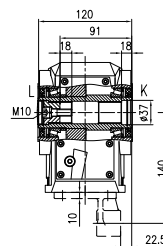
K303AG Hollow shaft with parallel key
K303AH Hollow shaft with parallel key
K303TG Hollow shaft with parallel key
K303TH Hollow shaft with parallel key



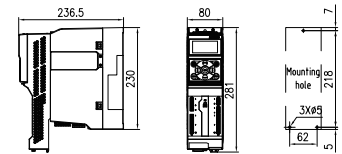
K303AI Hollow shaft with shrink disk
K303TI Hollow shaft with shrink disk



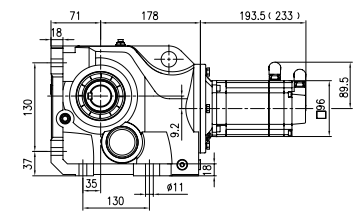
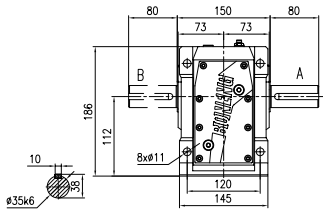
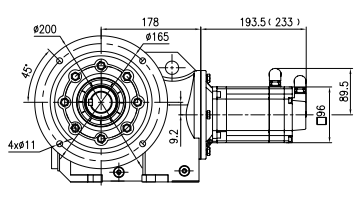
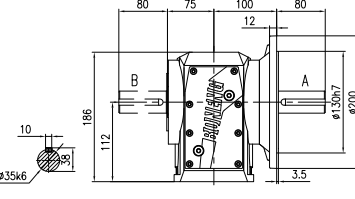
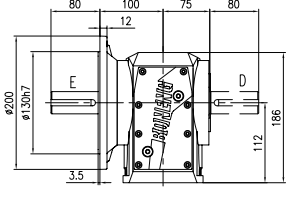
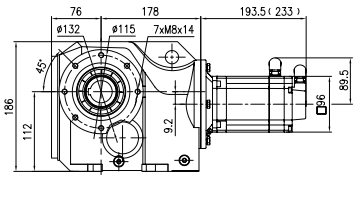
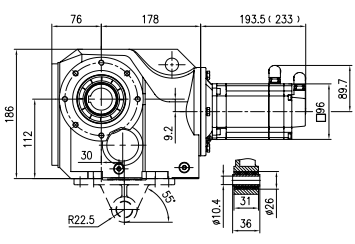
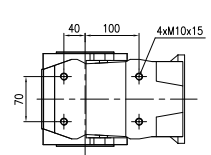
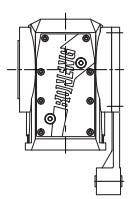
K303AJ Hollow shaft with shrink disk
K303TJ Hollow shaft with shrink disk



K303AK Hollow shaft with involute spline
K303AL Hollow shaft with involute spline
K303TK Hollow shaft with involute spline
K303TL Hollow shaft with involute spline



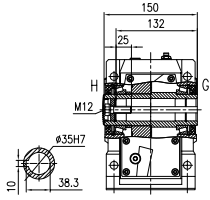
Control module: AX-CM55-PA-PE(ProfNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B15-N(without filter)
or AX-PM26-B3B15-F(with filter)
Operation panel: A1-OP25

Mounting Mode	K304-MX048S1E30FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="324 586 568 608">Horizontal foot-mounted H</p>	 <p data-bbox="958 586 1266 652">K304HA Unidirectional output shaft K304HB Unidirectional output shaft K304HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="373 1006 519 1028">Flange-mounted F</p>	 <p data-bbox="812 1006 1120 1072">K304FA Unidirectional output shaft K304FB Unidirectional output shaft K304FC Bidirectional output shaft</p>	 <p data-bbox="1201 1006 1510 1072">K304FD Unidirectional output shaft K304FE Unidirectional output shaft K304FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="341 1426 552 1448">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="292 1902 633 1924">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1071 1924">Shaft-mounted A</p>	 <p data-bbox="1218 1858 1461 1968">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>
Torque arm-mounted with accessory			

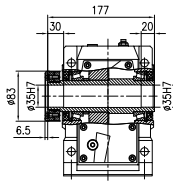
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K304-MX048S1E30FS0 Dimensions (mm)

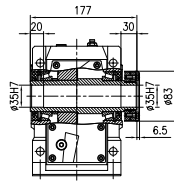
Corresponding Servo Drive Dimensions



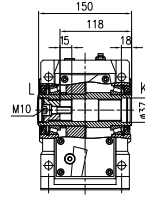
K304HG Hollow shaft with parallel key
K304HH Hollow shaft with parallel key



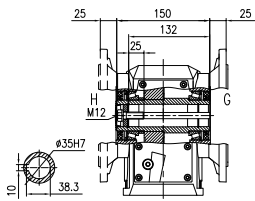
K304HI Hollow shaft with shrink disk



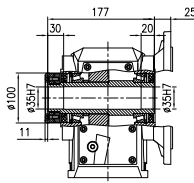
K304HJ Hollow shaft with shrink disk



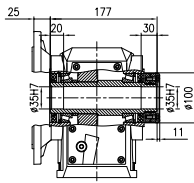
K304HK Hollow shaft with involute spline
K304HL Hollow shaft with involute spline



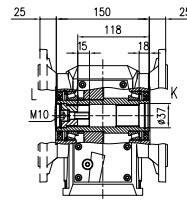
K304FG Hollow shaft with parallel key
K304FH Hollow shaft with parallel key



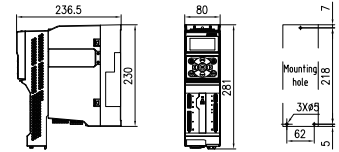
K304FI Hollow shaft with shrink disk



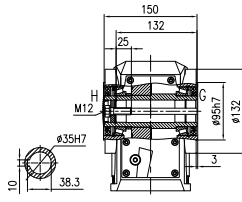
K304FJ Hollow shaft with shrink disk



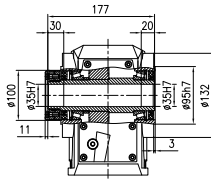
K304FK Hollow shaft with involute spline
K304FL Hollow shaft with involute spline



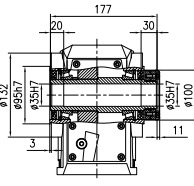
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B15-N(without filter)
or AX-PM26-B3B15-F(with filter)
Operation panel: A1-OP25



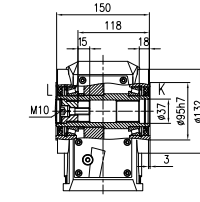
K304SG Hollow shaft with parallel key
K304SH Hollow shaft with parallel key



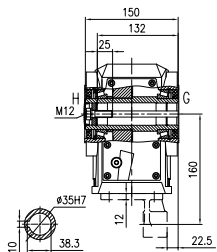
K304SI Hollow shaft with shrink disk



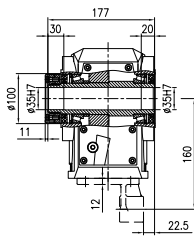
K304SJ Hollow shaft with shrink disk



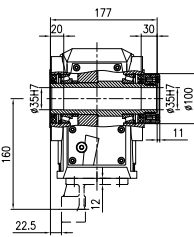
K304SK Hollow shaft with involute spline
K304SL Hollow shaft with involute spline



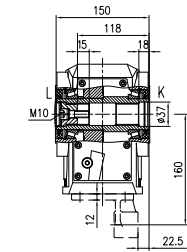
K304AG Hollow shaft with parallel key
K304AH Hollow shaft with parallel key
K304TG Hollow shaft with parallel key
K304TH Hollow shaft with parallel key



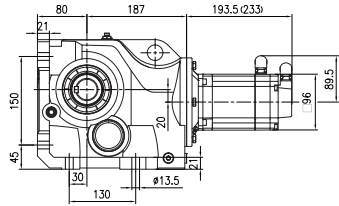
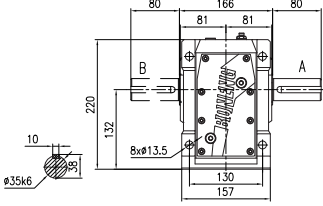
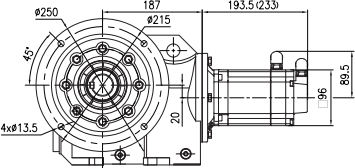
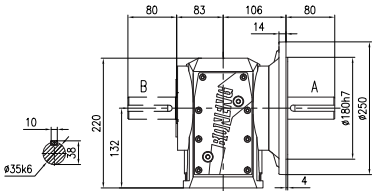
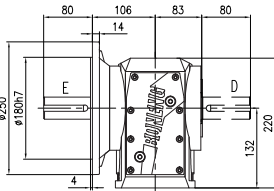
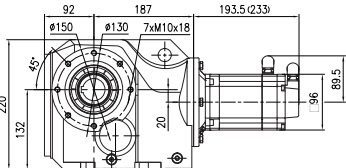
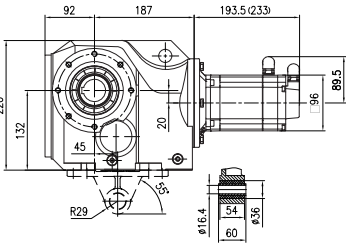
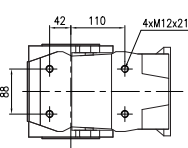
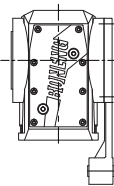
K304AI Hollow shaft with shrink disk
K304TI Hollow shaft with shrink disk
K304TI Hollow shaft with shrink disk



K304AJ Hollow shaft with shrink disk
K304TJ Hollow shaft with shrink disk
K304TJ Hollow shaft with shrink disk



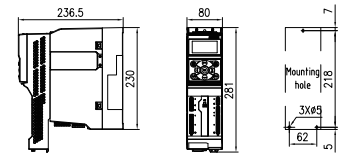
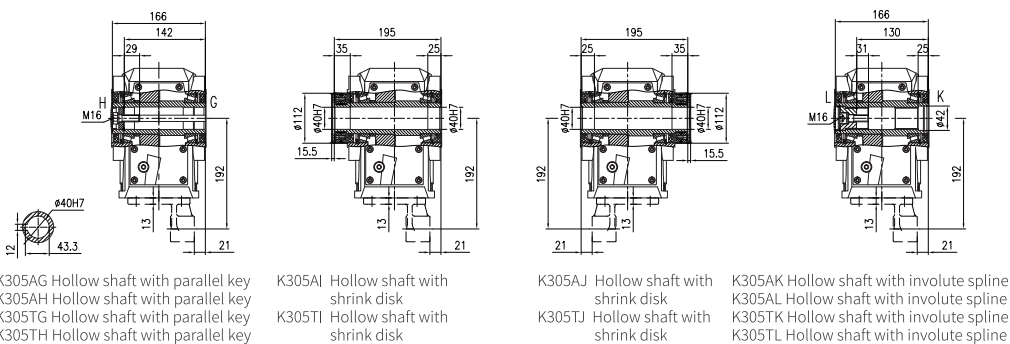
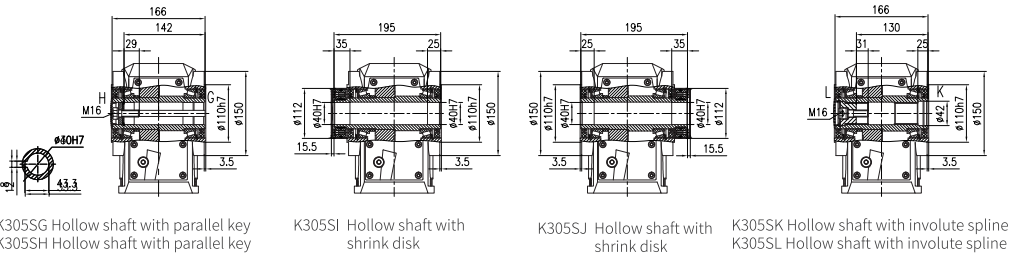
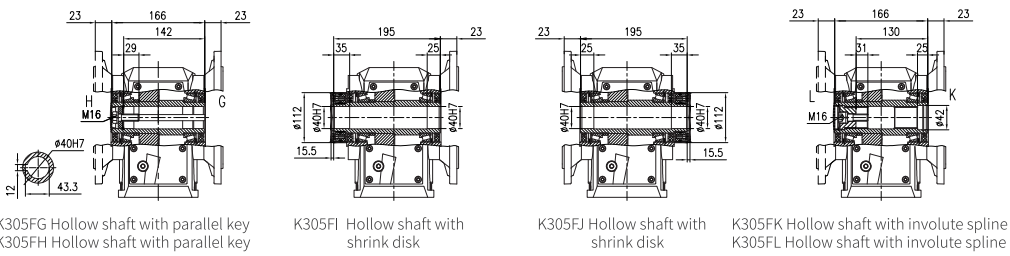
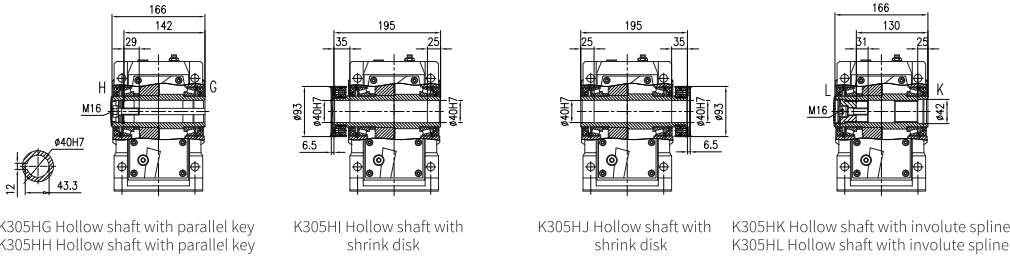
K304AK Hollow shaft with involute spline
K304AL Hollow shaft with involute spline
K304TK Hollow shaft with involute spline
K304TL Hollow shaft with involute spline

Mounting Mode	K305-MX048S1E30FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="332 581 568 603">Horizontal foot-mounted H</p>	 <p data-bbox="959 581 1263 650">K305HA Unidirectional output shaft K305HB Unidirectional output shaft K305HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="370 997 521 1019">Flange-mounted F</p>	 <p data-bbox="821 997 1125 1066">K305FA Unidirectional output shaft K305FB Unidirectional output shaft K305FC Bidirectional output shaft</p>	 <p data-bbox="1198 997 1502 1066">K305FD Unidirectional output shaft K305FE Unidirectional output shaft K305FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="344 1424 552 1446">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="305 1904 634 1926">Torque arm-mounted with accessory T</p>	 <p data-bbox="927 1904 1073 1926">Shaft-mounted A</p>	 <p data-bbox="1230 1860 1463 1970">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

Note: Figures with parentheses are shown for length of servo gearmotor with brake

K305-MX048S1E30FS0 Dimensions (mm)

Corresponding Servo Drive Dimensions



Control module: AX-CM55-PA-PE(ProfiNet)
 or AX-CM55-EA-PE(EtherCAT)
 Power module: AX-PM26-B3B15-N(without filter)
 or AX-PM26-B3B15-F(with filter)
 Operation panel: A1-OP25

Servo Gearmotor: 2.05kW 9.8Nm 4.6A-2000r/min

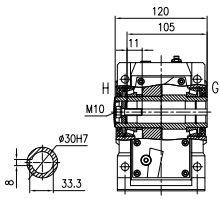
Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T2 (N.m)	Code	i_N	i_{ex}	i_z	T_{2N}	$J \cdot 10^{-4}$ (kg. m ²)	Φ (°)	f
506	39	B40	4	3.95	585/148	150	3	20	3.85
448	44	B45	4.5	4.46	156/35	150	2.4	20	3.41
394	50	B50	5	5.08	325/64	150	1.9	20	3
348	56	B56	5.6	5.74	689/120	160	1.6	19	2.86
312	63	B63	6.3	6.42	7605/1184	180	1.8	17	2.86
276	71	B71	7.1	7.24	507/70	180	1.5	16	2.54
242	81	B80	8	8.25	65/8	180	1.2	16	2.22
214	91	B90	9	9.33	8957/960	180	0.98	16	1.98
189	104	C10	10	10.6	169/16	180	0.79	16	1.73
175	112	C11	11.2	11.4	91/8	180	0.71	16	1.61
157	124	C13	12.5	12.7	63765/5032	180	1.4	10	1.45
200	98	C10	10	9.98	639/64	340	1.7	16	3.47
182	108	C11	11.2	11	1207/110	360	1.5	16	3.33
161	122	C13	12.5	12.4	1633/132	380	1.2	16	3.11
148	132	C14	14	13.5	9900/731	400	3	10	3.03
132	149	C16	16	15.2	3360/221	420	2.5	10	2.82
116	169	C18	18	17.2	10800/629	420	2.1	10	2.49
105	187	C20	20	19.1	324/17	450	1.7	10	2.41
91.7	214	C22	22.4	21.8	1485/68	450	1.4	10	2.1
83.3	235	C25	25	24	24/1	450	1.2	10	1.91
73.8	266	C28	28	27.1	460/17	450	1	9	1.69
63.5	309	C32	31.5	31.5	19800/629	450	2.0	8	1.46
67.8	289	C28	28	29.5	172425/5848	680	2.1	8	2.35
60.4	324	C32	31.5	33.1	7315/221	680	1.7	8	2.1
53.5	367	C36	35.5	37.4	47025/1258	680	1.5	8	1.85
48.2	407	C40	40	41.5	5643/136	680	1.2	8	1.67
42.1	466	C45	45	47.5	103455/2176	680	1.1	8	1.46
55.9	351	C36	35.5	35.8	180147/5032	950	3.1	8	2.71
52.4	374	C40	40	38.2	62315/1632	950	2.9	8	2.54
44	446	C45	45	45.5	80443/1768	950	2.2	8	2.13
39.4	497	C50	50	50.7	254925/5032	950	1.9	8	1.91
35.9	546	C56	56	55.7	132561/2380	950	1.6	8	1.74
31.6	620	C63	63	63.3	275319/4352	950	1.4	8	1.53
35.4	554	C56	56	56.5	7285/129	1750	4.9	7	3.16
31.8	616	C63	63	62.9	147157/2340	1750	4.3	7	2.84
29	675	C71	71	68.9	10199/148	1750	3.8	7	2.59
26.7	734	C80	80	74.9	13113/175	1750	3.3	7	2.38
23.8	825	C90	90	84.2	53909/640	1750	3	7	2.12
21.7	905	D10	100	92.3	27683/300	1750	2.6	7	1.93
18.5	1061	D11	112	108.3	42253/390	1750	2	7	1.65

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

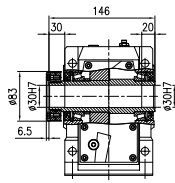
Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K303□□-B40-D□□□-MX063M1E20FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3B40-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A15-□□□ 18:Without brake 16:With brake Power Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-B12-K-D13
K303□□-B45-D□□□-MX063M1E20FS0						
K303□□-B50-D□□□-MX063M1E20FS0						
K303□□-B56-D□□□-MX063M1E20FS0						
K303□□-B63-D□□□-MX063M1E20FS0						
K303□□-B71-D□□□-MX063M1E20FS0						
K303□□-B80-D□□□-MX063M1E20FS0						
K303□□-B90-D□□□-MX063M1E20FS0						
K303□□-C10-D□□□-MX063M1E20FS0						
K303□□-C11-D□□□-MX063M1E20FS0						
K303□□-C13-D□□□-MX063M1E20FS0						
K304□□-C10-D□□□-MX063M1E20FS0						
K304□□-C11-D□□□-MX063M1E20FS0						
K304□□-C13-D□□□-MX063M1E20FS0						
K304□□-C14-D□□□-MX063M1E20FS0						
K304□□-C16-D□□□-MX063M1E20FS0						
K304□□-C18-D□□□-MX063M1E20FS0						
K304□□-C20-D□□□-MX063M1E20FS0						
K304□□-C22-D□□□-MX063M1E20FS0						
K304□□-C25-D□□□-MX063M1E20FS0						
K304□□-C28-D□□□-MX063M1E20FS0						
K304□□-C32-D□□□-MX063M1E20FS0						
K305□□-C28-D□□□-MX063M1E20FS0						
K305□□-C32-D□□□-MX063M1E20FS0						
K305□□-C36-D□□□-MX063M1E20FS0						
K305□□-C40-D□□□-MX063M1E20FS0						
K305□□-C45-D□□□-MX063M1E20FS0						
K306□□-C36-D□□□-MX063M1E20FS0						
K306□□-C40-D□□□-MX063M1E20FS0						
K306□□-C45-D□□□-MX063M1E20FS0						
K306□□-C50-D□□□-MX063M1E20FS0						
K306□□-C56-D□□□-MX063M1E20FS0						
K306□□-C63-D□□□-MX063M1E20FS0						
K307□□-C56-D□□□-MX063M1E20FS0						
K307□□-C63-D□□□-MX063M1E20FS0						
K307□□-C71-D□□□-MX063M1E20FS0						
K307□□-C80-D□□□-MX063M1E20FS0						
K307□□-C90-D□□□-MX063M1E20FS0						
K307□□-D10-D□□□-MX063M1E20FS0						
K307□□-D11-D□□□-MX063M1E20FS0						

K303-MX063M1E20FS0 Dimensions (mm)

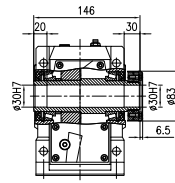
Corresponding Servo Drive Dimensions



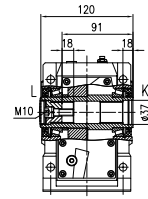
K303HG Hollow shaft with parallel key
K303HH Hollow shaft with parallel key



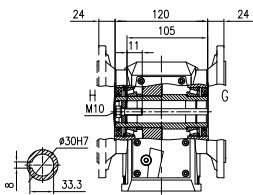
K303HI Hollow shaft with shrink disk



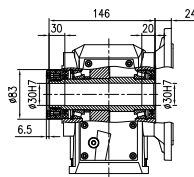
K303HJ Hollow shaft with shrink disk



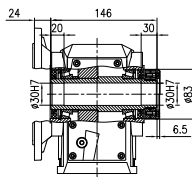
K303HK Hollow shaft with involute spline
K303HL Hollow shaft with involute spline



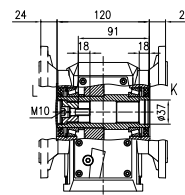
K303FG Hollow shaft with parallel key
K303FH Hollow shaft with parallel key



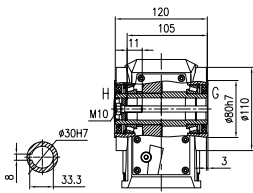
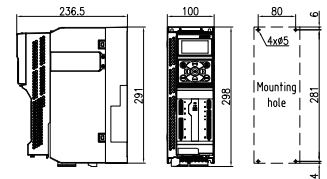
K303FI Hollow shaft with shrink disk



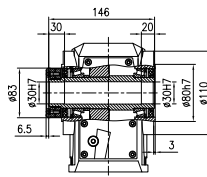
K303FJ Hollow shaft with shrink disk



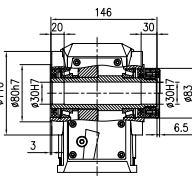
K303FK Hollow shaft with involute spline
K303FL Hollow shaft with involute spline



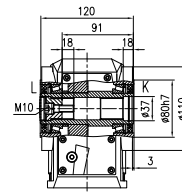
K303SG Hollow shaft with parallel key
K303SH Hollow shaft with parallel key



K303SI Hollow shaft with shrink disk

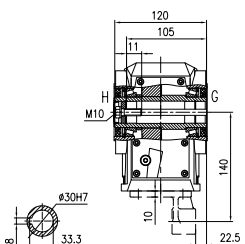


K303SJ Hollow shaft with shrink disk

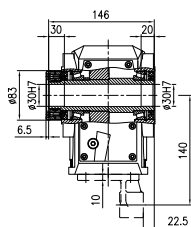


K303SK Hollow shaft with involute spline
K303SL Hollow shaft with involute spline

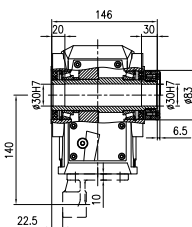
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B40-N(without filter)
or AX-PM26-B3B40-F(with filter)
Operation panel: A1-OP25



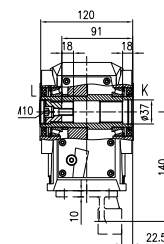
K303AG Hollow shaft with parallel key
K303AH Hollow shaft with parallel key
K303TG Hollow shaft with parallel key
K303TH Hollow shaft with parallel key



K303AI Hollow shaft with shrink disk
K303AJ Hollow shaft with shrink disk
K303TI Hollow shaft with shrink disk



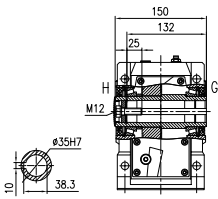
K303AJ Hollow shaft with shrink disk
K303AJ Hollow shaft with shrink disk
K303TJ Hollow shaft with shrink disk



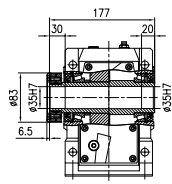
K303AK Hollow shaft with involute spline
K303AL Hollow shaft with involute spline
K303TK Hollow shaft with involute spline
K303TL Hollow shaft with involute spline

K304-MX063M1E20FS0 Dimensions (mm)

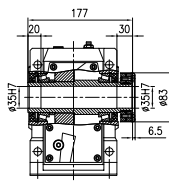
Corresponding Servo Drive Dimensions



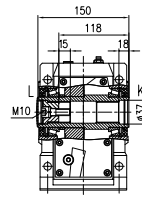
K304HG Hollow shaft with parallel key
K304HH Hollow shaft with parallel key



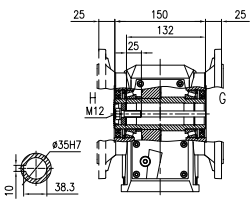
K304HI Hollow shaft with shrink disk



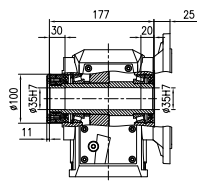
K304HJ Hollow shaft with shrink disk



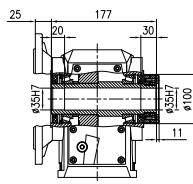
K304HK Hollow shaft with involute spline
K304HL Hollow shaft with involute spline



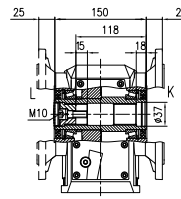
K304FG Hollow shaft with parallel key
K304FH Hollow shaft with parallel key



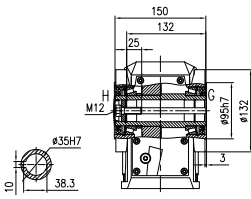
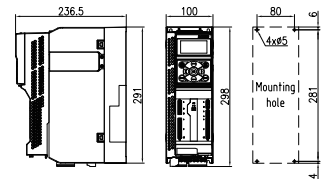
K304FI Hollow shaft with shrink disk



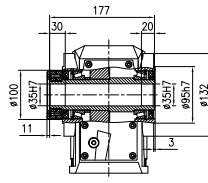
K304FJ Hollow shaft with shrink disk



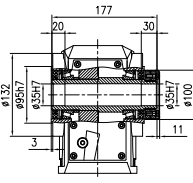
K304FK Hollow shaft with involute spline
K304FL Hollow shaft with involute spline



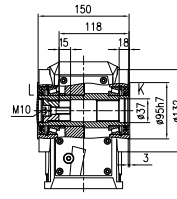
K304SG Hollow shaft with parallel key
K304SH Hollow shaft with parallel key



K304SI Hollow shaft with shrink disk

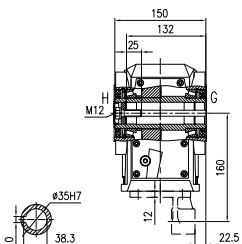


K304SJ Hollow shaft with shrink disk

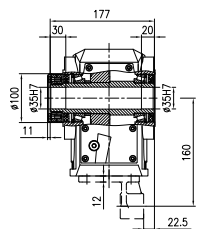


K304SK Hollow shaft with involute spline
K304SL Hollow shaft with involute spline

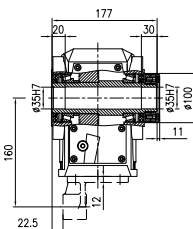
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B40-N(without filter)
or AX-PM26-B3B40-F(with filter)
Operation panel: A1-OP25



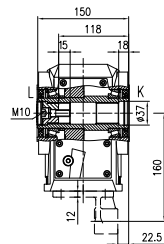
K304AG Hollow shaft with parallel key
K304AH Hollow shaft with parallel key
K304TG Hollow shaft with parallel key
K304TH Hollow shaft with parallel key



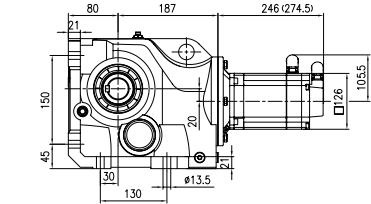
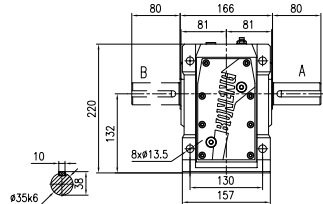
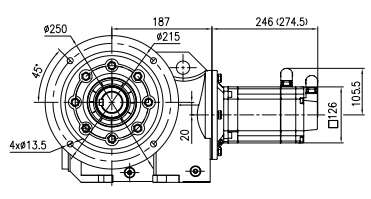
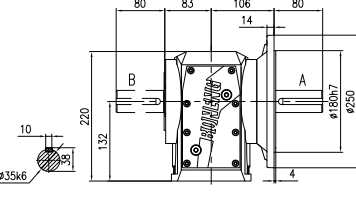
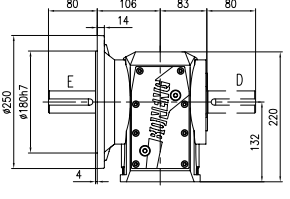
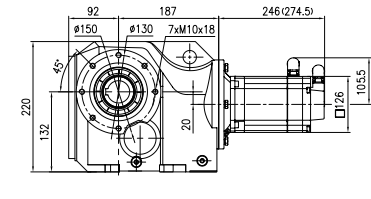
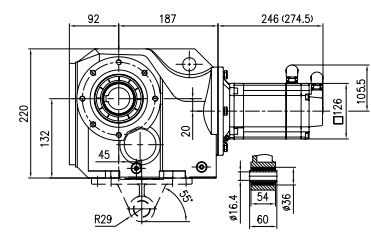
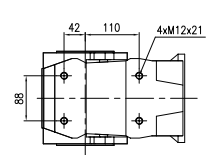
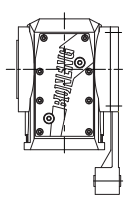
K304AI Hollow shaft with shrink disk
K304TI Hollow shaft with shrink disk



K304AJ Hollow shaft with shrink disk
K304TJ Hollow shaft with shrink disk



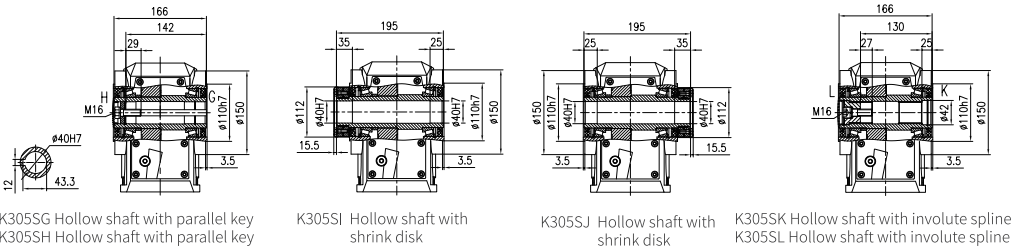
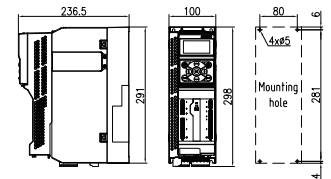
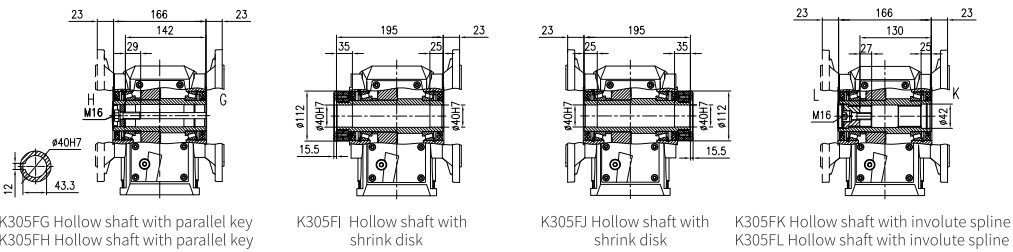
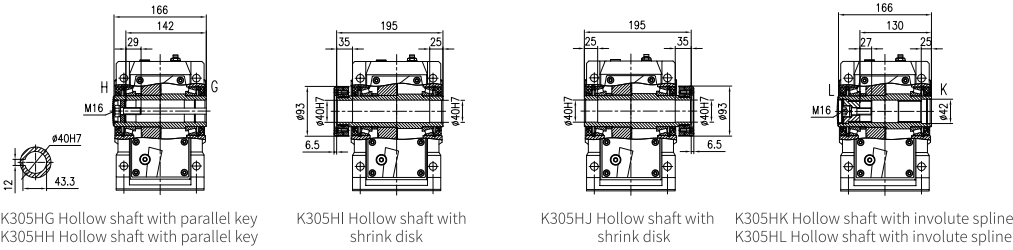
K304AK Hollow shaft with involute spline
K304AL Hollow shaft with involute spline
K304TK Hollow shaft with involute spline
K304TL Hollow shaft with involute spline

Mounting Mode	K305-MX063M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p>Horizontal foot-mounted H</p>	 <p>K305HA Unidirectional output shaft K305HB Unidirectional output shaft K305HC Bidirectional output shaft</p>	
Flange-mounted	 <p>Flange-mounted F</p>	 <p>K305FA Unidirectional output shaft K305FB Unidirectional output shaft K305FC Bidirectional output shaft</p>	 <p>K305FD Unidirectional output shaft K305FE Unidirectional output shaft K305FF Bidirectional output shaft</p>
Short flange-mounted	 <p>Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p>Torque arm-mounted with accessory T</p>	 <p>Shaft-mounted A</p>	 <p>Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

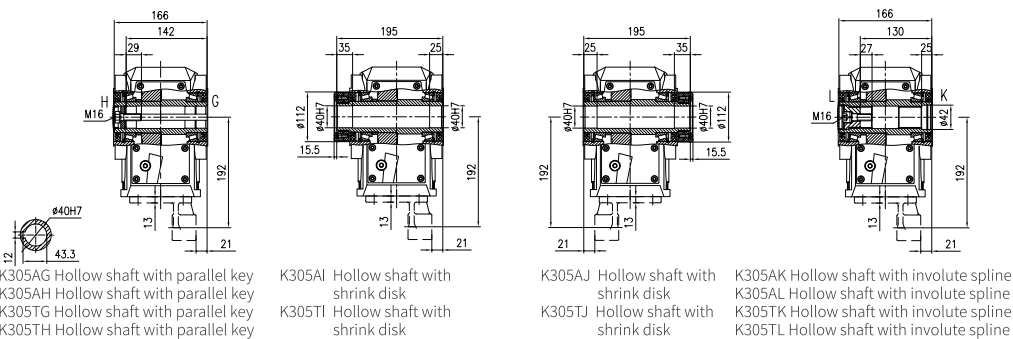
Note: Figures with parentheses are shown for length of servo gearmotor with brake

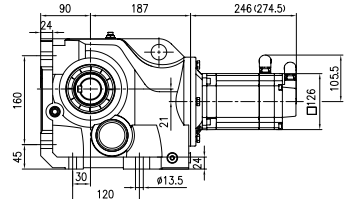
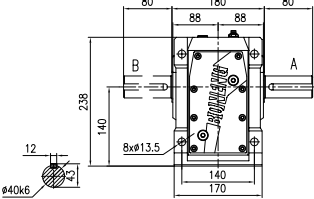
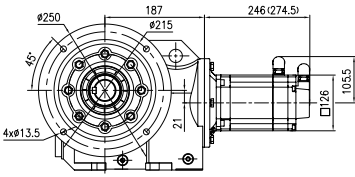
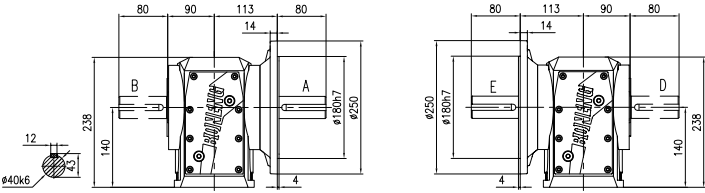
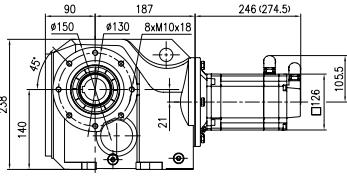
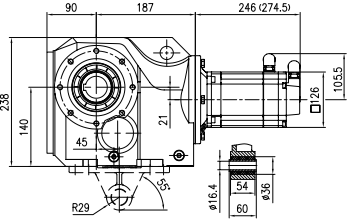
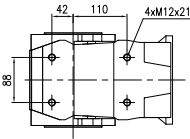
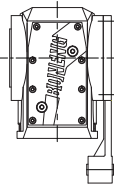
K305-MX063M1E20FS0 Dimensions (mm)

Corresponding Servo Drive Dimensions



Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B40-N(without filter)
or AX-PM26-B3B40-F(with filter)
Operation panel: A1-OP25

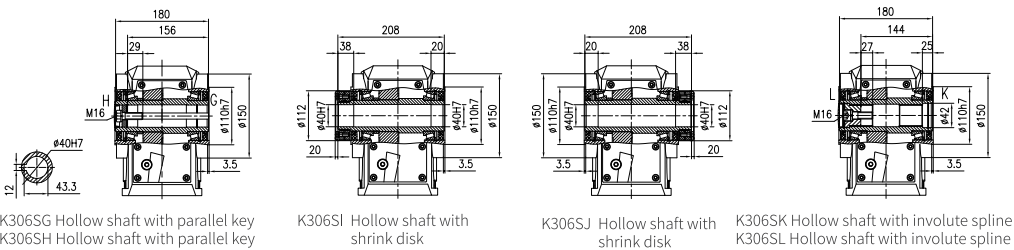
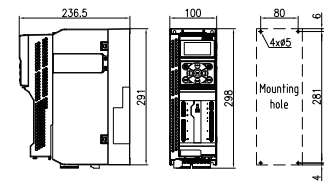
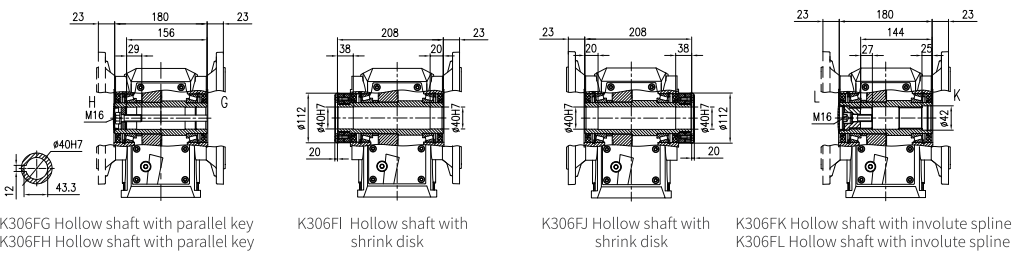
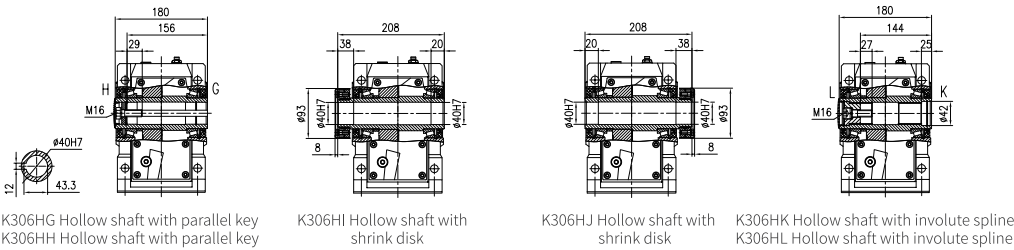


Mounting Mode	K306-MX063M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="332 581 568 603">Horizontal foot-mounted H</p>	 <p data-bbox="961 581 1263 650">K306HA Unidirectional output shaft K306HB Unidirectional output shaft K306HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="370 997 527 1019">Flange-mounted F</p>	 <p data-bbox="824 997 1127 1066">K306FA Unidirectional output shaft K306FB Unidirectional output shaft K306FC Bidirectional output shaft</p> <p data-bbox="1203 997 1505 1066">K306FD Unidirectional output shaft K306FE Unidirectional output shaft K306FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="345 1424 553 1446">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="305 1904 634 1926">Torque arm-mounted with accessory T</p>	 <p data-bbox="927 1904 1073 1926">Shaft-mounted A</p>  <p data-bbox="1230 1860 1463 1970">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	
Torque arm-mounted with accessory			

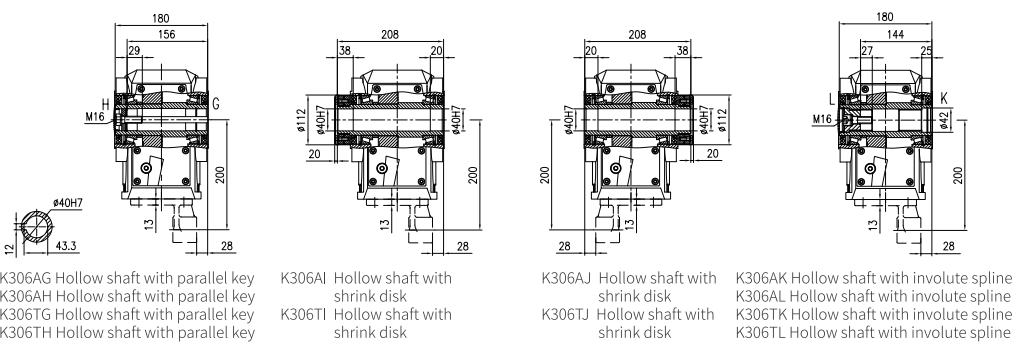
Note: Figures with parentheses are shown for length of servo gearmotor with brake

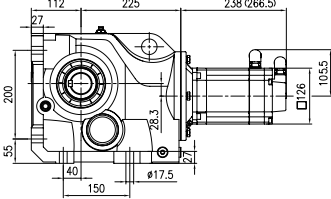
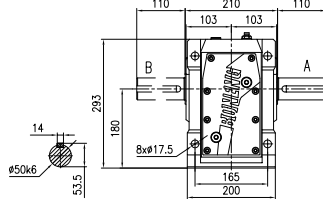
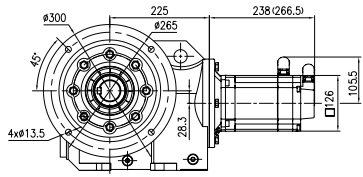
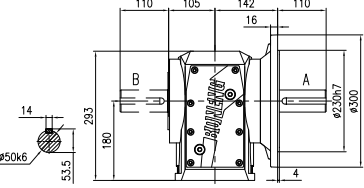
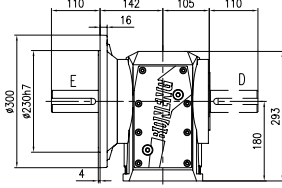
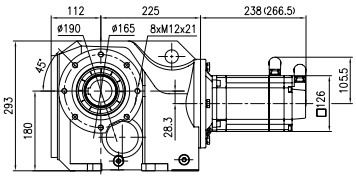
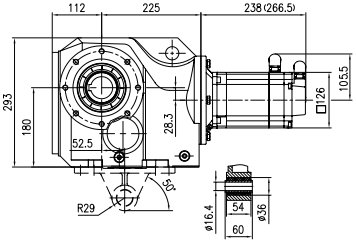
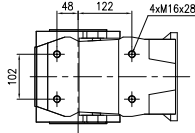
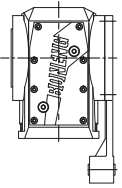
K306-MX063M1E20FS0 Dimensions (mm)

Corresponding Servo Drive Dimensions



Control module: AX-CM55-PA-PE(ProfiNet)
 or AX-CM55-EA-PE(EtherCAT)
 Power module: AX-PM26-B3B40-N(without filter)
 or AX-PM26-B3B40-F(with filter)
 Operation panel: A1-OP25

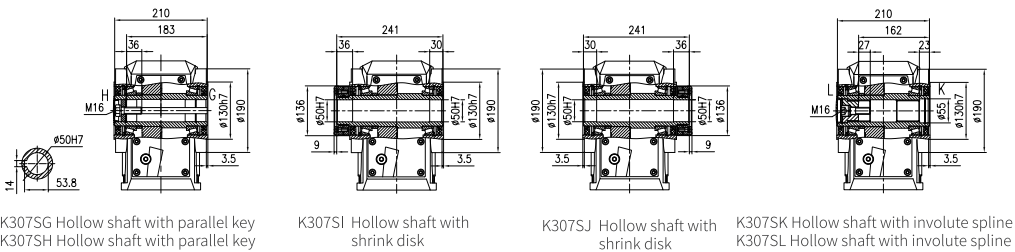
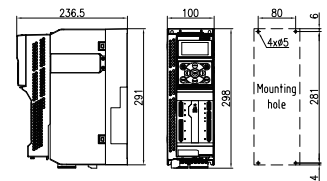
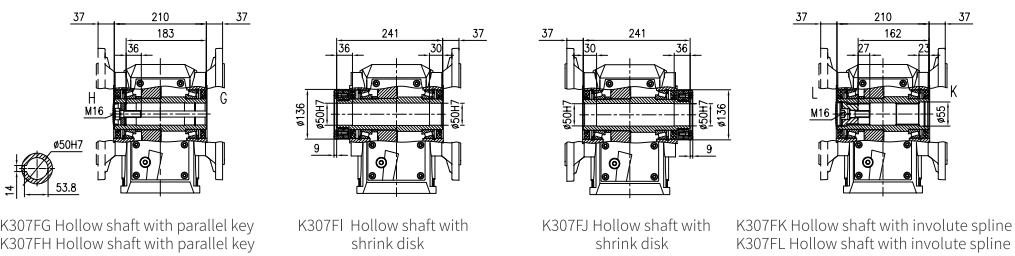
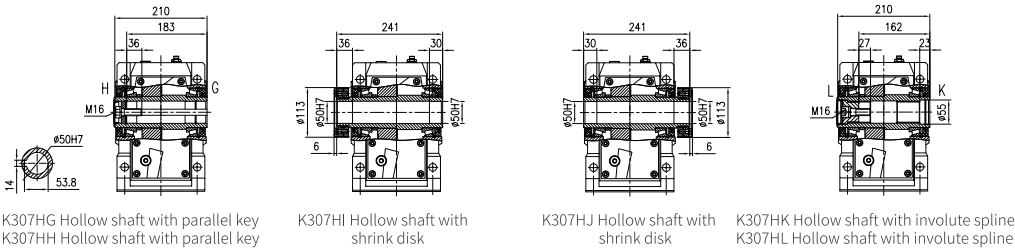


Mounting Mode	K307-MX063M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="332 586 568 608">Horizontal foot-mounted H</p>	 <p data-bbox="958 586 1266 652">K307HA Unidirectional output shaft K307HB Unidirectional output shaft K307HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="373 995 527 1017">Flange-mounted F</p>	 <p data-bbox="820 995 1128 1061">K307FA Unidirectional output shaft K307FB Unidirectional output shaft K307FC Bidirectional output shaft</p>	 <p data-bbox="1201 995 1510 1061">K307FD Unidirectional output shaft K307FE Unidirectional output shaft K307FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="349 1426 560 1448">Short flange-mounted S</p>		
Shaft-mounted ----- Torque arm-mounted with accessory	 <p data-bbox="300 1902 641 1924">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1079 1924">Shaft-mounted A</p>	 <p data-bbox="1226 1858 1469 1968">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

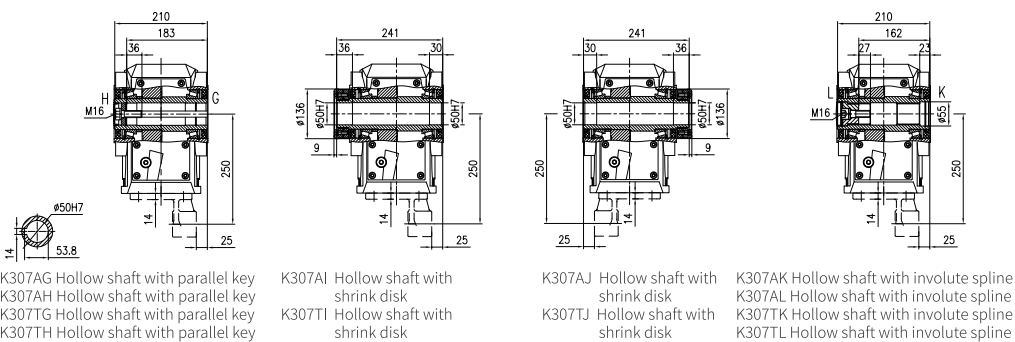
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K307-MX063M1E20FS0 Dimensions (mm)

Corresponding Servo Drive Dimensions



Control module: AX-CM55-PA-PE(ProfiNet)
 or AX-CM55-EA-PE(EtherCAT)
 Power module: AX-PM26-B3B40-N(without filter)
 or AX-PM26-B3B40-F(with filter)
 Operation panel: A1-OP25

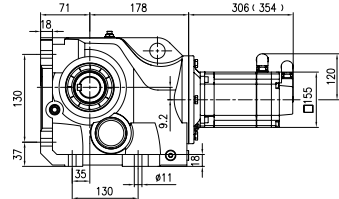
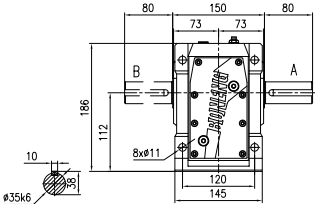
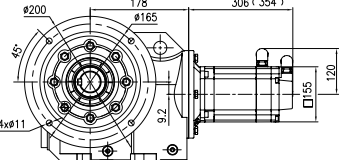
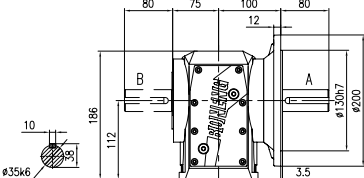
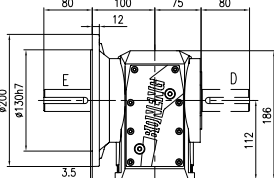
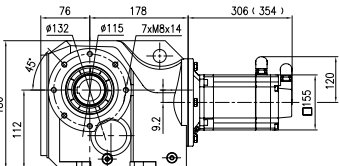
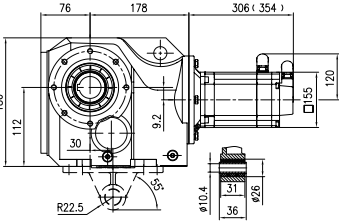
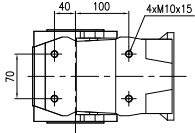
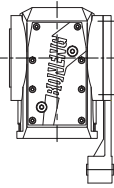


Servo Gearmotor: 3.98kW 19Nm 8.1A-2000r/min

Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T2 (N.m)	Code	i_N	i_{ex}	i_z	T_{2N}	$J \cdot 10^{-4}$ (kg.m ²)	Φ (°)	f
484	78	B40	4	4.13	355/86	200	5.4	19	2.56
432	88	B45	4.5	4.63	1988/429	230	4.3	19	2.61
382	99	B50	5	5.23	2130/407	250	3.5	18	2.53
344	110	B56	5.6	5.81	639/110	260	2.9	18	2.36
323	118	B63	6.3	6.19	1065/172	280	3.8	17	2.37
288	132	B71	7.1	6.95	994/143	280	3.1	17	2.12
255	149	B80	8	7.85	3195/407	300	2.5	16	2.01
230	165	B90	9	8.71	1917/220	310	2.1	16	1.88
200	190	C10	10	9.98	639/64	340	1.7	16	1.79
182	209	C11	11.2	11	1207/110	360	1.5	16	1.72
161	236	C13	12.5	12.4	1633/132	380	1.2	16	1.61
148	257	C14	14	13.5	9900/731	400	3	10	1.56
132	289	C16	16	15.2	3360/221	420	2.5	10	1.45
192	198	C10	10	10.4	1088/105	450	2.2	16	2.27
187	203	C11	11.2	10.7	15675/1462	460	4.1	11	2.27
167	228	C13	12.5	12	2660/221	500	3.3	11	2.19
147	258	C14	14	13.6	8550/629	550	2.7	11	2.13
132	287	C16	16	15.1	513/34	600	2.3	11	2.09
116	329	C18	18	17.3	9405/544	620	1.8	11	1.88
105	361	C20	20	19	19/1	650	1.5	10	1.8
93.5	407	C22	22.4	21.4	2185/102	680	1.3	10	1.67
87.3	435	C25	25	22.9	20235/884	680	1.1	10	1.56
104.2	365	C20	20	19.2	16995/884	850	3.6	9	2.33
88.1	431	C22	22.4	22.7	1545/68	950	3.8	8	2.20
76.9	494	C25	25	26.0	16377/629	950	3.2	8	1.92
71.9	528	C28	28	27.8	5665/204	950	2.9	8	1.80
64.1	593	C32	31.5	31.2	16995/544	950	3.8	8	1.6
64.5	589	C32	31.5	31	33511/1080	1750	10.6	8	2.97
56.7	671	C36	35.5	35.3	5828/165	1750	8.8	7	2.61
51	745	C40	40	39.2	235/6	1750	7.7	7	2.35
44.5	853	C45	45	44.9	53909/1200	1750	6.6	7	2.05
39.6	960	C50	50	50.5	112189/2220	1750	5.7	7	1.82
35.4	1074	C56	56	56.5	7285/129	1750	4.9	7	1.63
31.8	1195	C63	63	62.9	147157/2340	1750	4.3	7	1.46
39	975	C50	50	51.3	6565/128	3000	18	7	3.08
34.7	1096	C56	56	57.7	20301/352	3000	16	7	2.74
31.6	1201	C63	63	63.2	62721/992	3000	14	7	2.5
27.4	1387	C71	71	73	8181/112	3000	12	6	2.16
25.7	1480	C80	80	77.9	77265/992	3000	11	6	2.03
22.2	1710	C90	90	90	5757/64	3000	8.9	6	1.75
19.6	1944	D10	100	102.3	8181/80	3000	7.7	6	1.54
23.1	1642	C90	90	86.4	13386/155	5000	37	6	3.05
20.3	1873	D10	100	98.6	690/7	5000	32	6	2.67
19	1997	D11	112	105.1	16284/155	5000	29	6	2.5
16.6	2295	D13	125	120.8	483/4	4300	24	6	1.87
14.7	2580	D14	140	135.8	16974/125	4300	21	6	1.67
13.3	2850	D16	160	150	150/1	4300	18	6	1.51

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

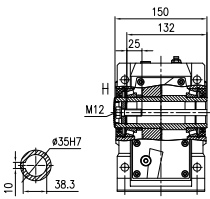
Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K304□□-B40-D□□□-MX080M1E20FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3B75-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A25-□□□ 18:Without brake 16:With brake Power Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-B25-K-C75
K304□□-B45-D□□□-MX080M1E20FS0						
K304□□-B50-D□□□-MX080M1E20FS0						
K304□□-B56-D□□□-MX080M1E20FS0						
K304□□-B63-D□□□-MX080M1E20FS0						
K304□□-B71-D□□□-MX080M1E20FS0						
K304□□-B80-D□□□-MX080M1E20FS0						
K304□□-B90-D□□□-MX080M1E20FS0						
K304□□-C10-D□□□-MX080M1E20FS0						
K304□□-C11-D□□□-MX080M1E20FS0						
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K309□□-D16-D□□□-MX080M1E20FS0						

Mounting Mode	K304-MX080M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="337 581 568 603">Horizontal foot-mounted H</p>	 <p data-bbox="958 581 1258 648">K304HA Unidirectional output shaft K304HB Unidirectional output shaft K304HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="370 997 527 1019">Flange-mounted F</p>	 <p data-bbox="820 997 1120 1063">K304FA Unidirectional output shaft K304FB Unidirectional output shaft K304FC Bidirectional output shaft</p>  <p data-bbox="1201 997 1502 1063">K304FD Unidirectional output shaft K304FE Unidirectional output shaft K304FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="345 1428 552 1451">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="305 1904 633 1926">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1904 1071 1926">Shaft-mounted A</p>  <p data-bbox="1226 1860 1461 1970">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

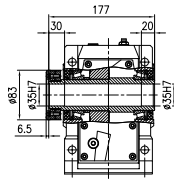
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K304-MX080M1E20FS0 Dimensions (mm)

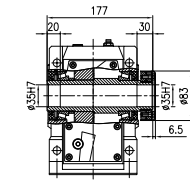
Corresponding Servo Drive Dimensions



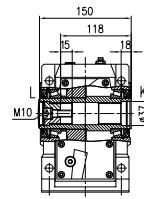
K304HG Hollow shaft with parallel key
K304HH Hollow shaft with parallel key



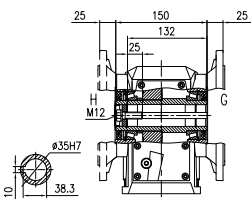
K304HI Hollow shaft with shrink disk



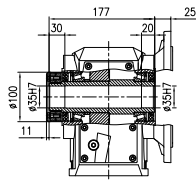
K304HJ Hollow shaft with shrink disk



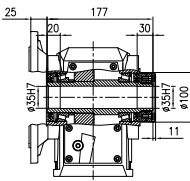
K304HK Hollow shaft with involute spline
K304HL Hollow shaft with involute spline



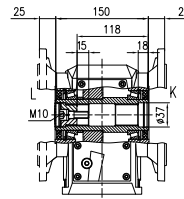
K304FG Hollow shaft with parallel key
K304FH Hollow shaft with parallel key



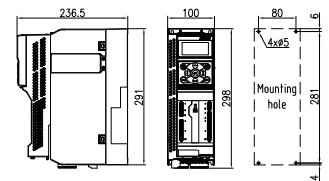
K304FI Hollow shaft with shrink disk



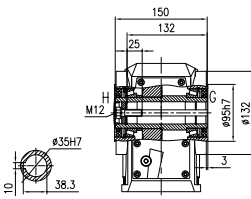
K304FJ Hollow shaft with shrink disk



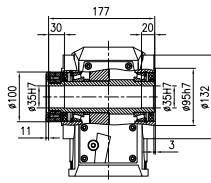
K304FK Hollow shaft with involute spline
K304FL Hollow shaft with involute spline



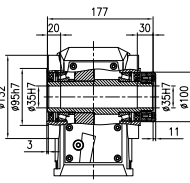
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B75-N(without filter)
or AX-PM26-B3B75-F(with filter)
Operation panel: A1-OP25



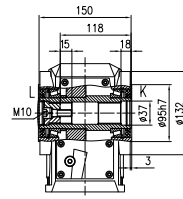
K304SG Hollow shaft with parallel key
K304SH Hollow shaft with parallel key



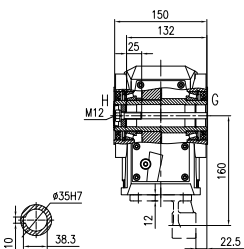
K304SI Hollow shaft with shrink disk



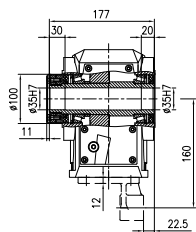
K304SJ Hollow shaft with shrink disk



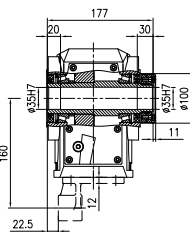
K304SK Hollow shaft with involute spline
K304SL Hollow shaft with involute spline



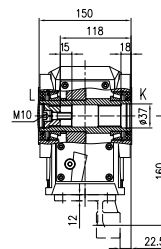
K304AG Hollow shaft with parallel key
K304AH Hollow shaft with parallel key
K304TG Hollow shaft with parallel key
K304TH Hollow shaft with parallel key



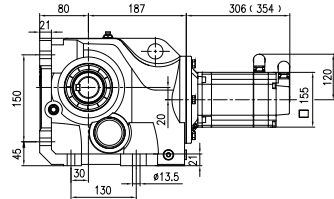
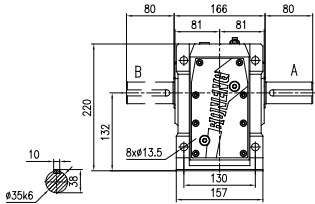
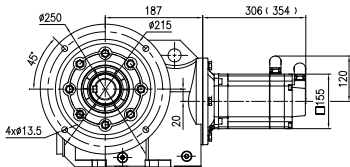
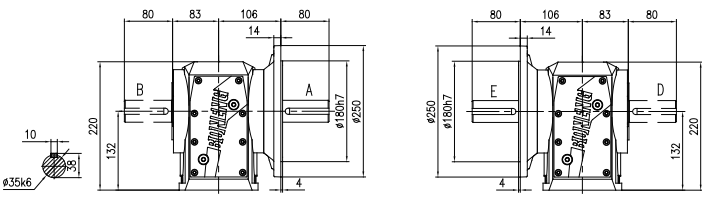
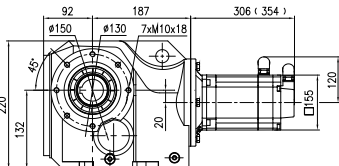
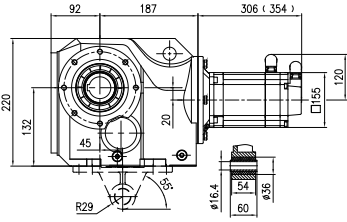
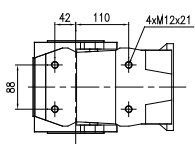
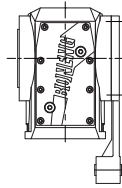
K304AI Hollow shaft with shrink disk
K304TI Hollow shaft with shrink disk



K304AJ Hollow shaft with shrink disk
K304TJ Hollow shaft with shrink disk



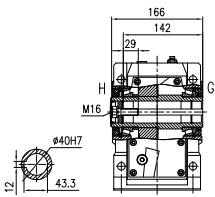
K304AK Hollow shaft with involute spline
K304AL Hollow shaft with involute spline
K304TK Hollow shaft with involute spline
K304TL Hollow shaft with involute spline

Mounting Mode	K305-MX080M1E20FS0 Dimensions (mm)	
Horizontal foot-mounted Mode	 <p data-bbox="332 581 568 603">Horizontal foot-mounted H</p>	 <p data-bbox="958 581 1258 648">K305HA Unidirectional output shaft K305HB Unidirectional output shaft K305HC Bidirectional output shaft</p>
Flange-mounted	 <p data-bbox="370 997 527 1019">Flange-mounted F</p>	 <p data-bbox="820 997 1120 1063">K305FA Unidirectional output shaft K305FB Unidirectional output shaft K305FC Bidirectional output shaft</p> <p data-bbox="1201 997 1502 1063">K305FD Unidirectional output shaft K305FE Unidirectional output shaft K305FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="349 1426 552 1448">Short flange-mounted S</p>	
Shaft-mounted Torque arm-mounted with accessory	 <p data-bbox="300 1902 633 1924">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1071 1924">Shaft-mounted A</p>  <p data-bbox="1226 1858 1461 1968">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

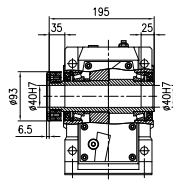
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K305-MX080M1E20FS0 Dimensions (mm)

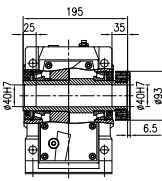
Corresponding Servo Drive Dimensions



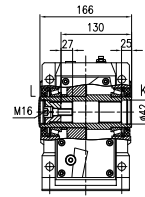
K305HG Hollow shaft with parallel key
K305HH Hollow shaft with parallel key



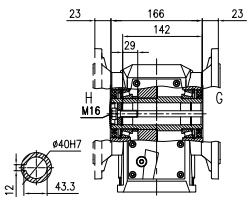
K305HI Hollow shaft with shrink disk



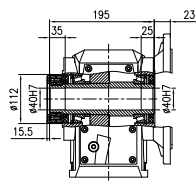
K305HJ Hollow shaft with shrink disk



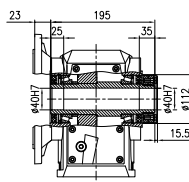
K305HK Hollow shaft with involute spline
K305HL Hollow shaft with involute spline



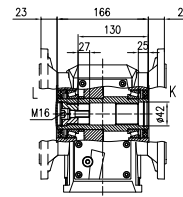
K305FG Hollow shaft with parallel key
K305FH Hollow shaft with parallel key



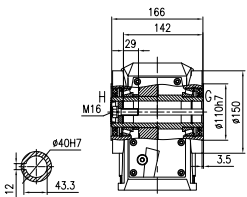
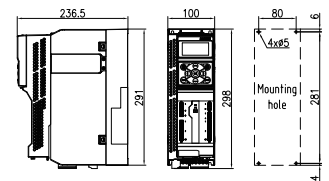
K305FI Hollow shaft with shrink disk



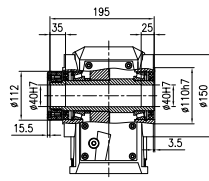
K305FJ Hollow shaft with shrink disk



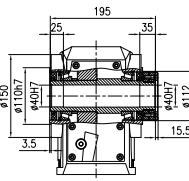
K305FK Hollow shaft with involute spline
K305FL Hollow shaft with involute spline



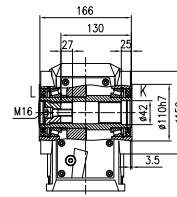
K305SG Hollow shaft with parallel key
K305SH Hollow shaft with parallel key



K305SI Hollow shaft with shrink disk

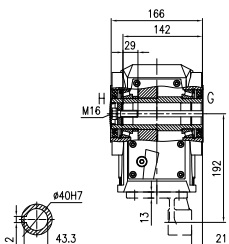


K305SJ Hollow shaft with shrink disk

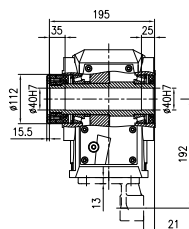


K305SK Hollow shaft with involute spline
K305SL Hollow shaft with involute spline

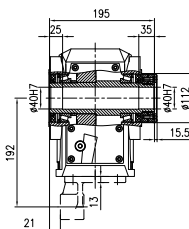
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B75-N(without filter)
or AX-PM26-B3B75-F(with filter)
Operation panel: A1-OP25



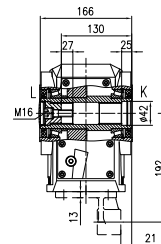
K305AG Hollow shaft with parallel key
K305AH Hollow shaft with parallel key
K305TG Hollow shaft with parallel key
K305TH Hollow shaft with parallel key



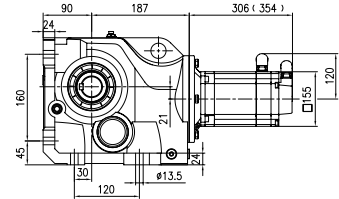
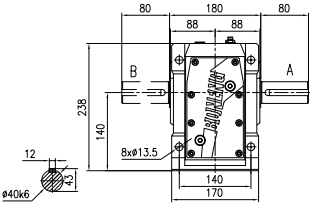
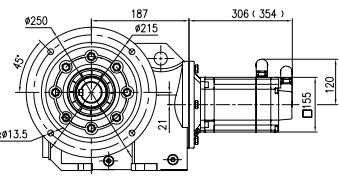
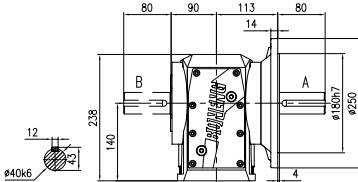
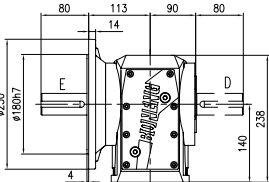
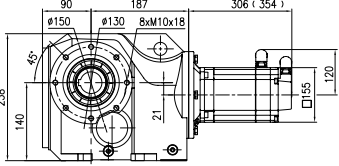
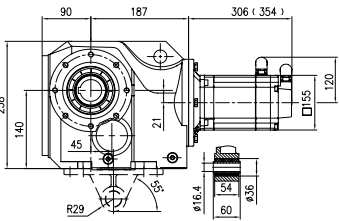
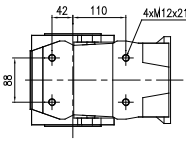
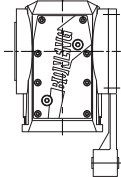
K305AI Hollow shaft with shrink disk
K305TI Hollow shaft with shrink disk



K305AJ Hollow shaft with shrink disk
K305TJ Hollow shaft with shrink disk



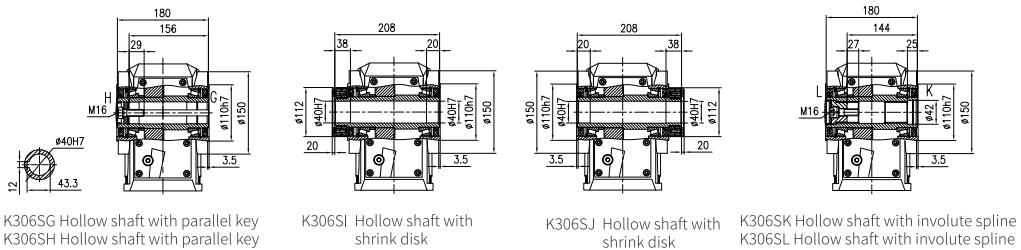
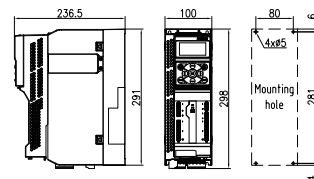
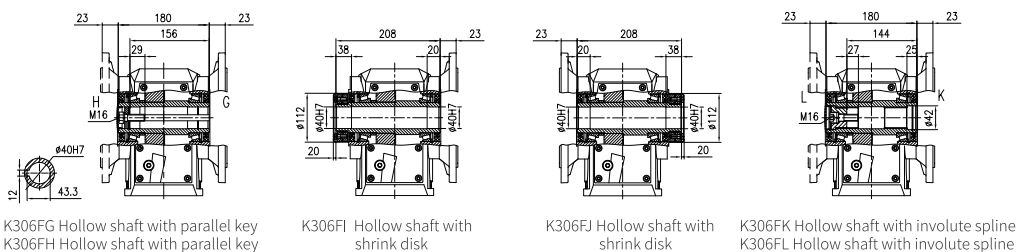
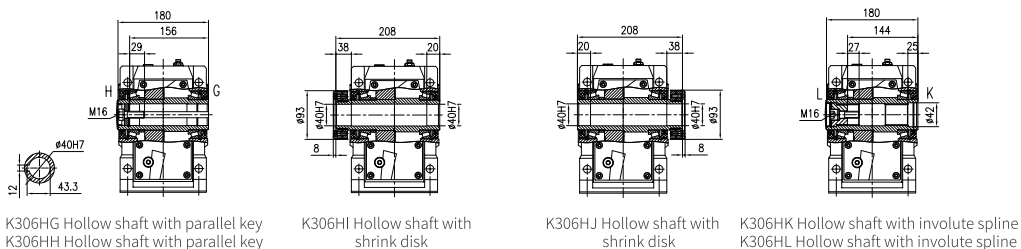
K305AK Hollow shaft with involute spline
K305AL Hollow shaft with involute spline
K305TK Hollow shaft with involute spline
K305TL Hollow shaft with involute spline

Mounting Mode	K306-MX080M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="337 581 568 603">Horizontal foot-mounted H</p>	 <p data-bbox="963 581 1263 648">K306HA Unidirectional output shaft K306HB Unidirectional output shaft K306HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="378 1002 527 1024">Flange-mounted F</p>	 <p data-bbox="824 1002 1125 1068">K306FA Unidirectional output shaft K306FB Unidirectional output shaft K306FC Bidirectional output shaft</p>	 <p data-bbox="1206 1002 1507 1068">K306FD Unidirectional output shaft K306FE Unidirectional output shaft K306FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="345 1422 557 1444">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="305 1908 638 1931">Torque arm-mounted with accessory T</p>	 <p data-bbox="930 1908 1076 1931">Shaft-mounted A</p>	 <p data-bbox="1230 1864 1466 1975">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

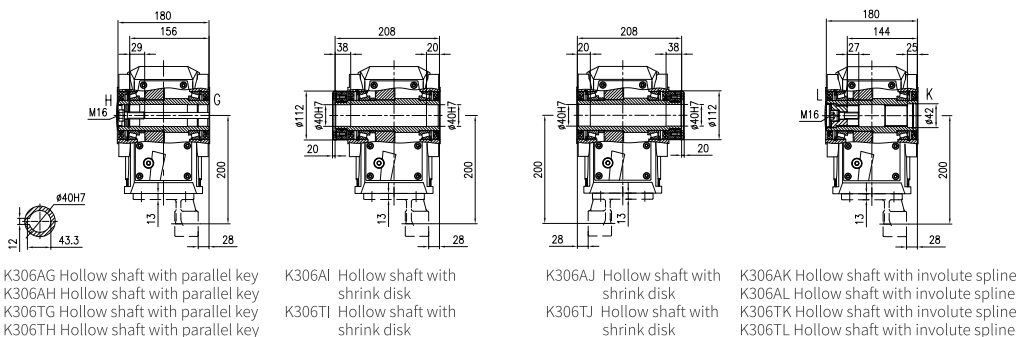
Note: Figures with parentheses are shown for length of servo gearmotor with brake

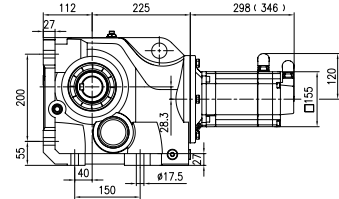
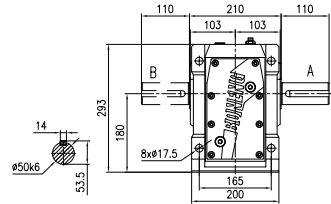
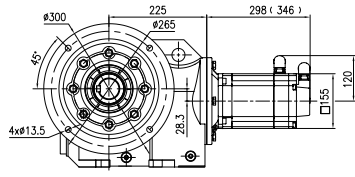
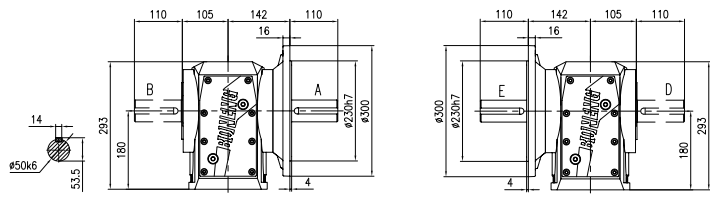
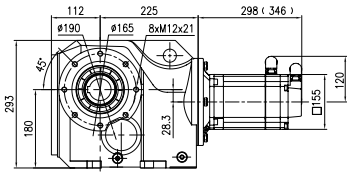
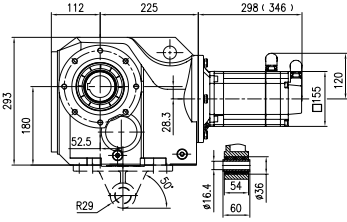
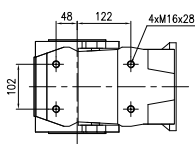
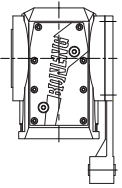
K306-MX080M1E20FS0 Dimensions (mm)

Corresponding Servo Drive Dimensions



Control module: AX-CM55-PA-PE(ProfiNet)
 or AX-CM55-EA-PE(EtherCAT)
 Power module: AX-PM26-B3B75-N(without filter)
 or AX-PM26-B3B75-F(with filter)
 Operation panel: A1-OP25

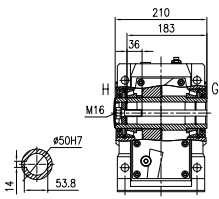


Mounting Mode	K307-MX080M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="324 581 568 608">Horizontal foot-mounted H</p>	 <p data-bbox="958 581 1266 652">K307HA Unidirectional output shaft K307HB Unidirectional output shaft K307HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="373 995 519 1021">Flange-mounted F</p>	 <p data-bbox="820 995 1128 1066">K307FA Unidirectional output shaft K307FB Unidirectional output shaft K307FC Bidirectional output shaft</p> <p data-bbox="1201 995 1510 1066">K307FD Unidirectional output shaft K307FE Unidirectional output shaft K307FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="349 1426 552 1453">Short flange-mounted S</p>		
Shaft-mounted ----- Torque arm-mounted with accessory	 <p data-bbox="300 1902 641 1928">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1079 1928">Shaft-mounted A</p>  <p data-bbox="1226 1858 1469 1973">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

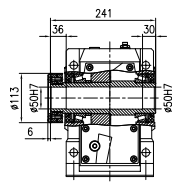
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K307-MX080M1E20FS0 Dimensions (mm)

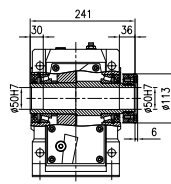
Corresponding Servo Drive Dimensions



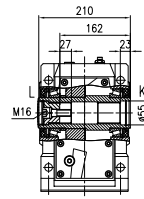
K307HG Hollow shaft with parallel key
K307HH Hollow shaft with parallel key



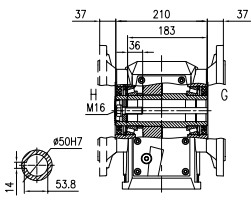
K307HI Hollow shaft with shrink disk



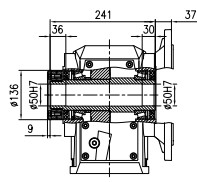
K307HJ Hollow shaft with shrink disk



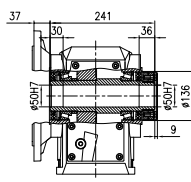
K307HK Hollow shaft with involute spline
K307HL Hollow shaft with involute spline



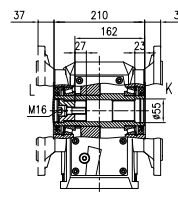
K307FG Hollow shaft with parallel key
K307FH Hollow shaft with parallel key



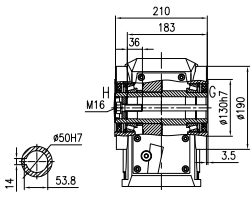
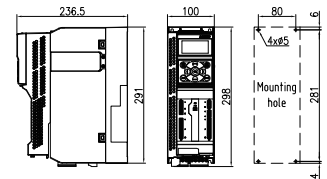
K307FI Hollow shaft with shrink disk



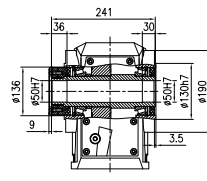
K307FJ Hollow shaft with shrink disk



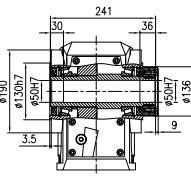
K307FK Hollow shaft with involute spline
K307FL Hollow shaft with involute spline



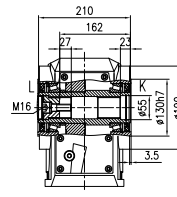
K307SG Hollow shaft with parallel key
K307SH Hollow shaft with parallel key



K307SI Hollow shaft with shrink disk

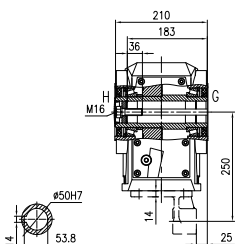


K307SJ Hollow shaft with shrink disk

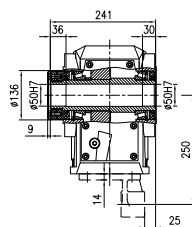


K307SK Hollow shaft with involute spline
K307SL Hollow shaft with involute spline

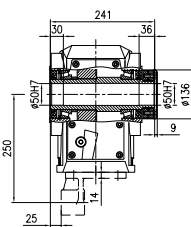
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B75-N(without filter)
or AX-PM26-B3B75-F(with filter)
Operation panel: A1-OP25



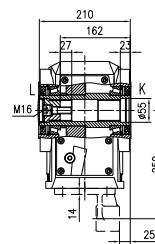
K307AG Hollow shaft with parallel key
K307AH Hollow shaft with parallel key
K307TG Hollow shaft with parallel key
K307TH Hollow shaft with parallel key



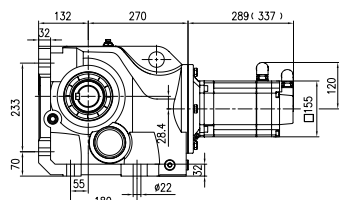
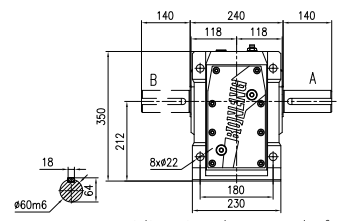
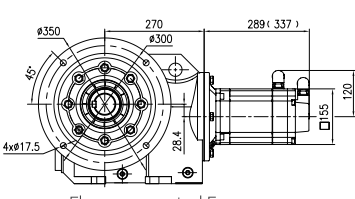
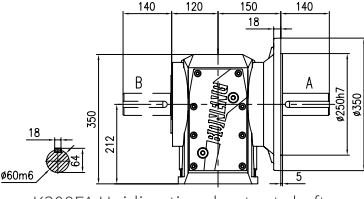
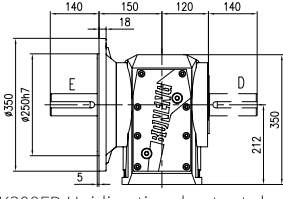
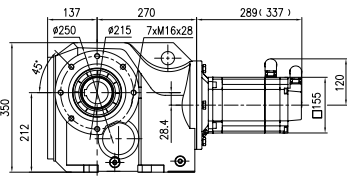
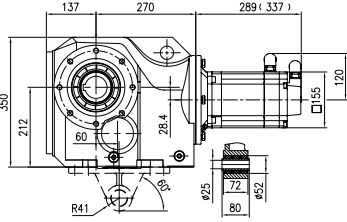
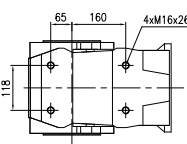
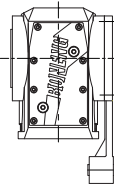
K307AI Hollow shaft with shrink disk
K307TI Hollow shaft with shrink disk



K307AJ Hollow shaft with shrink disk
K307TJ Hollow shaft with shrink disk



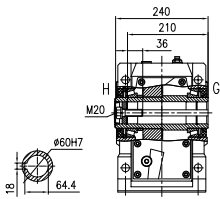
K307AK Hollow shaft with involute spline
K307AL Hollow shaft with involute spline
K307TK Hollow shaft with involute spline
K307TL Hollow shaft with involute spline

Mounting Mode	K308-MX080M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="324 575 568 608">Horizontal foot-mounted H</p>	 <p data-bbox="958 575 1266 652">K308HA Unidirectional output shaft K308HB Unidirectional output shaft K308HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="373 995 519 1028">Flange-mounted F</p>	 <p data-bbox="820 995 1128 1072">K308FA Unidirectional output shaft K308FB Unidirectional output shaft K308FC Bidirectional output shaft</p>  <p data-bbox="1201 995 1510 1072">K308FD Unidirectional output shaft K308FE Unidirectional output shaft K308FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="349 1415 552 1448">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="300 1902 641 1935">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1079 1935">Shaft-mounted A</p>  <p data-bbox="1226 1858 1469 1979">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	
Torque arm-mounted with accessory			

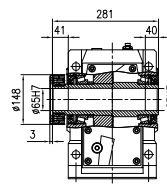
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K308-MX080M1E20FS0 Dimensions (mm)

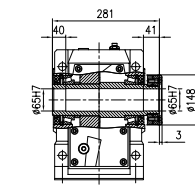
Corresponding Servo Drive Dimensions



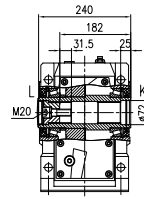
K308HG Hollow shaft with parallel key
K308HH Hollow shaft with parallel key



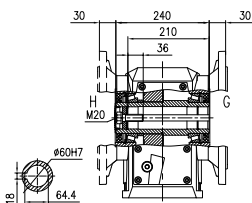
K308HI Hollow shaft with shrink disk



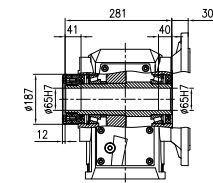
K308HJ Hollow shaft with shrink disk



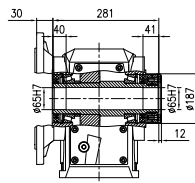
K308HK Hollow shaft with involute spline
K308HL Hollow shaft with involute spline



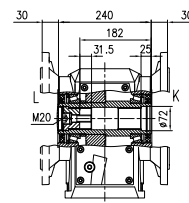
K308FG Hollow shaft with parallel key
K308FH Hollow shaft with parallel key



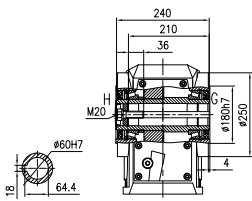
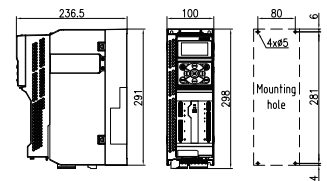
K308FI Hollow shaft with shrink disk



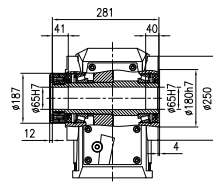
K308FJ Hollow shaft with shrink disk



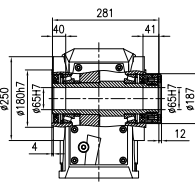
K308FK Hollow shaft with involute spline
K308FL Hollow shaft with involute spline



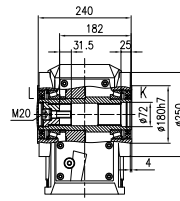
K308SG Hollow shaft with parallel key
K308SH Hollow shaft with parallel key



K308SI Hollow shaft with shrink disk

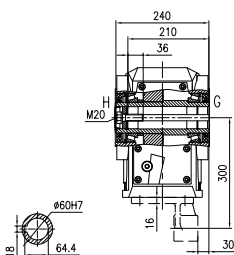


K308SJ Hollow shaft with shrink disk

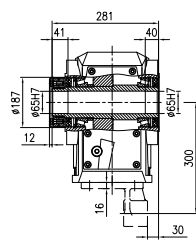


K308SK Hollow shaft with involute spline
K308SL Hollow shaft with involute spline

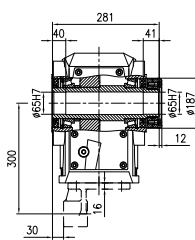
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3B75-N(without filter)
or AX-PM26-B3B75-F(with filter)
Operation panel: A1-OP25



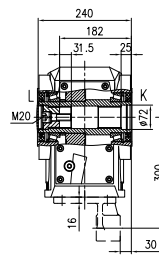
K308AG Hollow shaft with parallel key
K308AH Hollow shaft with parallel key
K308TG Hollow shaft with parallel key
K308TH Hollow shaft with parallel key



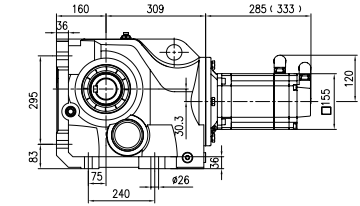
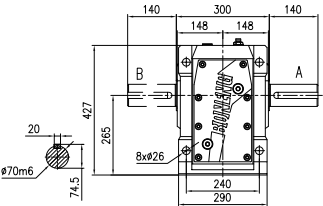
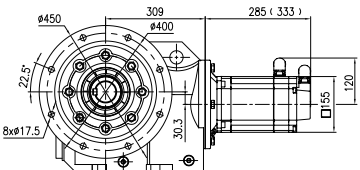
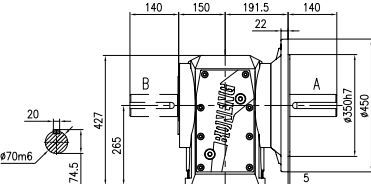
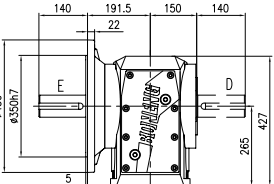
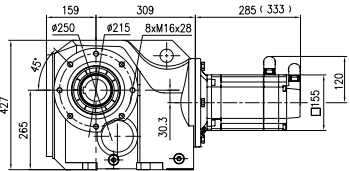
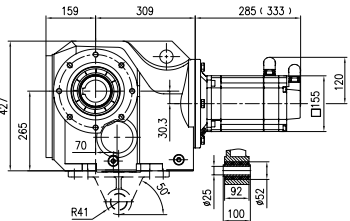
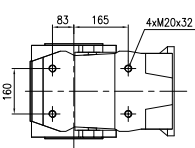
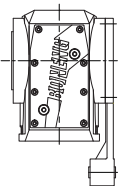
K308AI Hollow shaft with shrink disk
K308TI Hollow shaft with shrink disk



K308AJ Hollow shaft with shrink disk
K308TJ Hollow shaft with shrink disk



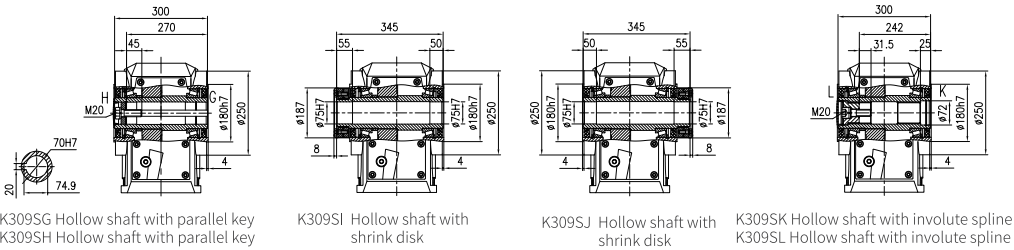
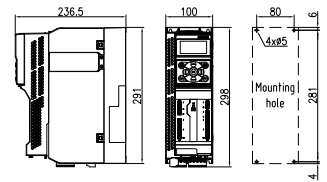
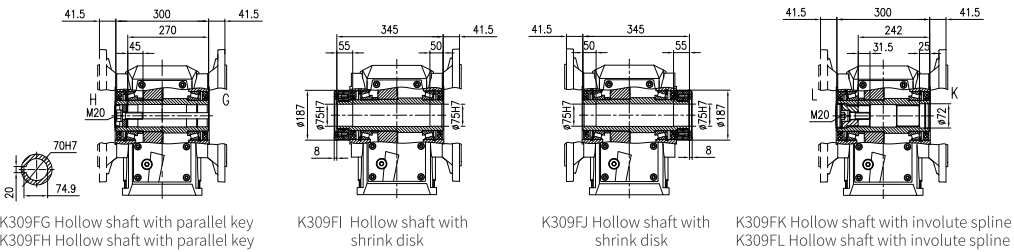
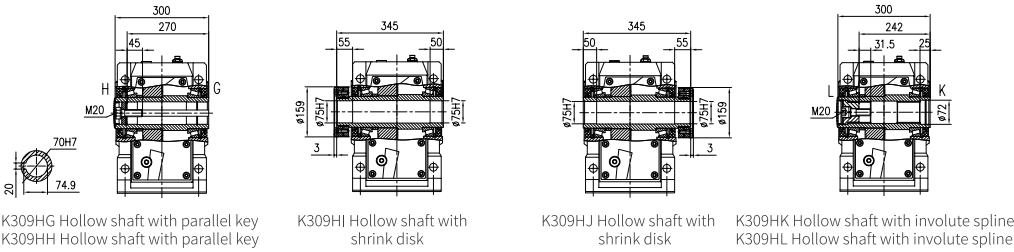
K308AK Hollow shaft with involute spline
K308AL Hollow shaft with involute spline
K308TK Hollow shaft with involute spline
K308TL Hollow shaft with involute spline

Mounting Mode	K309-MX080M1E20FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="337 583 570 606">Horizontal foot-mounted H</p>	 <p data-bbox="959 583 1263 650">K309HA Unidirectional output shaft K309HB Unidirectional output shaft K309HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="375 997 526 1019">Flange-mounted F</p>	 <p data-bbox="824 997 1122 1063">K309FA Unidirectional output shaft K309FB Unidirectional output shaft K309FC Bidirectional output shaft</p>	 <p data-bbox="1203 997 1507 1063">K309FD Unidirectional output shaft K309FE Unidirectional output shaft K309FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="347 1424 553 1446">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="305 1904 634 1926">Torque arm-mounted with accessory T</p>	 <p data-bbox="927 1904 1073 1926">Shaft-mounted A</p>	 <p data-bbox="1230 1860 1463 1970">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>
Torque arm-mounted with accessory			

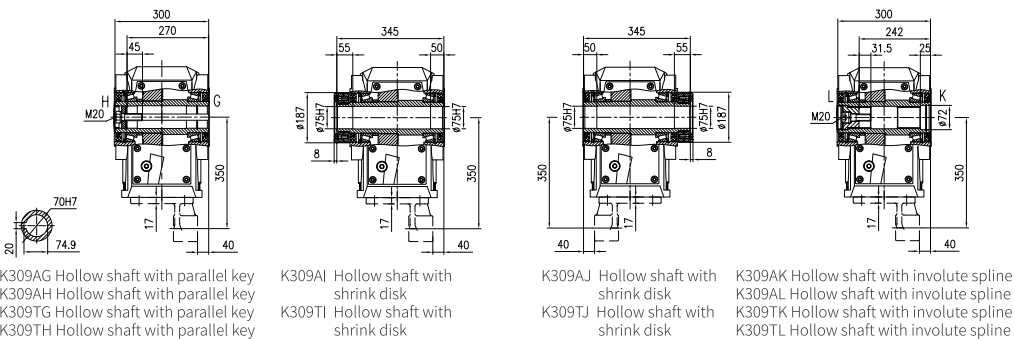
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K309-MX080M1E20FS0 Dimensions (mm)

Corresponding Servo Drive Dimensions



Control module: AX-CM55-PA-PE(ProfiNet)
 or AX-CM55-EA-PE(EtherCAT)
 Power module: AX-PM26-B3B75-N(without filter)
 or AX-PM26-B3B75-F(with filter)
 Operation panel: A1-OP25

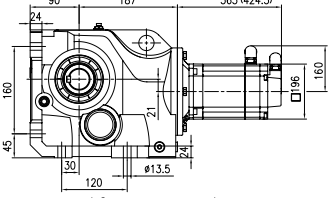
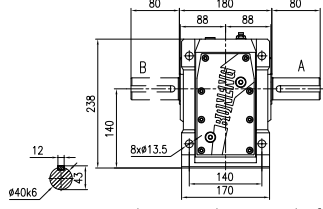
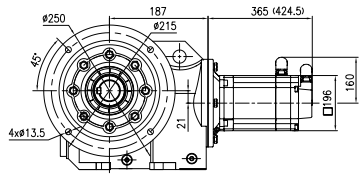
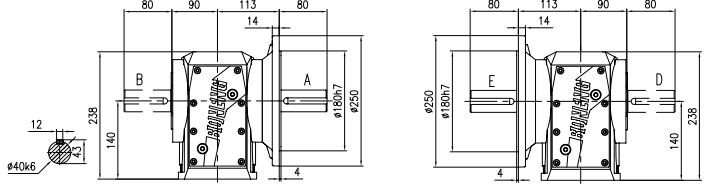
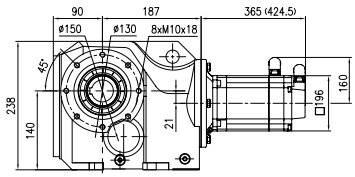
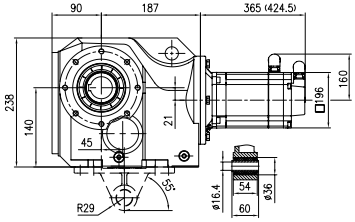
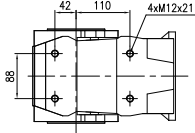
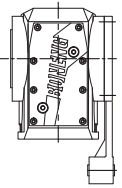


Servo Gearmotor: 6.6kW 42Nm 14.5A-1500r/min

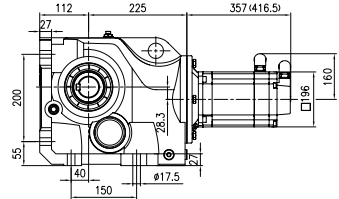
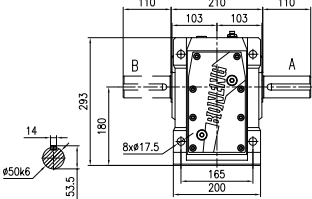
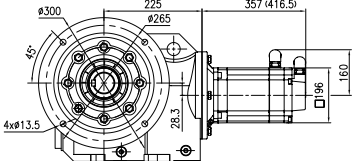
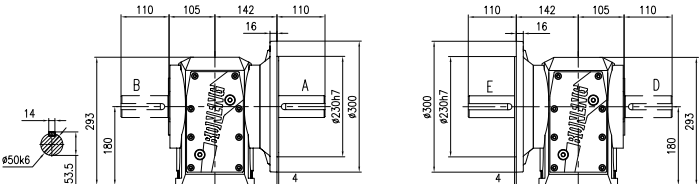
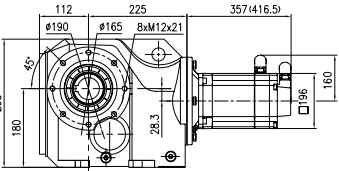
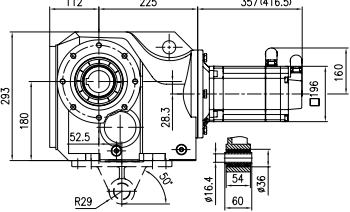
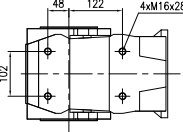
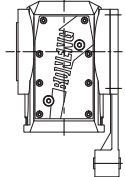
Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T2 (N.m)	Code	i_N	i_{ex}	i_z	T_{2N}	$J \cdot 10^{-4}$ (kg.m ²)	Φ (°)	f
357	176	B40	4	4.2	3355/798	680	15	18	3.86
311	202	B45	4.5	4.82	71126/14763	680	12	17	3.37
292	216	B50	5	5.14	36905/7182	700	10	17	3.24
268	235	B56	5.6	5.59	352/63	730	12	14	3.11
249	253	B63	6.3	6.02	915/152	750	10	15	2.96
217	290	B71	7.1	6.9	9699/1406	750	8.1	15	2.59
188	336	B80	8	8	8/1	750	8.9	12	2.23
164	385	B90	9	9.17	1696/185	750	7	12	1.95
153	411	C10	10	9.78	88/9	750	6.3	12	1.82
132	479	C11	11.2	11.4	1545/136	750	7.8	9	1.57
151	417	C10	10	9.93	1887/190	1300	14	13	3.12
134	470	C11	11.2	11.2	7854/703	1300	11	12	2.77
125	504	C13	12.5	12	1081/90	1380	20	9	2.74
109	575	C14	14	13.7	752/55	1550	16	9	2.7
98.7	638	C16	16	15.2	470/31	1650	14	9	2.59
86.2	731	C18	18	17.4	1739/100	1650	11	9	2.26
76.5	823	C20	20	19.6	3619/185	1650	9.1	9	2
68.2	924	C22	22.4	22.0	11891/540	1650	11	8	1.79
59.8	1054	C25	25	25.1	376/15	1750	9.1	8	1.66
54.0	1168	C28	28	27.8	2585/93	1750	8	8	1.50
66.4	949	C22	22.4	22.6	33835/1496	2850	17	7	3
60.5	1042	C25	25	24.8	104535/4216	3000	20	7	2.88
52.4	1201	C28	28	28.4	13635/476	3000	16	7	2.50
49.2	1291	C32	31.5	30.5	7575/248	3000	15	7	2.34
42.0	1499	C36	35.5	35.7	14847/416	3000	25	7	2.00
36.9	1705	C40	40	40.6	4545/112	3000	22	7	1.76
31.9	1974	C45	45	47	48177/1024	3000	24	7	1.52
39.7	1588	C40	40	37.8	3588/95	5000	93	6	3.15
33.6	1873	C45	45	44.6	759/17	5000	77	6	2.67
30	2100	C50	50	50	2001/40	5000	71	6	2.38
28.1	2243	C56	56	53.4	1656/31	5000	66	6	2.23
24.5	2566	C63	63	61.1	2139/35	5000	56	6	1.95
22.1	2852	C71	71	67.9	4416/65	5000	49	6	1.75
19.5	3238	C80	80	77.1	1541/20	5000	44	6	1.54
22.2	2843	C71	71	67.7	2100/31	9000	99	6	3.17
19.5	3234	C80	80	77	77/1	9000	84	6	2.78
17.4	3620	C90	90	86.2	1120/13	9000	74	6	2.49
15.7	4019	D10	100	95.7	287/3	9000	65	6	2.24
13.4	4704	D11	112	112	112/1	9000	52	6	1.91
12.5	5057	D13	125	120.4	602/5	9000	49	6	1.78

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K306□□-B40-D□□□-MX100M1E15FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3C11-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A40-□□□ 18:Without brake 16:With brake Power Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-B40-K-C48
K306□□-B45-D□□□-MX100M1E15FS0						
K306□□-B50-D□□□-MX100M1E15FS0						
K306□□-B56-D□□□-MX100M1E15FS0						
K306□□-B63-D□□□-MX100M1E15FS0						
K306□□-B71-D□□□-MX100M1E15FS0						
K306□□-B80-D□□□-MX100M1E15FS0						
K306□□-B90-D□□□-MX100M1E15FS0						
K306□□-C10-D□□□-MX100M1E15FS0						
K306□□-C11-D□□□-MX100M1E15FS0						
K307□□-C10-D□□□-MX100M1E15FS0						
K307□□-C11-D□□□-MX100M1E15FS0						
K307□□-C13-D□□□-MX100M1E15FS0						
K307□□-C14-D□□□-MX100M1E15FS0						
K307□□-C16-D□□□-MX100M1E15FS0						
K307□□-C18-D□□□-MX100M1E15FS0						
K307□□-C20-D□□□-MX100M1E15FS0						
K307□□-C22-D□□□-MX100M1E15FS0						
K307□□-C25-D□□□-MX100M1E15FS0						
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K310□□-C90-D□□□-MX100M1E15FS0						
K310□□-D10-D□□□-MX100M1E15FS0						
K310□□-D11-D□□□-MX100M1E15FS0						
K310□□-D13-D□□□-MX100M1E15FS0						

Mounting Mode	K306-MX100M1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="332 586 568 608">Horizontal foot-mounted H</p>	 <p data-bbox="958 586 1266 652">K306HA Unidirectional output shaft K306HB Unidirectional output shaft K306HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="373 995 527 1028">Flange-mounted F</p>	 <p data-bbox="820 995 1128 1072">K306FA Unidirectional output shaft K306FB Unidirectional output shaft K306FC Bidirectional output shaft</p> <p data-bbox="1201 995 1510 1072">K306FD Unidirectional output shaft K306FE Unidirectional output shaft K306FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="349 1426 560 1459">Short flange-mounted S</p>		
Shaft-mounted	 <p data-bbox="300 1902 641 1935">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1079 1935">Shaft-mounted A</p>  <p data-bbox="1226 1858 1469 1979">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

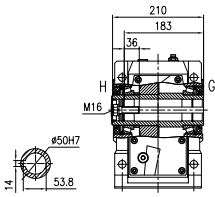
Note: Figures with parentheses are shown for length of servo gearmotor with brake

Mounting Mode	K307-MX100M1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="337 583 570 606">Horizontal foot-mounted H</p>	 <p data-bbox="959 583 1263 650">K307HA Unidirectional output shaft K307HB Unidirectional output shaft K307HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="375 997 526 1019">Flange-mounted F</p>	 <p data-bbox="824 997 1122 1063">K307FA Unidirectional output shaft K307FB Unidirectional output shaft K307FC Bidirectional output shaft</p> <p data-bbox="1203 997 1507 1063">K307FD Unidirectional output shaft K307FE Unidirectional output shaft K307FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="347 1424 553 1446">Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p data-bbox="305 1904 634 1926">Torque arm-mounted with accessory T</p>	 <p data-bbox="927 1904 1073 1926">Shaft-mounted A</p>  <p data-bbox="1230 1860 1463 1970">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

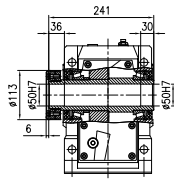
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K307-MX100M1E15FS0 Dimensions (mm)

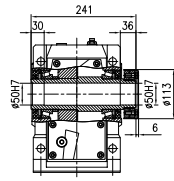
Corresponding Servo Drive Dimensions



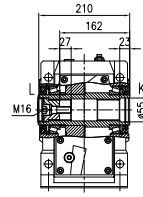
K307HG Hollow shaft with parallel key
K307HH Hollow shaft with parallel key



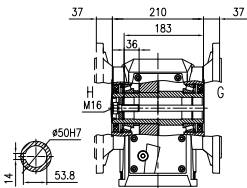
K307HI Hollow shaft with shrink disk



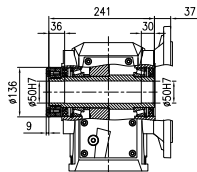
K307HJ Hollow shaft with shrink disk



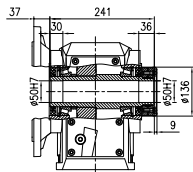
K307HK Hollow shaft with involute spline
K307HL Hollow shaft with involute spline



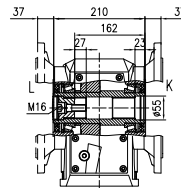
K307FG Hollow shaft with parallel key
K307FH Hollow shaft with parallel key



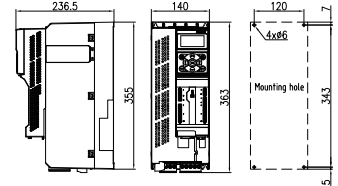
K307FI Hollow shaft with shrink disk



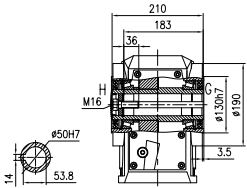
K307FJ Hollow shaft with shrink disk



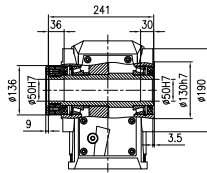
K307FK Hollow shaft with involute spline
K307FL Hollow shaft with involute spline



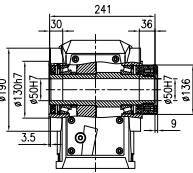
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C11-N(without filter)
or AX-PM26-B3C11-F(with filter)
Operation panel: A1-OP25



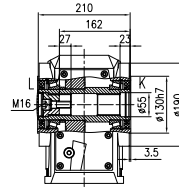
K307SG Hollow shaft with parallel key
K307SH Hollow shaft with parallel key



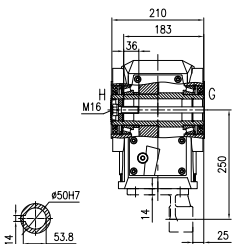
K307SI Hollow shaft with shrink disk



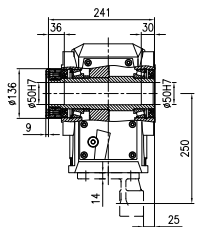
K307SJ Hollow shaft with shrink disk



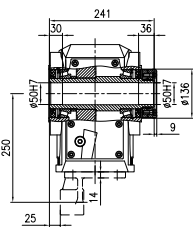
K307SK Hollow shaft with involute spline
K307SL Hollow shaft with involute spline



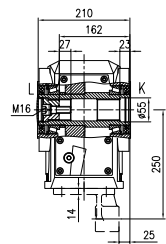
K307AG Hollow shaft with parallel key
K307AH Hollow shaft with parallel key
K307TG Hollow shaft with parallel key
K307TH Hollow shaft with parallel key



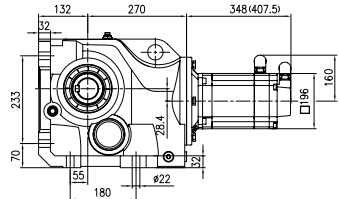
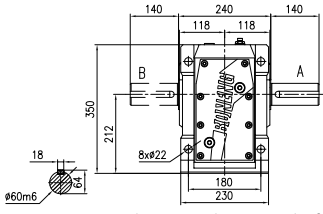
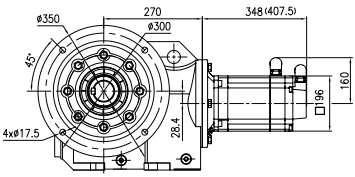
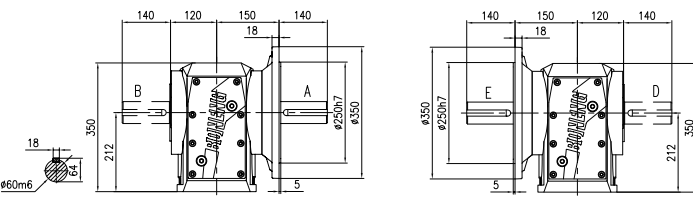
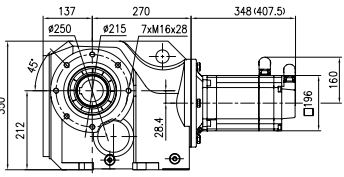
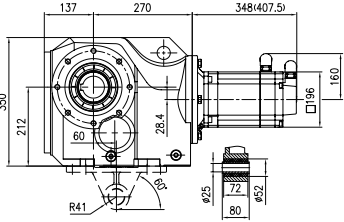
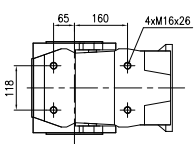
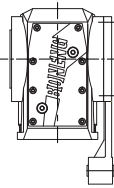
K307AI Hollow shaft with shrink disk
K307TI Hollow shaft with shrink disk



K307AJ Hollow shaft with shrink disk
K307TJ Hollow shaft with shrink disk



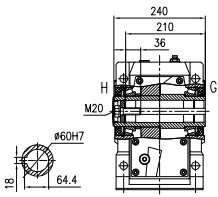
K307AK Hollow shaft with involute spline
K307AL Hollow shaft with involute spline
K307TK Hollow shaft with involute spline
K307TL Hollow shaft with involute spline

Mounting Mode	K308-MX100M1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p>Horizontal foot-mounted H</p>	 <p>K308HA Unidirectional output shaft K308HB Unidirectional output shaft K308HC Bidirectional output shaft</p>	
Flange-mounted	 <p>Flange-mounted F</p>	 <p>K308FA Unidirectional output shaft K308FB Unidirectional output shaft K308FC Bidirectional output shaft</p> <p>K308FD Unidirectional output shaft K308FE Unidirectional output shaft K308FF Bidirectional output shaft</p>	
Short flange-mounted	 <p>Short flange-mounted S</p>		
Shaft-mounted	 <p>Torque arm-mounted with accessory T</p>	 <p>Shaft-mounted A</p>	 <p>Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

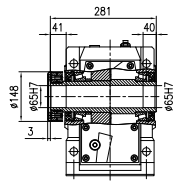
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K308-MX100M1E15FS0 Dimensions (mm)

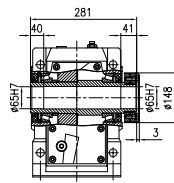
Corresponding Servo Drive Dimensions



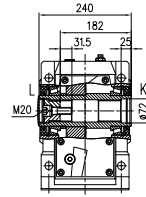
K308HG Hollow shaft with parallel key
K308HH Hollow shaft with parallel key



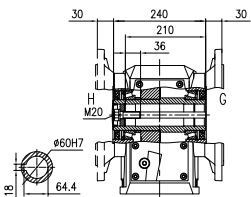
K308HI Hollow shaft with shrink disk



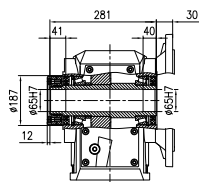
K308HJ Hollow shaft with shrink disk



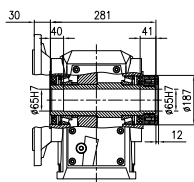
K308HK Hollow shaft with involute spline
K308HL Hollow shaft with involute spline



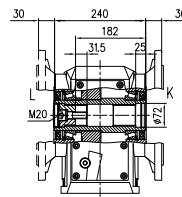
K308FG Hollow shaft with parallel key
K308FH Hollow shaft with parallel key



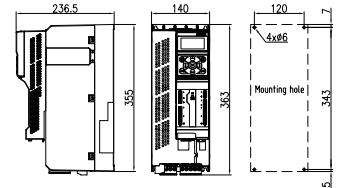
K308FI Hollow shaft with shrink disk



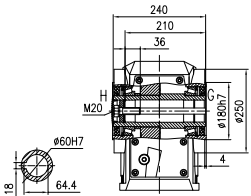
K308FJ Hollow shaft with shrink disk



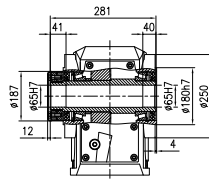
K308FK Hollow shaft with involute spline
K308FL Hollow shaft with involute spline



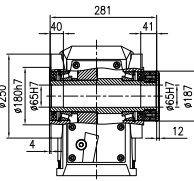
Control module: AX-CM55-PA-PE(ProfNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C11-N(without filter)
or AX-PM26-B3C11-F(with filter)
Operation panel: A1-OP25



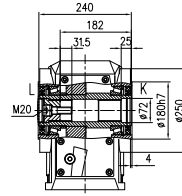
K308SG Hollow shaft with parallel key
K308SH Hollow shaft with parallel key



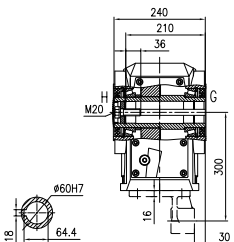
K308SI Hollow shaft with shrink disk



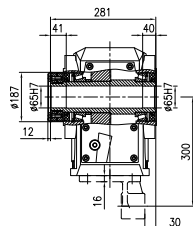
K308SJ Hollow shaft with shrink disk



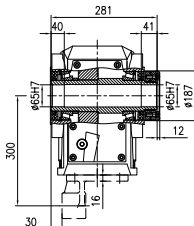
K308SK Hollow shaft with involute spline
K308SL Hollow shaft with involute spline



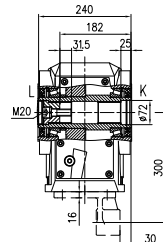
K308AG Hollow shaft with parallel key
K308AH Hollow shaft with parallel key
K308TG Hollow shaft with parallel key
K308TH Hollow shaft with parallel key



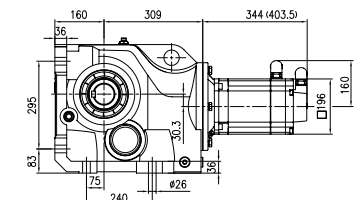
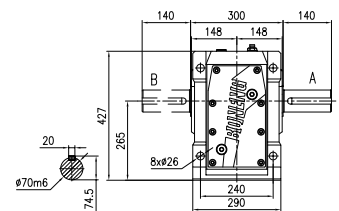
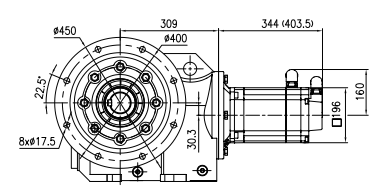
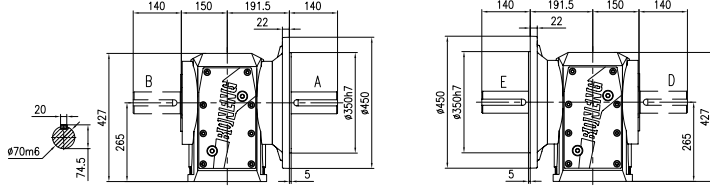
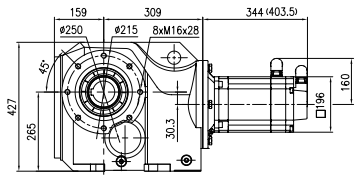
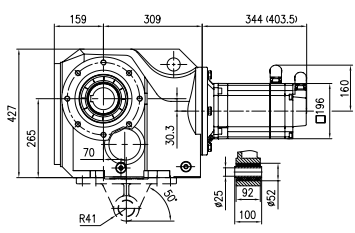
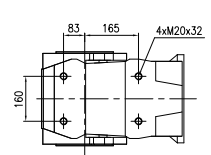
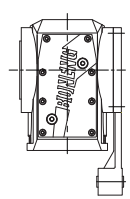
K308AI Hollow shaft with shrink disk
K308TI Hollow shaft with shrink disk



K308AJ Hollow shaft with shrink disk
K308TJ Hollow shaft with shrink disk



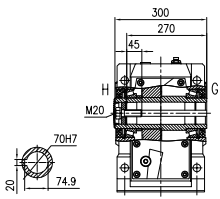
K308AK Hollow shaft with involute spline
K308AL Hollow shaft with involute spline
K308TK Hollow shaft with involute spline
K308TL Hollow shaft with involute spline

Mounting Mode	K309-MX100M1E15FS0 Dimensions (mm)	
Horizontal foot-mounted Mode	 <p data-bbox="324 575 568 608">Horizontal foot-mounted H</p>	 <p data-bbox="941 575 1266 652">K309HA Unidirectional output shaft K309HB Unidirectional output shaft K309HC Bidirectional output shaft</p>
Flange-mounted	 <p data-bbox="357 995 519 1028">Flange-mounted F</p>	 <p data-bbox="844 995 1169 1072">K309FA Unidirectional output shaft K309FB Unidirectional output shaft K309FC Bidirectional output shaft</p> <p data-bbox="1201 995 1526 1072">K309FD Unidirectional output shaft K309FE Unidirectional output shaft K309FF Bidirectional output shaft</p>
Short flange-mounted	 <p data-bbox="341 1415 552 1448">Short flange-mounted S</p>	
Shaft-mounted ----- Torque arm-mounted with accessory	 <p data-bbox="292 1902 633 1935">Torque arm-mounted with accessory T</p>	 <p data-bbox="909 1902 1071 1935">Shaft-mounted A</p>  <p data-bbox="1218 1858 1477 1979">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

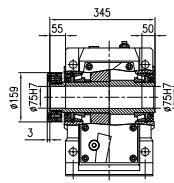
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K309-MX100M1E15FS0 Dimensions (mm)

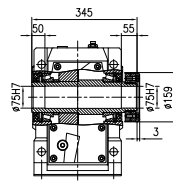
Corresponding Servo Drive Dimensions



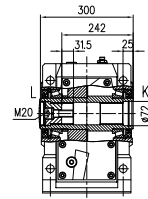
K309HG Hollow shaft with parallel key
K309HH Hollow shaft with parallel key



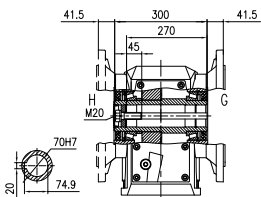
K309HI Hollow shaft with shrink disk



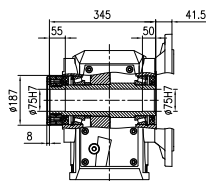
K309HJ Hollow shaft with shrink disk



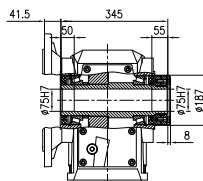
K309HK Hollow shaft with involute spline
K309HL Hollow shaft with involute spline



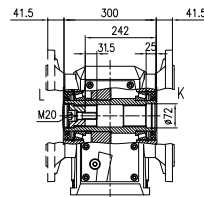
K309FG Hollow shaft with parallel key
K309FH Hollow shaft with parallel key



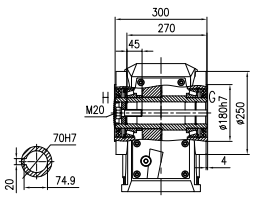
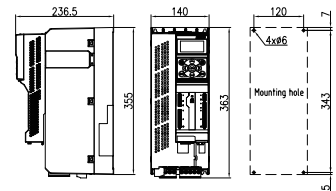
K309FI Hollow shaft with shrink disk



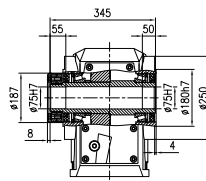
K309FJ Hollow shaft with shrink disk



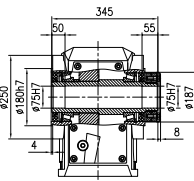
K309FK Hollow shaft with involute spline
K309FL Hollow shaft with involute spline



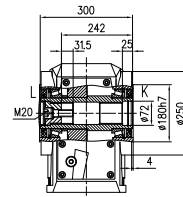
K309SG Hollow shaft with parallel key
K309SH Hollow shaft with parallel key



K309SI Hollow shaft with shrink disk

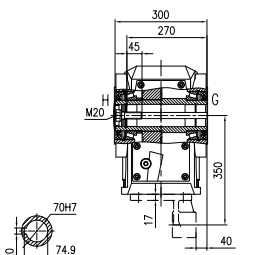


K309SJ Hollow shaft with shrink disk

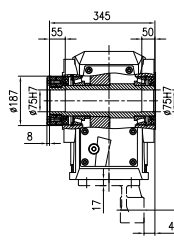


K309SK Hollow shaft with involute spline
K309SL Hollow shaft with involute spline

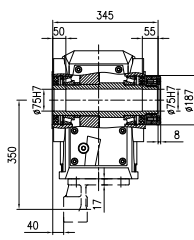
Control module: AX-CM55-PA-PE(ProfNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C11-N(without filter)
or AX-PM26-B3C11-F(with filter)
Operation panel: A1-OP25



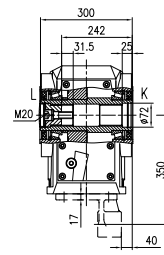
K309AG Hollow shaft with parallel key
K309AH Hollow shaft with parallel key
K309TG Hollow shaft with parallel key
K309TH Hollow shaft with parallel key



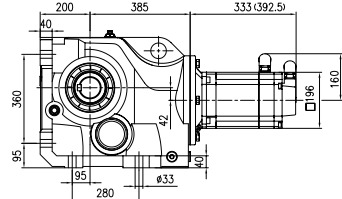
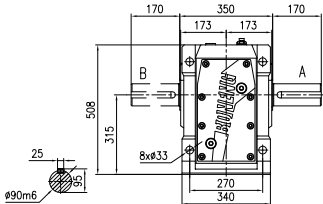
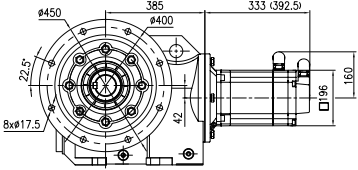
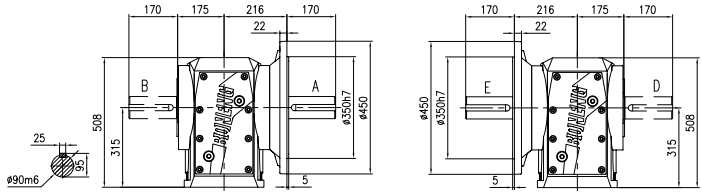
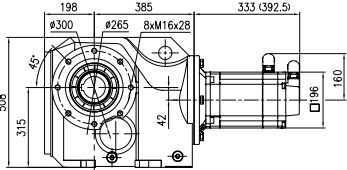
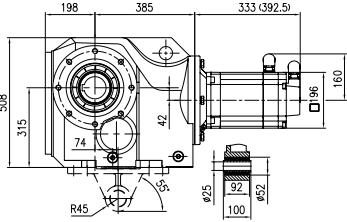
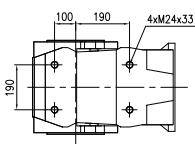
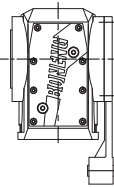
K309AI Hollow shaft with shrink disk
K309TI Hollow shaft with shrink disk



K309AJ Hollow shaft with shrink disk
K309TJ Hollow shaft with shrink disk



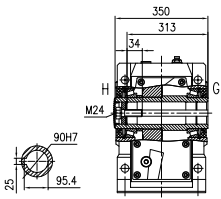
K309AK Hollow shaft with involute spline
K309AL Hollow shaft with involute spline
K309TK Hollow shaft with involute spline
K309TL Hollow shaft with involute spline

Mounting Mode	K310-MX100M1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="337 581 568 603">Horizontal foot-mounted H</p>	 <p data-bbox="958 581 1258 648">K310HA Unidirectional output shaft K310HB Unidirectional output shaft K310HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="373 997 527 1019">Flange-mounted F</p>	 <p data-bbox="860 997 1161 1063">K310FA Unidirectional output shaft K310FB Unidirectional output shaft K310FC Bidirectional output shaft</p> <p data-bbox="1201 997 1502 1063">K310FD Unidirectional output shaft K310FE Unidirectional output shaft K310FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="349 1426 552 1448">Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p data-bbox="300 1902 641 1924">Torque arm-mounted with accessory T</p>	 <p data-bbox="925 1902 1079 1924">Shaft-mounted A</p>  <p data-bbox="1226 1858 1469 1968">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

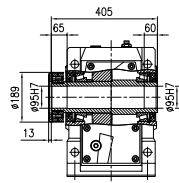
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K310-MX100M1E15FS0 Dimensions (mm)

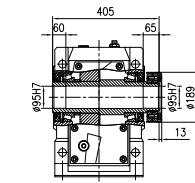
Corresponding Servo Drive Dimensions



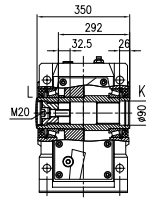
K310HG Hollow shaft with parallel key
K310HH Hollow shaft with parallel key



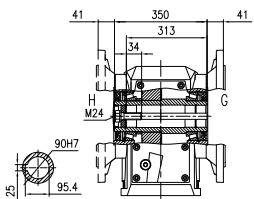
K310HI Hollow shaft with shrink disk



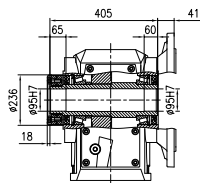
K310HJ Hollow shaft with shrink disk



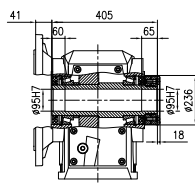
K310HK Hollow shaft with involute spline
K310HL Hollow shaft with involute spline



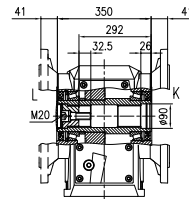
K310FG Hollow shaft with parallel key
K310FH Hollow shaft with parallel key



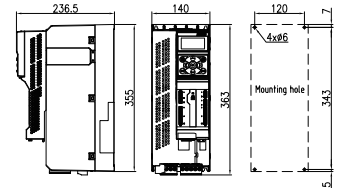
K310FI Hollow shaft with shrink disk



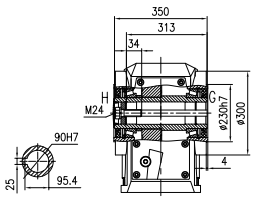
K310FJ Hollow shaft with shrink disk



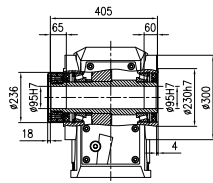
K310FK Hollow shaft with involute spline
K310FL Hollow shaft with involute spline



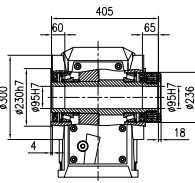
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C11-N(without filter)
or AX-PM26-B3C11-F(with filter)
Operation panel: A1-OP25



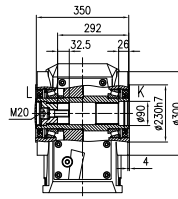
K310SG Hollow shaft with parallel key
K310SH Hollow shaft with parallel key



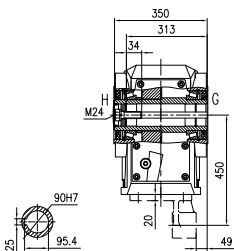
K310SI Hollow shaft with shrink disk



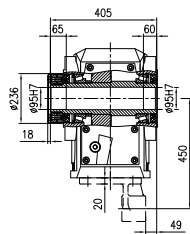
K310SJ Hollow shaft with shrink disk



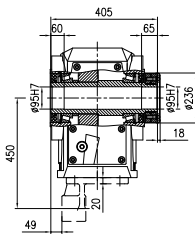
K310SK Hollow shaft with involute spline
K310SL Hollow shaft with involute spline



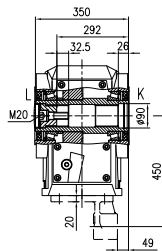
K310AG Hollow shaft with parallel key
K310AH Hollow shaft with parallel key
K310TG Hollow shaft with parallel key
K310TH Hollow shaft with parallel key



K310AI Hollow shaft with shrink disk
K310TI Hollow shaft with shrink disk



K310AJ Hollow shaft with shrink disk
K310TJ Hollow shaft with shrink disk



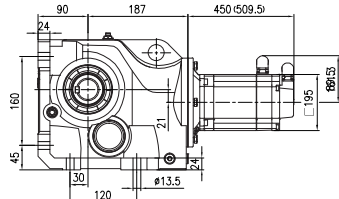
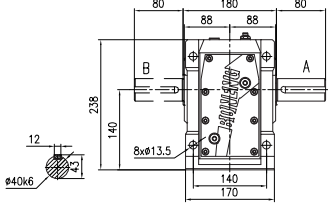
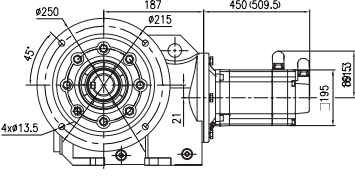
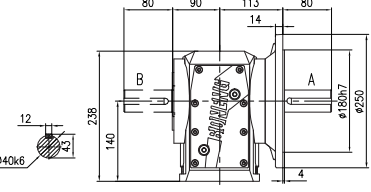
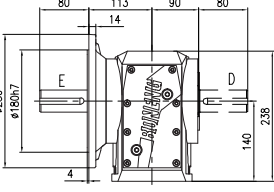
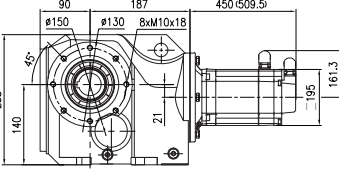
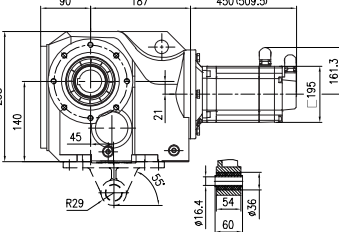
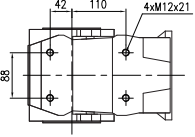
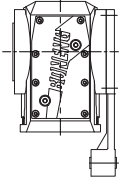
K310AK Hollow shaft with involute spline
K310AL Hollow shaft with involute spline
K310TK Hollow shaft with involute spline
K310TL Hollow shaft with involute spline

Servo Gearmotor: 9.11kW 58Nm 18.4A-1500r/min

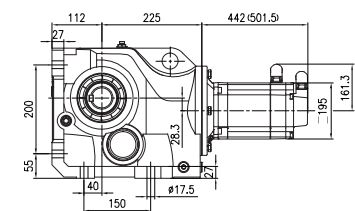
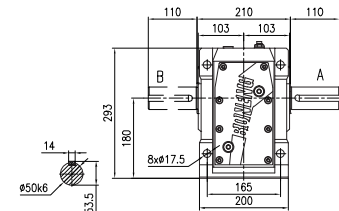
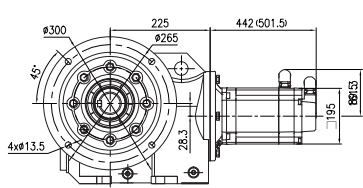
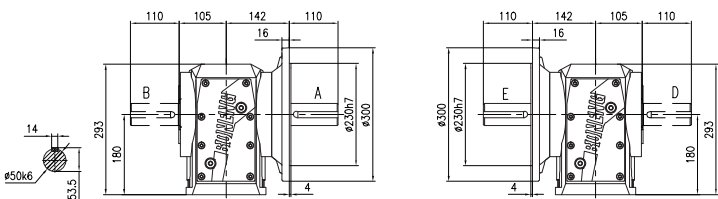
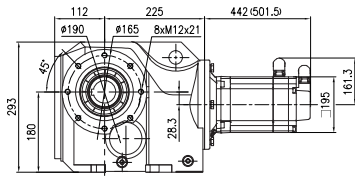
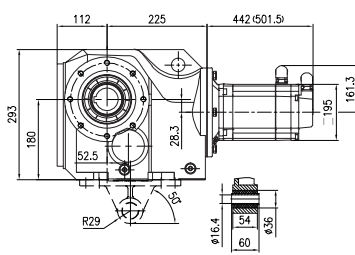
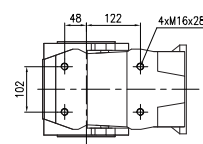
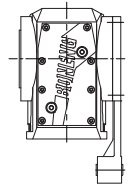
Actual Output Speed of Gearbox	Actual Output Torque of Gearbox	Nominal Ratio Code of Gearbox	Nominal Ratio of Gearbox	Exact Ratio of Gearbox	Gear Ratio of Gearbox	Normal Output Torque of Gearbox	Rotational Inertia of Gearbox	Back Lash of Gearbox	Service Coefficient of Gearbox
n_{2N} (r/min)	T ₂ (N·m)	Code	i_N	i_{ex}	i_z	T _{2N}	J 10 ⁻⁴ (kg·m ²)	Φ (°)	f
357	244	B40	4	4.2	3355/798	680	15	18	2.79
311	280	B45	4.5	4.82	71126/14763	680	12	17	2.43
292	298	B50	5	5.14	36905/7182	700	10	17	2.35
268	324	B56	5.6	5.59	352/63	730	12	14	2.25
249	349	B63	6.3	6.02	915/152	750	10	15	2.15
217	400	B71	7.1	6.9	9699/1406	750	8.1	15	1.88
188	464	B80	8	8	8/1	750	8.9	12	1.62
219	398	B71	7.1	6.86	391/57	1300	25	13	3.27
192	453	B80	8	7.81	1632/209	1300	20	13	2.87
173	502	B90	9	8.66	5100/589	1300	17	13	2.59
151	576	C10	10	9.93	1887/190	1300	14	13	2.26
134	650	C11	11.2	11.2	7854/703	1300	11	12	2
125	696	C13	12.5	12	1081/90	1380	20	9	1.98
109	795	C14	14	13.7	752/55	1550	16	9	1.95
98.7	882	C16	16	15.2	470/31	1650	14	9	1.87
86.2	1009	C18	18	17.4	1739/100	1650	11	9	1.64
76.5	1137	C20	20	19.6	3619/185	1650	9.1	9	1.45
94.3	922	C16	16	15.9	7575/476	2600	29	7	2.82
81.1	1073	C18	18	18.5	80295/4352	2600	24	7	2.42
74.6	1166	C20	20	20.1	32825/1632	2600	21	7	2.23
66.4	1311	C22	22.4	22.6	33835/1496	2850	17	7	2.17
60.5	1438	C25	25	24.8	104535/4216	3000	20	7	2.09
52.4	1659	C28	28	28.6	13635/476	3000	16	7	1.81
49.2	1769	C32	31.5	30.5	7575/248	3000	15	7	1.70
53.8	1618	C28	28	27.9	47771/1710	5000	55	7	3.09
47.9	1815	C32	31.5	31.3	8924/285	5000	47	7	2.75
43.5	2001	C36	35.5	34.5	69/2	5000	102	6	2.5
39.7	2192	C40	40	37.8	3588/95	5000	93	6	2.28
33.6	2587	C45	45	44.6	759/17	5000	77	6	1.93
30	2900	C50	50	50	2001/40	5000	71	6	1.72
28.1	3097	C56	56	53.4	1656/31	5000	66	6	1.61
30.4	2865	C50	50	49.4	938/19	8500	139	6	2.97
26	3341	C56	56	57.6	980/17	9000	116	6	2.69
23.5	3706	C63	63	63.9	511/8	9000	107	6	2.43
22.2	3927	C71	71	67.7	2100/31	9000	99	6	2.29
19.5	4466	C80	80	77	77/1	9000	84	6	2.02
17.4	5000	C90	90	86.2	1120/13	9000	74	6	1.8
15.7	5551	D10	100	95.7	287/3	9000	65	6	1.62

Attention: Operation frequency ≤ 60 times/h, service coefficient f is recommended as 1.5; Operation frequency ≤ 120 times/h, service coefficient f is recommended as 1.75; Operation frequency ≥ 120 times/h, service coefficient f is recommended as over 2.

Servo Gearmotor Order Number	Servo Drive Order Number			Cable Configuration Order Number		Braking Resistor Order Number
	Control Module	Power Module	Operation Panel	Power Cable of Servo Gearmotor	Signal Cable of Servo Gearmotor	
K306□□-B40-D□□□-MX100L1E15FS0	AX-CM55-□□-PE PA:PROFINET Communication EA:EtherCAT Communication	AX-PM26-B3C15-□ N:Without filter F:With filter	A1-OP25	A1-H□□-A40-□□□ 18:Without brake 16:With brake Power Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H17-A10-□□□ Signal Cable Length B30:3m B50:5m B70:7m C10:10m C15:15m C20:20m	A1-H02-B50-K-C36
K306□□-B45-D□□□-MX100L1E15FS0						
K306□□-B50-D□□□-MX100L1E15FS0						
K306□□-B56-D□□□-MX100L1E15FS0						
K306□□-B63-D□□□-MX100L1E15FS0						
K306□□-B71-D□□□-MX100L1E15FS0						
K306□□-B80-D□□□-MX100L1E15FS0						
K307□□-B71-D□□□-MX100L1E15FS0						
K307□□-B80-D□□□-MX100L1E15FS0						
K307□□-B90-D□□□-MX100L1E15FS0						
K307□□-C10-D□□□-MX100L1E15FS0						
K307□□-C11-D□□□-MX100L1E15FS0						
K307□□-C13-D□□□-MX100L1E15FS0						
K307□□-C14-D□□□-MX100L1E15FS0						
K307□□-C16-D□□□-MX100L1E15FS0						
K307□□-C18-D□□□-MX100L1E15FS0						
K307□□-C20-D□□□-MX100L1E15FS0						
K308□□-C16-D□□□-MX100L1E15FS0						
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K308□□-C32-D□□□-MX100L1E15FS0						
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K309□□-C40-D□□□-MX100L1E15FS0						
K309□□-C45-D□□□-MX100L1E15FS0						
K309□□-C50-D□□□-MX100L1E15FS0						
K309□□-C56-D□□□-MX100L1E15FS0						
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K310□□-C71-D□□□-MX100L1E15FS0						
K310□□-C80-D□□□-MX100L1E15FS0						
K310□□-C90-D□□□-MX100L1E15FS0						
K310□□-D10-D□□□-MX100L1E15FS0						

Mounting Mode	K306-MX100L1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p data-bbox="337 581 570 603">Horizontal foot-mounted H</p>	 <p data-bbox="959 581 1263 648">K306HA Unidirectional output shaft K306HB Unidirectional output shaft K306HC Bidirectional output shaft</p>	
Flange-mounted	 <p data-bbox="375 1002 526 1024">Flange-mounted F</p>	 <p data-bbox="824 1002 1128 1068">K306FA Unidirectional output shaft K306FB Unidirectional output shaft K306FC Bidirectional output shaft</p>  <p data-bbox="1203 1002 1507 1068">K306FD Unidirectional output shaft K306FE Unidirectional output shaft K306FF Bidirectional output shaft</p>	
Short flange-mounted	 <p data-bbox="345 1422 557 1444">Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p data-bbox="305 1908 638 1931">Torque arm-mounted with accessory T</p>	 <p data-bbox="927 1908 1076 1931">Shaft-mounted A</p>  <p data-bbox="1230 1864 1466 1975">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

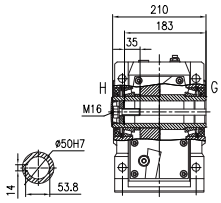
Note: Figures with parentheses are shown for length of servo gearmotor with brake

Mounting Mode	K307-MX100L1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p style="text-align: center;">Horizontal foot-mounted H</p>	 <p style="text-align: center;">K307HA Unidirectional output shaft K307HB Unidirectional output shaft K307HC Bidirectional output shaft</p>	
Flange-mounted	 <p style="text-align: center;">Flange-mounted F</p>	 <p style="text-align: center;">K307FA Unidirectional output shaft K307FB Unidirectional output shaft K307FC Bidirectional output shaft</p> <p style="text-align: center;">K307FD Unidirectional output shaft K307FE Unidirectional output shaft K307FF Bidirectional output shaft</p>	
Short flange-mounted	 <p style="text-align: center;">Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p style="text-align: center;">Torque arm-mounted with accessory T</p>	 <p style="text-align: center;">Shaft-mounted A</p>  <p style="text-align: center;">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

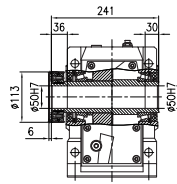
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K307-MX100ML1E15FS0 Dimensions (mm)

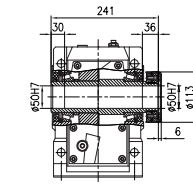
Corresponding Servo Drive Dimensions



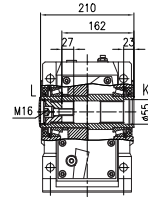
K307HG Hollow shaft with parallel key
K307HH Hollow shaft with parallel key



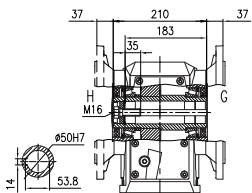
K307HI Hollow shaft with shrink disk



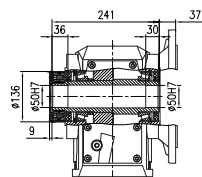
K307HJ Hollow shaft with shrink disk



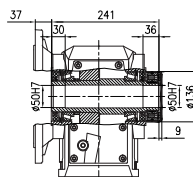
K307HK Hollow shaft with involute spline
K307HL Hollow shaft with involute spline



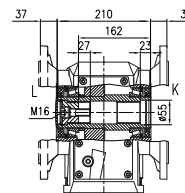
K307FG Hollow shaft with parallel key
K307FH Hollow shaft with parallel key



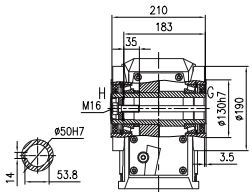
K307FI Hollow shaft with shrink disk



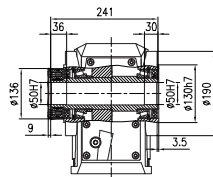
K307FJ Hollow shaft with shrink disk



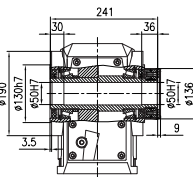
K307FK Hollow shaft with involute spline
K307FL Hollow shaft with involute spline



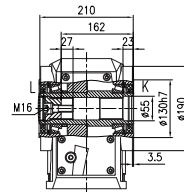
K307SG Hollow shaft with parallel key
K307SH Hollow shaft with parallel key



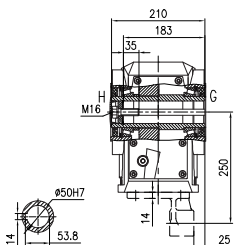
K307SI Hollow shaft with shrink disk



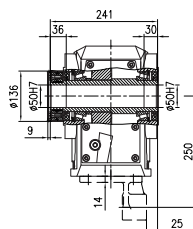
K307SJ Hollow shaft with shrink disk



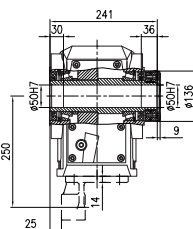
K307SK Hollow shaft with involute spline
K307SL Hollow shaft with involute spline



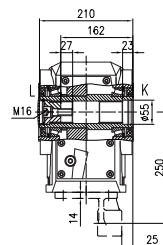
K307AG Hollow shaft with parallel key
K307AH Hollow shaft with parallel key
K307TG Hollow shaft with parallel key
K307TH Hollow shaft with parallel key



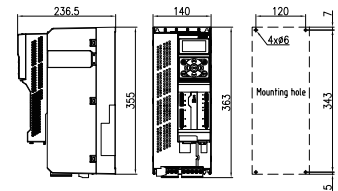
K307AI Hollow shaft with shrink disk
K307AJ Hollow shaft with shrink disk
K307TI Hollow shaft with shrink disk



K307AJ Hollow shaft with shrink disk
K307TJ Hollow shaft with shrink disk
K307TJ Hollow shaft with shrink disk



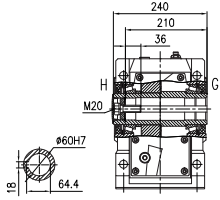
K307AK Hollow shaft with involute spline
K307AL Hollow shaft with involute spline
K307TK Hollow shaft with involute spline
K307TL Hollow shaft with involute spline



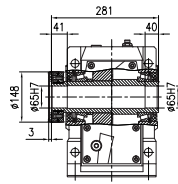
Control module: AX-CM55-PA-PE(ProfNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C15-N(without filter)
or AX-PM26-B3C15-F(with filter)
Operation panel: A1-OP25

K308-MX100L1E15FS0 Dimensions (mm)

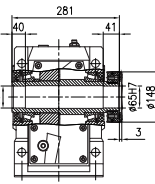
Corresponding Servo Drive Dimensions



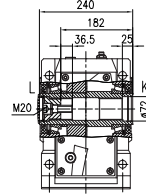
K308HG Hollow shaft with parallel key
K308HH Hollow shaft with parallel key



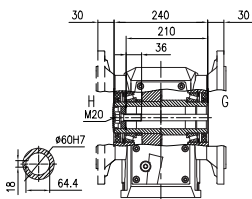
K308HI Hollow shaft with shrink disk



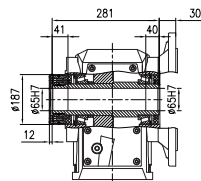
K308HJ Hollow shaft with shrink disk



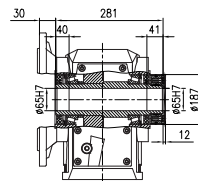
K308HK Hollow shaft with involute spline
K308HL Hollow shaft with involute spline



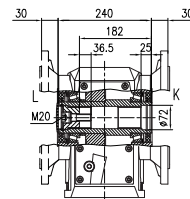
K308FG Hollow shaft with parallel key
K308FH Hollow shaft with parallel key



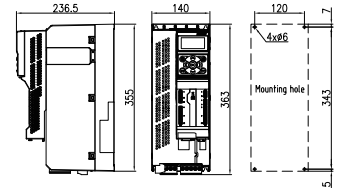
K308FI Hollow shaft with shrink disk



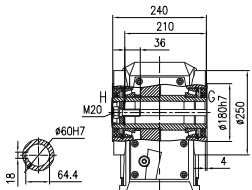
K308FJ Hollow shaft with shrink disk



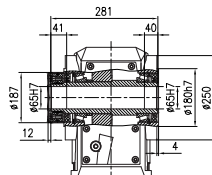
K308FK Hollow shaft with involute spline
K308FL Hollow shaft with involute spline



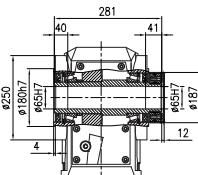
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C15-N(without filter)
or AX-PM26-B3C15-F(with filter)
Operation panel: A1-OP25



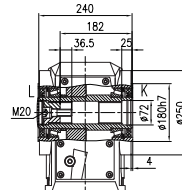
K308SG Hollow shaft with parallel key
K308SH Hollow shaft with parallel key



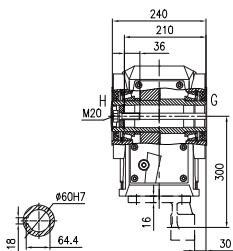
K308SI Hollow shaft with shrink disk



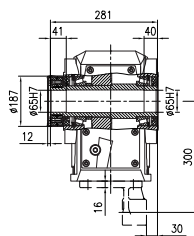
K308SJ Hollow shaft with shrink disk



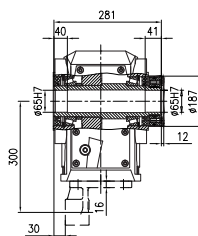
K308SK Hollow shaft with involute spline
K308SL Hollow shaft with involute spline



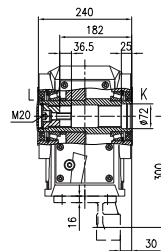
K308AG Hollow shaft with parallel key
K308AH Hollow shaft with parallel key
K308TG Hollow shaft with parallel key
K308TH Hollow shaft with parallel key



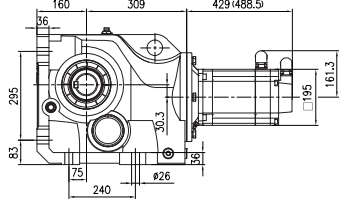
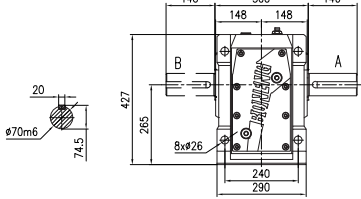
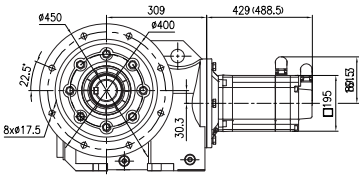
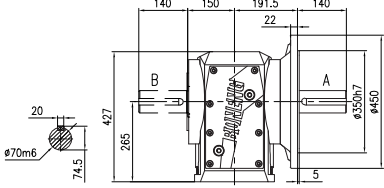
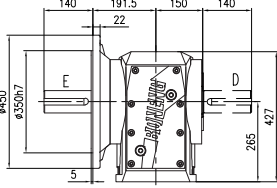
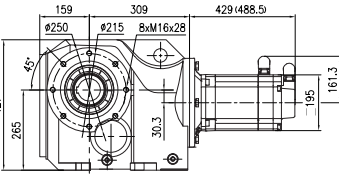
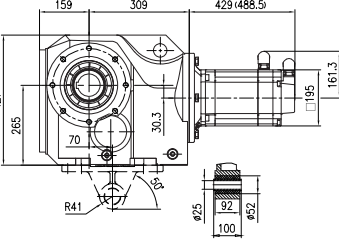
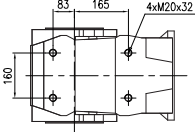
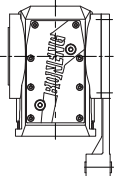
K308AI Hollow shaft with shrink disk
K308TI Hollow shaft with shrink disk



K308AJ Hollow shaft with shrink disk
K308TJ Hollow shaft with shrink disk



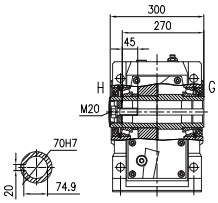
K308AK Hollow shaft with involute spline
K308AL Hollow shaft with involute spline
K308TK Hollow shaft with involute spline
K308TL Hollow shaft with involute spline

Mounting Mode	K309-MX100L1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p style="text-align: center;">Horizontal foot-mounted H</p>	 <p style="text-align: center;">K309HA Unidirectional output shaft K309HB Unidirectional output shaft K309HC Bidirectional output shaft</p>	
Flange-mounted	 <p style="text-align: center;">Flange-mounted F</p>	 <p style="text-align: center;">K309FA Unidirectional output shaft K309FB Unidirectional output shaft K309FC Bidirectional output shaft</p>	 <p style="text-align: center;">K309FD Unidirectional output shaft K309FE Unidirectional output shaft K309FF Bidirectional output shaft</p>
Short flange-mounted	 <p style="text-align: center;">Short flange-mounted S</p>		
Shaft-mounted	 <p style="text-align: center;">Torque arm-mounted with accessory T</p>	 <p style="text-align: center;">Shaft-mounted A</p>	 <p style="text-align: center;">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>

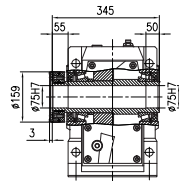
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K309-MX100L1E15FS0 Dimensions (mm)

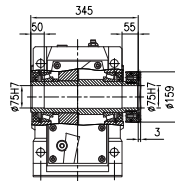
Corresponding Servo Drive Dimensions



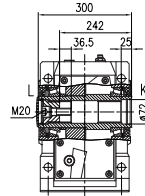
K309HG Hollow shaft with parallel key
K309HH Hollow shaft with parallel key



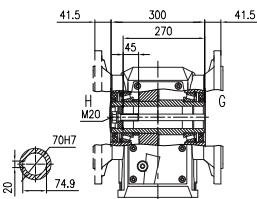
K309HI Hollow shaft with shrink disk



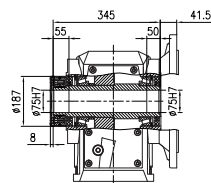
K309HJ Hollow shaft with shrink disk



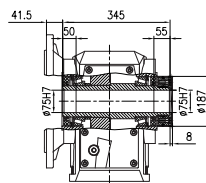
K309HK Hollow shaft with involute spline
K309HL Hollow shaft with involute spline



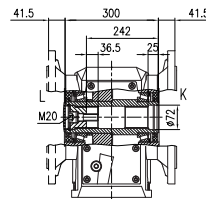
K309FG Hollow shaft with parallel key
K309FH Hollow shaft with parallel key



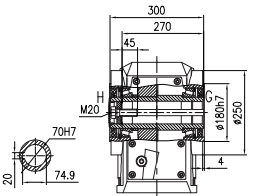
K309FI Hollow shaft with shrink disk



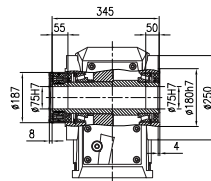
K309FJ Hollow shaft with shrink disk



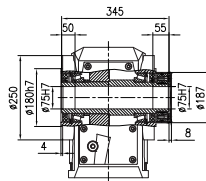
K309FK Hollow shaft with involute spline
K309FL Hollow shaft with involute spline



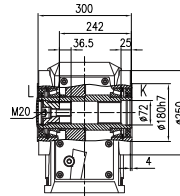
K309SG Hollow shaft with parallel key
K309SH Hollow shaft with parallel key



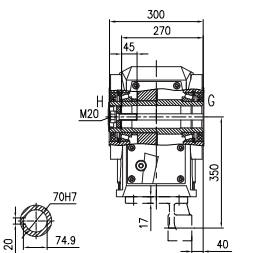
K309SI Hollow shaft with shrink disk



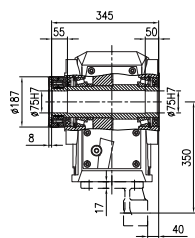
K309SJ Hollow shaft with shrink disk



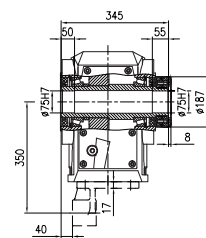
K309SK Hollow shaft with involute spline
K309SL Hollow shaft with involute spline



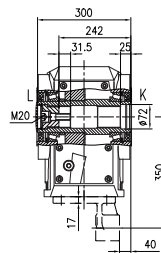
K309AG Hollow shaft with parallel key
K309AH Hollow shaft with parallel key
K309TG Hollow shaft with parallel key
K309TH Hollow shaft with parallel key



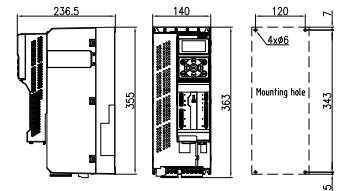
K309AI Hollow shaft with shrink disk
K309TI Hollow shaft with shrink disk



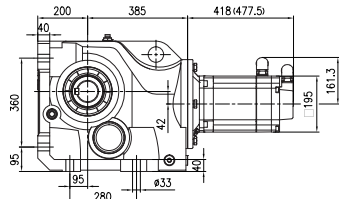
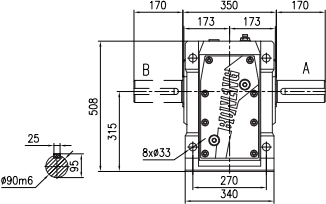
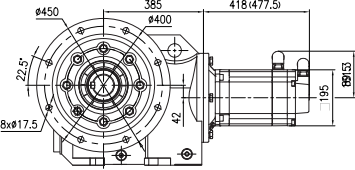
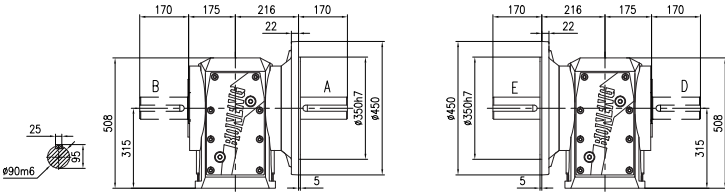
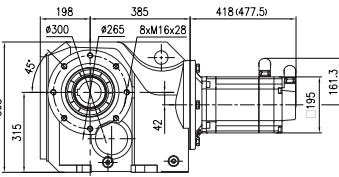
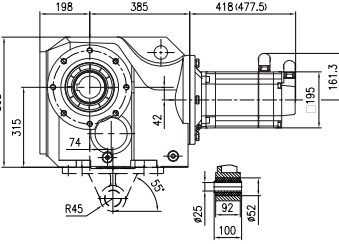
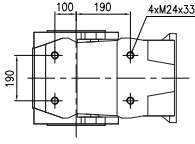
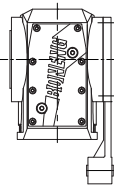
K309AJ Hollow shaft with shrink disk
K309TJ Hollow shaft with shrink disk



K309AK Hollow shaft with involute spline
K309AL Hollow shaft with involute spline
K309TK Hollow shaft with involute spline
K309TL Hollow shaft with involute spline



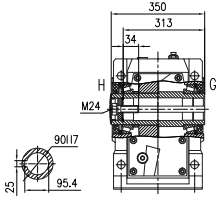
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C15-N(without filter)
or AX-PM26-B3C15-F(with filter)
Operation panel: A1-OP25

Mounting Mode	K310-MX100L1E15FS0 Dimensions (mm)		
Horizontal foot-mounted Mode	 <p style="text-align: center;">Horizontal foot-mounted H</p>	 <p style="text-align: center;">K310HA Unidirectional output shaft K310HB Unidirectional output shaft K310HC Bidirectional output shaft</p>	
Flange-mounted	 <p style="text-align: center;">Flange-mounted F</p>	 <p style="text-align: center;">K310FA Unidirectional output shaft K310FB Unidirectional output shaft K310FC Bidirectional output shaft</p> <p style="text-align: center;">K310FD Unidirectional output shaft K310FE Unidirectional output shaft K310FF Bidirectional output shaft</p>	
Short flange-mounted	 <p style="text-align: center;">Short flange-mounted S</p>		
Shaft-mounted Torque arm-mounted with accessory	 <p style="text-align: center;">Torque arm-mounted with accessory T</p>	 <p style="text-align: center;">Shaft-mounted A</p>  <p style="text-align: center;">Torque arm-mounted with side accessory M Dimension figures can be found from dimensions (Complementary Drawings)</p>	

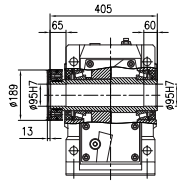
Note: Figures with parentheses are shown for length of servo gearmotor with brake

K310-MX100L1E15FS0 Dimensions (mm)

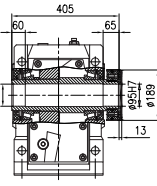
Corresponding Servo Drive Dimensions



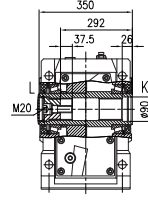
K310HG Hollow shaft with parallel key
K310HH Hollow shaft with parallel key



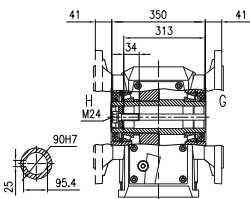
K310HI Hollow shaft with shrink disk



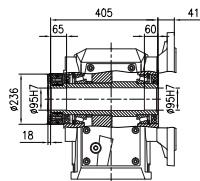
K310HJ Hollow shaft with shrink disk



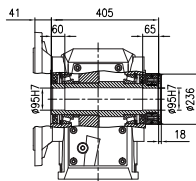
K310HK Hollow shaft with involute spline
K310HL Hollow shaft with involute spline



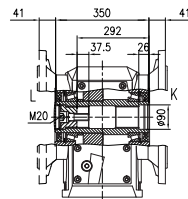
K310FG Hollow shaft with parallel key
K310FH Hollow shaft with parallel key



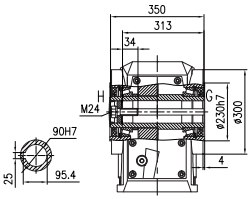
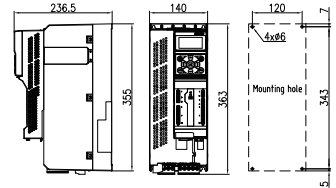
K310FI Hollow shaft with shrink disk



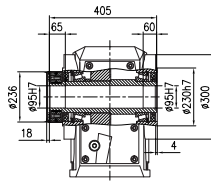
K310FJ Hollow shaft with shrink disk



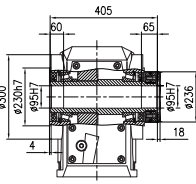
K310FK Hollow shaft with involute spline
K310FL Hollow shaft with involute spline



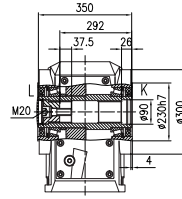
K310SG Hollow shaft with parallel key
K310SH Hollow shaft with parallel key



K310SI Hollow shaft with shrink disk

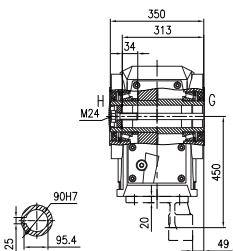


K310SJ Hollow shaft with shrink disk

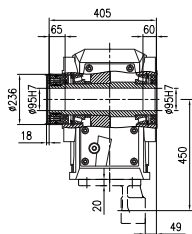


K310SK Hollow shaft with involute spline
K310SL Hollow shaft with involute spline

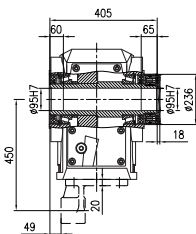
Control module: AX-CM55-PA-PE(ProfiNet)
or AX-CM55-EA-PE(EtherCAT)
Power module: AX-PM26-B3C15-N(without filter)
or AX-PM26-B3C15-F(with filter)
Operation panel: A1-OP25



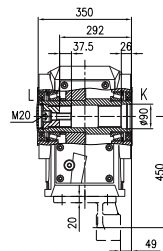
K310AG Hollow shaft with parallel key
K310AH Hollow shaft with parallel key
K310TG Hollow shaft with parallel key
K310TH Hollow shaft with parallel key



K310AI Hollow shaft with shrink disk
K310TI Hollow shaft with shrink disk

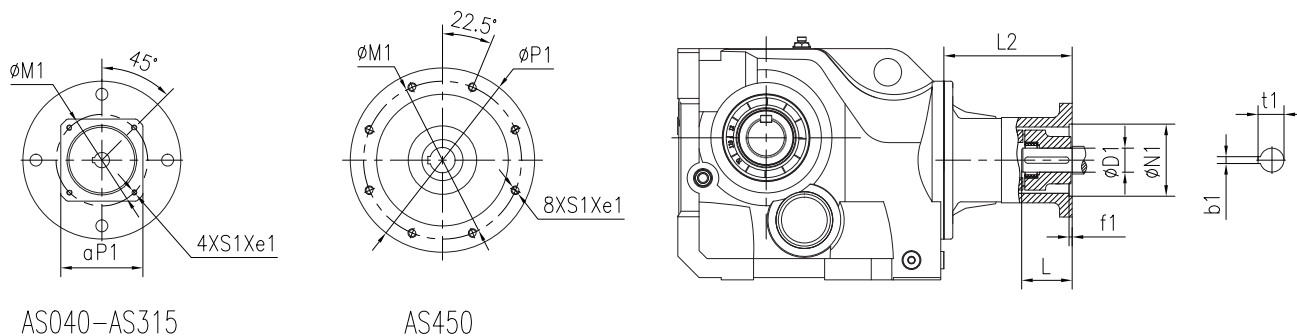


K310AJ Hollow shaft with shrink disk
K310TJ Hollow shaft with shrink disk



K310AK Hollow shaft with involute spline
K310AL Hollow shaft with involute spline
K310TK Hollow shaft with involute spline
K310TL Hollow shaft with involute spline

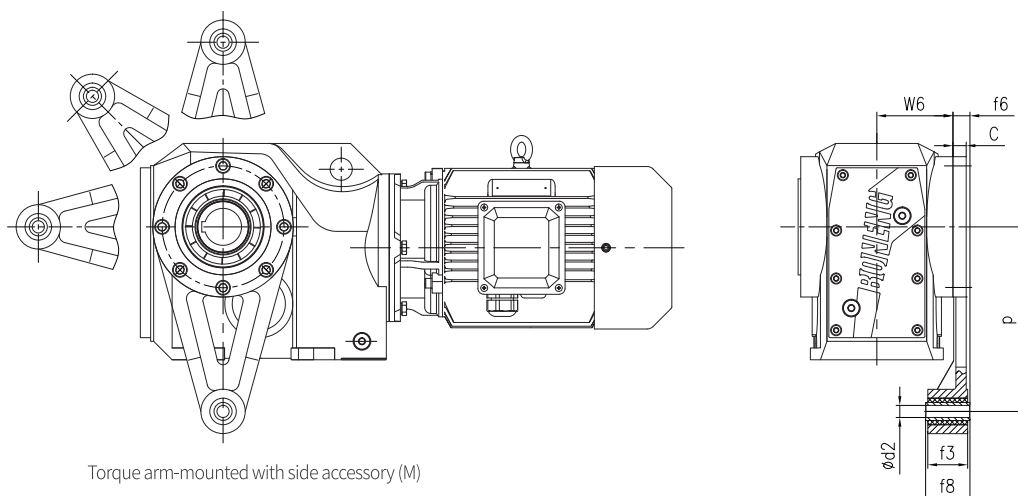
5.AS Input Flange Dimensions



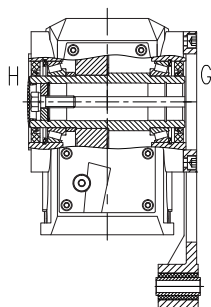
Size	Flange	Range of Ratio	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2
K303	AS040	4-100	4	8H7	30H7	46	78	4	2	9	25	M4	70
	AS055	4-100	4	9H7	40H7	63	78	4	3	10.4	25	M5	70
	AS060	4-100	10	14H7	50H7	70	60	4	5	16.3	30	M5	114
	AS070	4-100	10	14H7	60H7	75	70	4	5	16.3	30	M5	114
	AS080	4-100	10	19H7	70H7	90	80	4	6	21.8	35	M6	120
	AS090	4-100	10	19H7	80H7	100	90	4	6	21.8	40	M6	125
	AS100	4-56	14	19H7	95H7	115	100	4	6	21.8	45	M8	122
K304	AS125	4-56	15	24H7	110H7	130	130	5	8	27	50	M8	133
	AS140	4-56	15	24H7	110H7	145	130	6.5	8	27	55	M8	133
	AS060	4-125	10	14H7	50H7	70	60	4	5	16.3	30	M5	116
	AS070	4-125	10	14H7	60H7	75	70	4	5	16.3	30	M5	116
	AS080	4-125	10	19H7	70H7	90	80	4	6	21.8	35	M6	122
	AS090	4-125	10	19H7	80H7	100	90	4	6	21.8	40	M6	127
K305	AS100	4-80	14	19H7	95H7	115	100	4	6	21.8	45	M8	124
	AS125	4-80	15	24H7	110H7	130	130	5	8	27	50	M8	135
	AS140	4-80	15	24H7	110H7	145	130	6.5	8	27	55	M8	135
	AS160	4-80	15	32H7	130H7	165	155	5	10	35.3	60	M10	190
	AS060	4-112	10	14H7	50H7	70	60	4	5	16.3	30	M5	116
	AS070	4-112	10	14H7	60H7	75	70	4	5	16.3	30	M5	116
	AS080	4-112	10	19H7	70H7	90	80	4	6	21.8	35	M6	122
K306	AS090	4-112	10	19H7	80H7	100	90	4	6	21.8	40	M6	127
	AS100	4-63	14	19H7	95H7	115	100	4	6	21.8	45	M8	124
	AS125	4-63	15	24H7	110H7	130	130	5	8	27	50	M8	135
	AS140	4-63	15	24H7	110H7	145	130	6.5	8	27	55	M8	135
	AS160	4-90	15	32H7	130H7	165	155	5	10	35.3	60	M10	190
	AS180	4-40	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	220
	AS190	4-40	18	38H7	180H7	215	190	6	10	41.3	80	M12	220
K307	AS060	7.1-180	10	14H7	50H7	70	60	4	5	16.3	30	M5	108
	AS070	7.1-180	10	14H7	60H7	75	70	4	5	16.3	30	M5	108
	AS080	7.1-180	10	19H7	70H7	90	80	4	6	21.8	35	M6	114
	AS090	7.1-180	10	19H7	80H7	100	90	4	6	21.8	40	M6	119
	AS100	7.1-112	14	19H7	95H7	115	100	4	6	21.8	45	M8	116
	AS125	7.1-112	15	24H7	110H7	130	130	5	8	27	50	M8	127
	AS140	7.1-112	15	24H7	110H7	145	130	6.5	8	27	55	M8	127
	AS160	7.1-112	15	32H7	130H7	165	155	5	10	35.3	60	M10	180
	AS180	7.1-50	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	210
	AS190	7.1-50	18	38H7	180H7	215	190	6	10	41.3	80	M12	210
	AS240	7.1-50	28	38H7	230H7	265	240	5	10	41.3	80	M12	210

Size	Flange	Range of Ratio	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2
K308	AS070	90-180	10	14H7	60H7	75	70	4	5	16.3	30	M5	105
	AS080	90-180	10	19H7	70H7	90	80	4	6	21.8	35	M6	111
	AS090	90-180	10	19H7	80H7	100	90	4	6	21.8	40	M6	116
	AS100	7.1-160	14	19H7	95H7	115	100	4	6	21.8	45	M8	113
	AS125	7.1-160	15	24H7	110H7	130	130	5	8	27	50	M8	124
	AS140	7.1-160	15	24H7	110H7	145	130	6.5	8	27	55	M8	124
	AS160	7.1-160	15	32H7	130H7	165	155	5	10	35.3	60	M10	170
	AS180	7.1-80	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	203
	AS190	7.1-80	18	38H7	180H7	215	190	6	10	41.3	80	M12	203
	AS240	7.1-80	28	38H7	230H7	265	240	5	10	41.3	80	M12	203
AS260	7.1-80	40	48H7	250H7	300	260	6	14	51.8	110	M16	272	
K309	AS160	7.1-180	15	32H7	130H7	165	155	5	10	35.3	60	M10	171
	AS180	7.1-112	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	202
	AS190	7.1-112	18	38H7	180H7	215	190	6	10	41.3	80	M12	202
	AS240	7.1-112	28	38H7	230H7	265	240	5	10	41.3	80	M12	202
	AS260	7.1-112	40	48H7	250H7	300	260	6	14	51.8	110	M16	271
	AS315	7.1-28	40	55H7	300H7	350	315	6	16	59.3	110	M16	327
K310	AS160	8-180	15	32H7	130H7	165	155	5	10	35.3	60	M10	161
	AS180	8-125	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	189
	AS190	8-125	18	38H7	180H7	215	190	6	10	41.3	80	M12	189
	AS240	8-125	28	38H7	230H7	265	240	5	10	41.3	80	M12	189
	AS260	8-125	40	48H7	250H7	300	260	6	14	51.8	110	M16	258
	AS315	8-100	40	55H7	300H7	350	315	6	16	59.3	110	M16	327
K312	AS180	7.1-140	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	175
	AS190	7.1-140	18	38H7	180H7	215	190	6	10	41.3	80	M12	175
	AS240	7.1-140	28	38H7	230H7	265	240	5	10	41.3	80	M12	175
	AS260	7.1-140	40	48H7	250H7	300	260	6	14	51.8	110	M16	244
	AS315	7.1-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	316
	AS450	7.1-90	30	55H7	350H7	400	450	6	16	59.3	140	M16	343
K315	AS260	10-140	40	48H7	250H7	300	260	6	14	51.8	110	M16	234
	AS315	10-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	298
	AS450	10-90	30	55H7	350H7	400	450	6	16	59.3	140	M16	325
K316	AS260	10-160	40	48H7	250H7	300	260	6	14	51.8	110	M16	234
	AS315	10-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	298
	AS450	10-90	30	55H7	350H7	400	450	6	16	59.3	140	M16	325
K318	AS260	71-160	40	48H7	250H7	300	260	6	14	51.8	110	M16	234
	AS315	10-140	40	55H7	300H7	350	315	6	16	59.3	110	M16	298
	AS450	10-112	30	55H7	350H7	400	450	6	16	59.3	140	M16	325

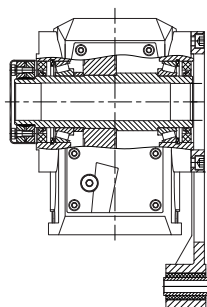
6. Dimensions (Complementary Drawings)



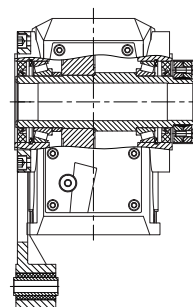
Torque arm-mounted with side accessory (M)



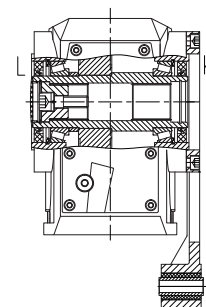
K3**MG Hollow shaft with parallel key
K3**MH Hollow shaft with parallel key



K3**MI Hollow shaft with shrink disk



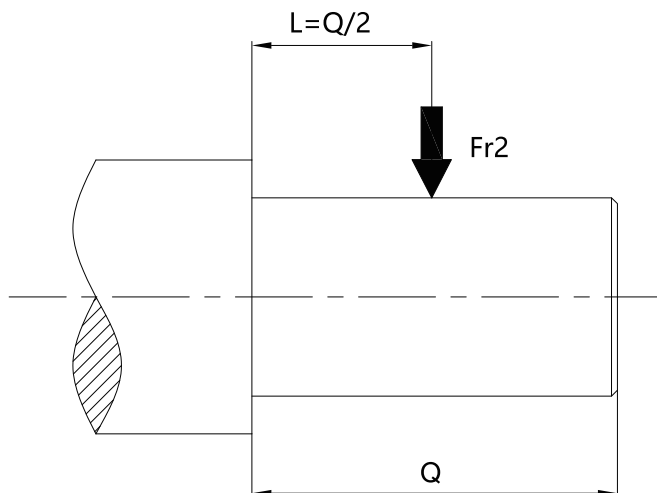
K3**MJ Hollow shaft with shrink disk



K3**MK Hollow shaft with involute spline
K3**ML Hollow shaft with involute spline

Type	K303M	K304M	K305M	K306M	K307M	K308M	K309M	K310M
C	10	15	15	18	18	24	26	30
d2	10.4	10.4	16.4	16.4	16.4	25	25	25
f3	31	31	54	54	54	72	72	92
f6	15	20.5	18.5	22	32.5	28.5	33	50
f8	36	36	60	60	60	80	80	100
P	140	160	200	200	250	310	380	410
W6	58	73	81	88	103	118	148	173

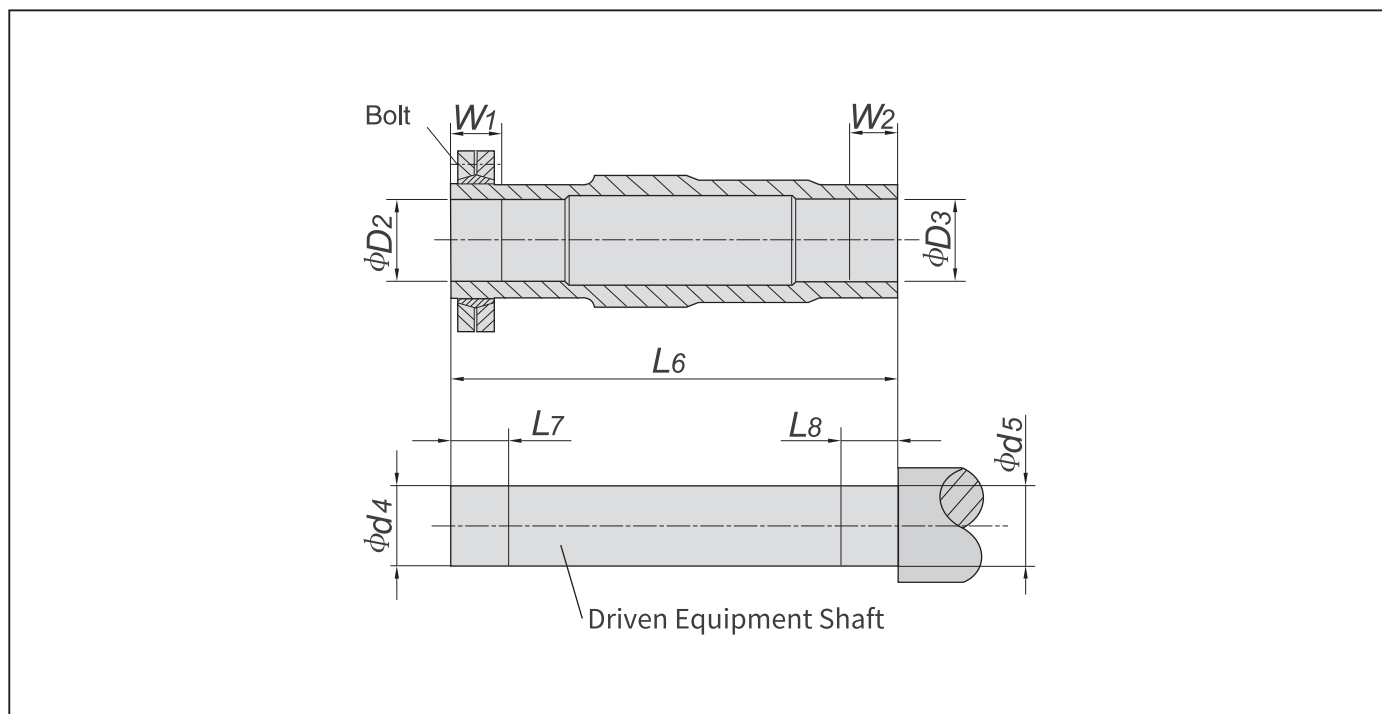
7. Permissible Radial Force of Output Shaft Fr2(N)



n _{2N} (r/min)	Fr ₂ (N)							
	K303	K304	K305	K306	K307	K308	K309	K310
315~425	1466	2430	4330	7715	/	/	/	/
280~315	1600	2650	4720	8410	/	/	/	/
225~280	1750	2890	5150	9165	/	/	/	/
160~225	1899	3150	5610	9990	11135	12150	14220	22140
140~160	2070	3240	5791	10350	12510	12780	14760	23220
125~140	2250	3510	6105	10620	12960	13410	14580	24300
112~125	2340	3348	6088	11070	13590	13320	14470	25200
90~112	2430	3510	6001	10260	13500	13770	15300	19710
80~90	2610	3807	6139	9900	14490	14670	16020	21240
71~80	2799	3960	6204	9720	14130	15120	17190	23490
63~71	2880	4239	6419	9720	13860	16110	18810	26010
56~63	2997	4500	6490	9360	13860	16200	19800	28800
50~56	3150	4770	6650	9270	13860	16650	20970	29700
45~50	3285	5040	6835	9270	13860	17280	22050	31500
35.5~45	3375	5328	7028	9270	13860	19260	23130	33300
31.5~35.5	3960	5328	7028	9270	13860	20520	25470	36450
28~31.5	4194	5328	7028	9270	13860	21150	27900	37980
25~28	4410	5328	7028	9270	13860	22500	29070	39960
22.4~25	4662	5328	7028	9270	13860	23580	30420	41220
20~22.4	4968	5328	7028	9270	13860	24570	32040	43200
18~20	5076	5328	7028	9270	13860	24570	33390	45450
16~18	5076	5328	7028	9270	13860	24570	34920	47700
≤16	5076	5328	7028	9270	13860	24570	36000	51300

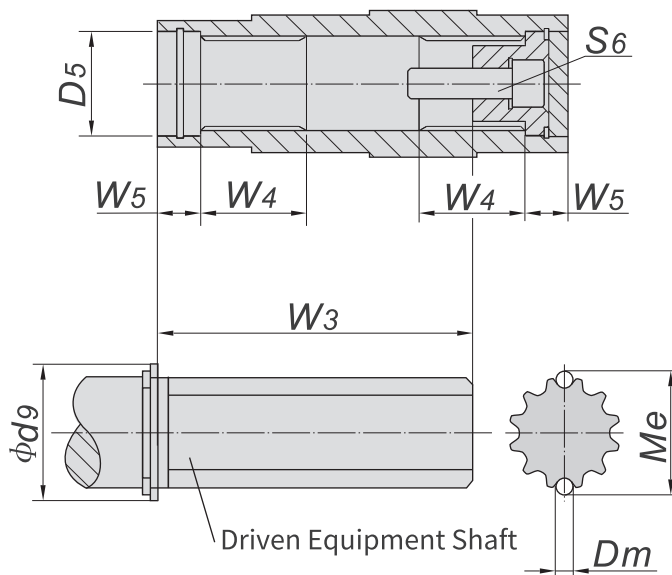
8 Recommended Dimensions for Driven Equipment Shaft (mm)

8.1 Shrink Disk



Size	D2	D3	d4	d5	L6	L7	L8	W1	W2	Shrink Disk Type	Shrink Disk Bolt	Shrink Disk Weight (kg)
K303	30H7	30H7	30h6	30h6	146	35	25	30	20	SP2-44×80	M6	0.6
K304	35H7	35H7	35h6	35h6	177	35	25	30	20	SP2-44×80	M6	0.6
K305	40H7	40H7	40h6	40h6	195	40	30	35	25	SP2-50×90	M6	0.8
K306	40H7	40H7	40h6	40h6	208	43	25	38	20	SP2-50×90	M6	0.8
K307	50H7	50H7	50h6	50h6	241	41	35	36	30	SP2-62×110	M6	1.3
K308	65H7	65H7	65h6	65h6	281	46	45	41	40	SP2-80×145	M8	1.9
K309	75H7	75H7	75h6	75h6	345	60	55	55	50	SP2-90×155	M8	3.3
K310	95H7	95H7	95h6	95h6	405	75	70	65	60	SP2-110×185	M10	5.9

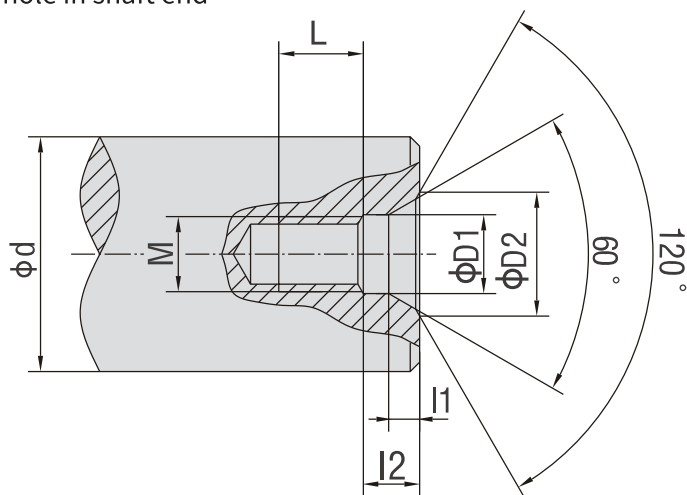
8.2 Involute Spline



Size	Involute spline size DIN 5480 $m \times Z \times \alpha \times D \times 9H$	D_5	D_m	d_9	M_e	W_3	W_4	W_5	S_6
K303	1.25x22x30x30x9H	37	2.75	42	33.03	85	25	18	M10X30
K304	2x16x30x35x9H	37	4	42	38.92	115	32	18	M10X30
K305	2x16x30x35x9H	42	4	47	38.92	125	42	25	M16X40
K306	2x16x30x35x9H	42	4	47	38.92	140	42	25	M16X40
K307	2x24x30x50x9H	55	4	62	54.13	160	52	23	M16X50
K308	2x31x30x65x9H	72	4	82	68.96	180	62	25	M20X60
K309	2x34x30x70x9H	72	4	90	74.15	240	72	25	M20X60
K310	3x27x30x85x9H	90	6	105	91	290	89	26	M20X60

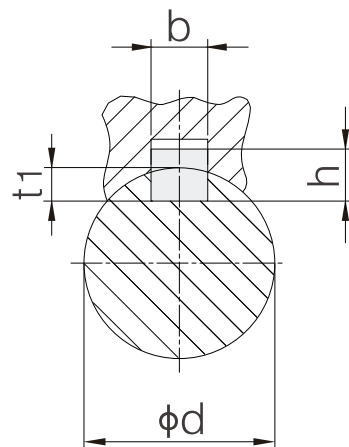
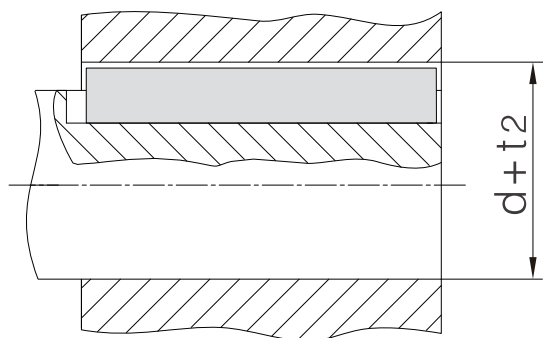
9. Shaft End Centre Hole (mm)

Type C screw central hole in shaft end



d	M	L	I2	I1	D1	D2
$7 < d \leq 10$	M3	10	2.6	1.8	3.2	5.8
$10 < d \leq 13$	M4	10	3.2	2.1	4.3	7.4
$13 < d \leq 16$	M5	10	4	2.4	5.3	8.8
$16 < d \leq 21$	M6	12	5	2.8	6.4	10.5
$21 < d \leq 24$	M8	12	6	3.3	8.4	13.2
$24 < d \leq 30$	M10	15	7.5	3.8	10.5	16.3
$30 < d \leq 38$	M12	20	9.5	4.4	13	19.8
$38 < d \leq 50$	M16	25	12	5.2	17	25.3
$50 < d \leq 85$	M20	30	15	6.4	21	31.3
$85 < d \leq 130$	M24	35	18	8	25	38
$130 < d \leq 225$	M30	45	18	11	31	48

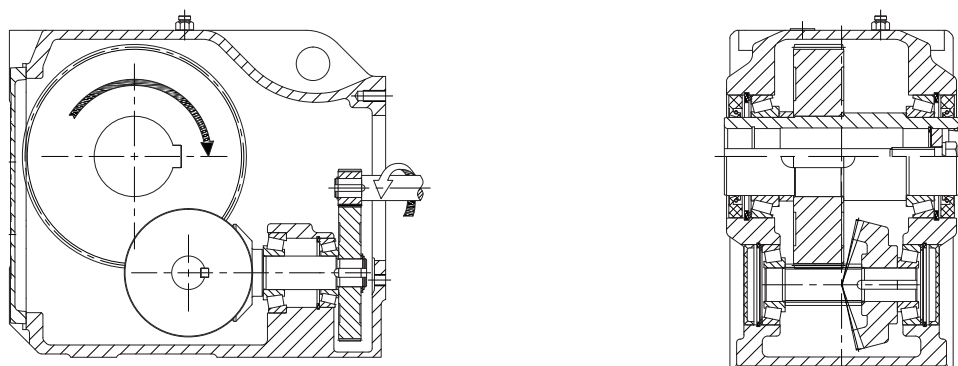
10.Dimension of Parallel Key and Keyway (mm)



d	b	h	t ₁	d + t ₂
8 < d ≤ 10	3	3	1.8	d + 1.4
10 < d ≤ 12	4	4	2.5	d + 1.8
12 < d ≤ 17	5	5	3	d + 2.3
17 < d ≤ 22	6	6	3.5	d + 2.8
22 < d ≤ 30	8	7	4	d + 3.3
30 < d ≤ 38	10	8	5	d + 3.3
38 < d ≤ 44	12	8	5	d + 3.3
44 < d ≤ 50	14	9	5.5	d + 3.8
50 < d ≤ 58	16	10	6	d + 4.3
58 < d ≤ 65	18	11	7	d + 4.4
65 < d ≤ 75	20	12	7.5	d + 4.9
75 < d ≤ 85	22	14	9	d + 5.4
85 < d ≤ 95	25	14	9	d + 5.4
95 < d ≤ 110	28	16	10	d + 6.4
110 < d ≤ 130	32	18	11	d + 7.4
130 < d ≤ 150	36	20	12	d + 8.4
150 < d ≤ 170	40	22	13	d + 9.4
170 < d ≤ 200	45	25	15	d + 10.4
200 < d ≤ 230	50	28	17	d + 11.4
230 < d ≤ 260	56	32	20	d + 12.4

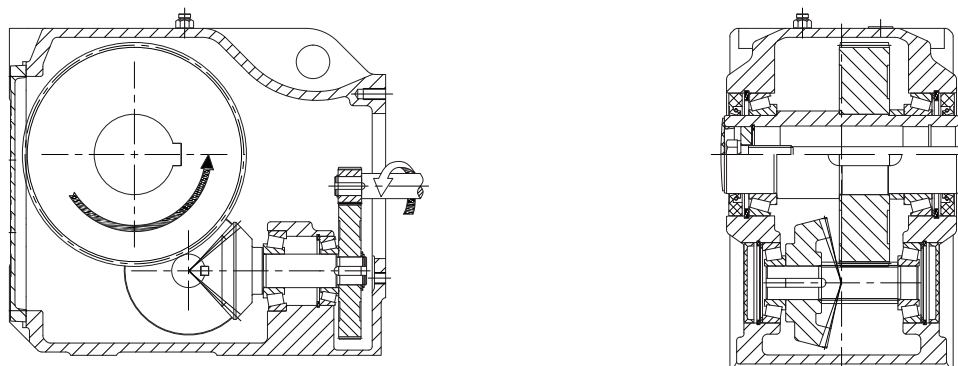
11. Accessories and Specific Configuration

11.1 Conventional Installation of Gear



Standard Installation do not have to be indicated

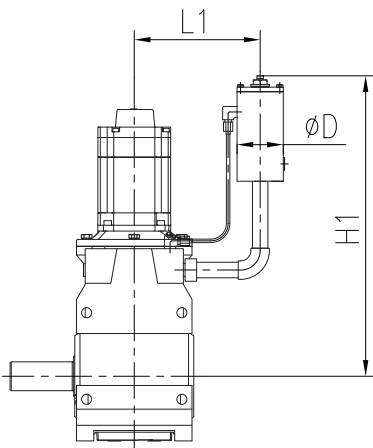
11.2 Unconventional Installation of Gear(Code 1)



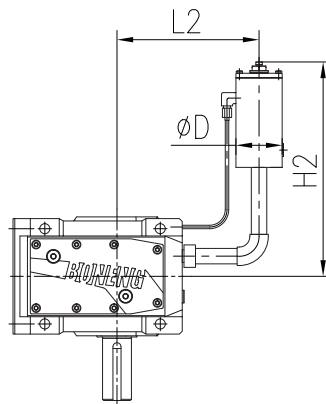
11.3 Oil Compensating Tank (Code 6)

Oil compensating tank lubrication is recommended for gearmotor under working conditions below.

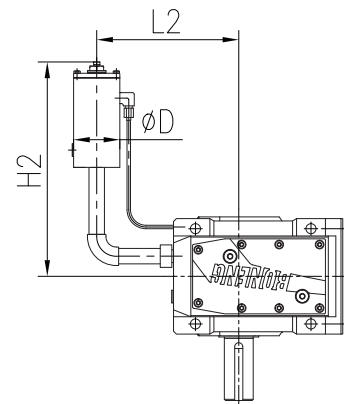
1. Oil compensating tank lubrication is recommended for the gearmotor with D4 installation position and long duration continuous operation.
2. Oil compensating tank lubrication is recommended for the gearmotor with D5 or D6 installation position, output speed $n_2 \leq 15$ r/min and long duration continuous operation.



Installation Position: D4



Installation Position: D5



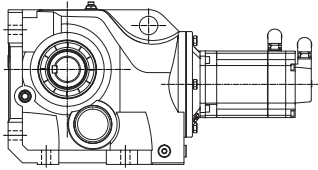
Installation Position: D6

Type	D	L1	H1	L2	H2
K303	42	100	315	170	165
K304	42	115	340	175	170
K305	42	120	345	190	165
K306	42	120	345	200	170
K307	80	160	520	290	270
K308	80	175	585	315	275
K309	80	200	595	340	290
K310	120	270	750	405	405

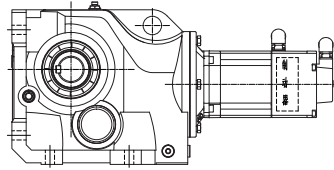
12. Oil (L)

Mounting position Size	D1	D2	D3	D4	D5	D6
K303	0.8	0.8	0.7	0.9	0.8	0.8
K304	1.2	1.1	1.2	1.6	1.3	1.3
K305	2.2	1.7	1.2	2.5	2.1	2.1
K306	2.2	1.6	1.6	2.6	1.9	1.9
K307	2.9	3.9	3.1	5.4	4.5	4.5
K308	5.2	6.6	8	10	8	8
K309	11	12	15	19	15	15
K310	17	21	25	33	25	24

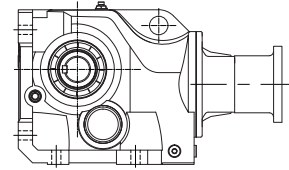
13. Weight



K303~K310+Servo motor (without brake)



K303~K310+Servo motor (with brake)



K303~K318+AS input flange

Weight of Gearbox (kg)

Size	K303	K304	K305	K306	K307	K308
Weight	14	23	32	39	67	108
Size	K309	K310	K312	K315	K316	K318
Weight	174	280	496	759	1300	1688

Weight of MX Directly-connected Servo Motor (kg)

Size	028S	036S	048S	063M	080M	100M
Normal Power (kW)	0.28	0.47	1	2.05	3.98	6.6
Without Brake	2	3	6	16	27	55
With Brake	3	4	7	17	29	60

Weight of AS Input Flange (kg)

Size	AS040	AS055	AS060	AS070	AS080	AS090	AS100	AS125
Weight	3	3	4	5	5	5	6	7
Size	AS140	AS160	AS180	AS190	AS240	AS260	AS315	AS450
Weight	6	13	24	25	30	70	95	112

Servo Drive

14.Servo drive overview

AX precision series servo drive is modular designed for high-performance servo applications, consisting of a replaceable control module, a power module adapted to different power motors, and some optional accessories. AX series servo drive provides users with richer options for system design and application through its flexible modularization feature.

AX servo drive can achieve accurate position, speed, and torque control when combined with the MX permanent magnet synchronous servo motor, as well as drive the Boneng asynchronous motor to achieve accurate asynchronous servo control.

The AX servo drive consists of three parts: higher-level control system(OP25/PC), CM55 and PM26.



Operation panel(OP25) or desktop software BongDrivesoft: operation panel and desktop software can provide users with convenient and efficient methods for parameters configuration. The OP25 and BonengDrivesoft can display in English and Chinese, and the BonengDrivesoft can also provide users with advanced functions such as oscilloscope, condition monitoring and diagnosis, and etc.

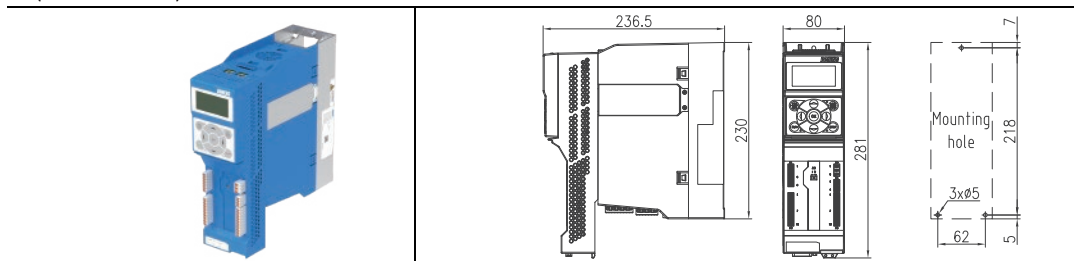
Control module: The control module contains a wealth of control interfaces, input and output terminals, analog signals, and can support communication bus control, which control the motor connected through the Power module.

Power module(PM26):The power module has a power range from 0.75kW to 132kW, supports a variety of modules, which makes spindle speed adjustment easy and flexible. In addition, complete driver and motor protection functions are available for the power module.

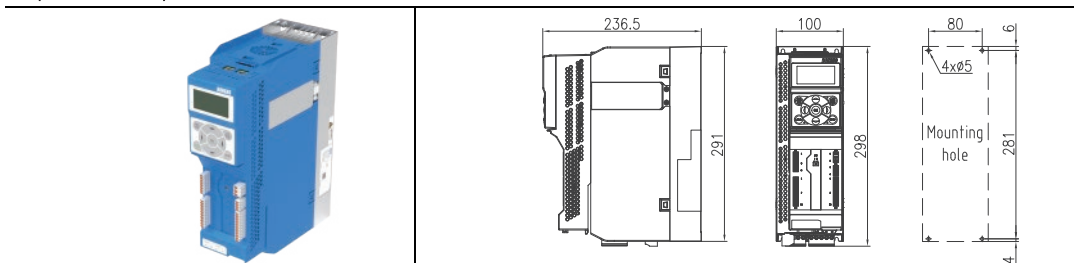
15. Drive full machine mounting size

The overall appearance and installation dimension of OP25+CM55+PM26 combination, B1–B6 power range, with unit: mm.

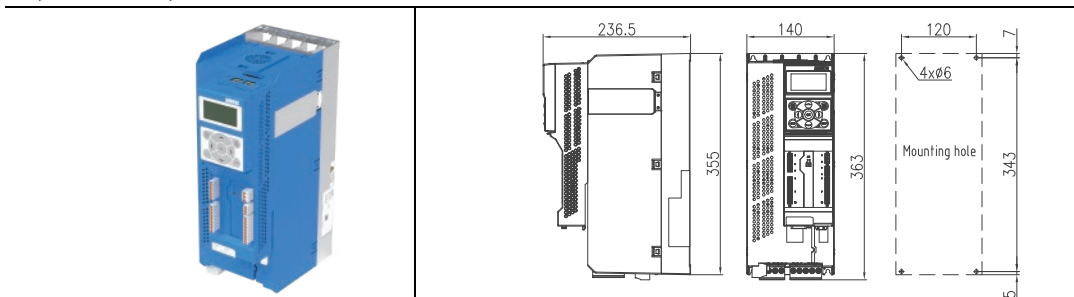
B1(0.75kW-3kW):



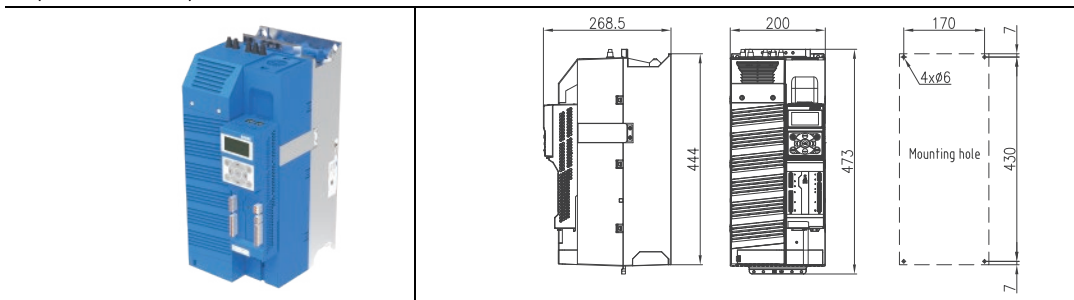
B2(4kW-7.5kW)



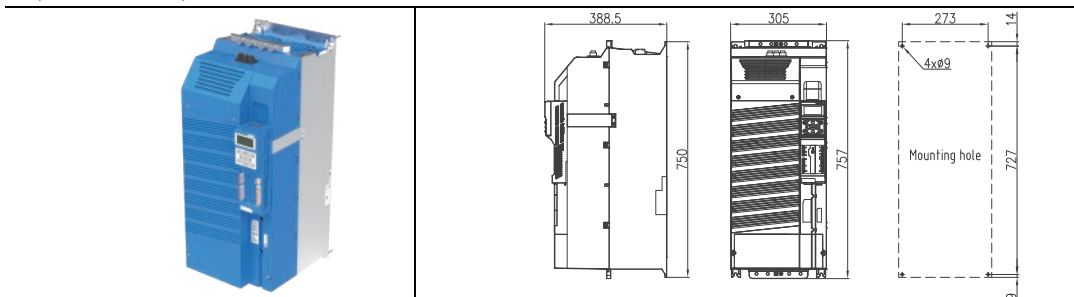
B3(11kW-15kW)



B4(18.5kW-37kW)



B6(45kW-132kW)



16. Control module

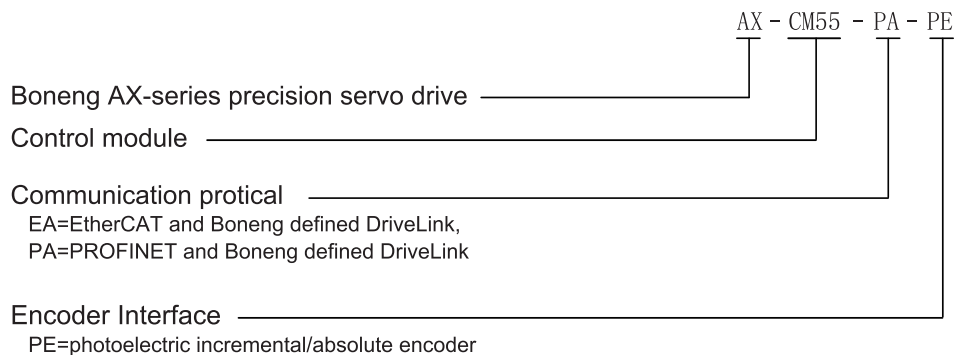
16.1 General information

The control module CM55 is specially designed for servo system applications, supporting PROFINET and EtherCAT bus, can be chosen by users according to their own communication systems.



CM55 control module

16.2 Designation rules and nameplate for control module



Control module order number:

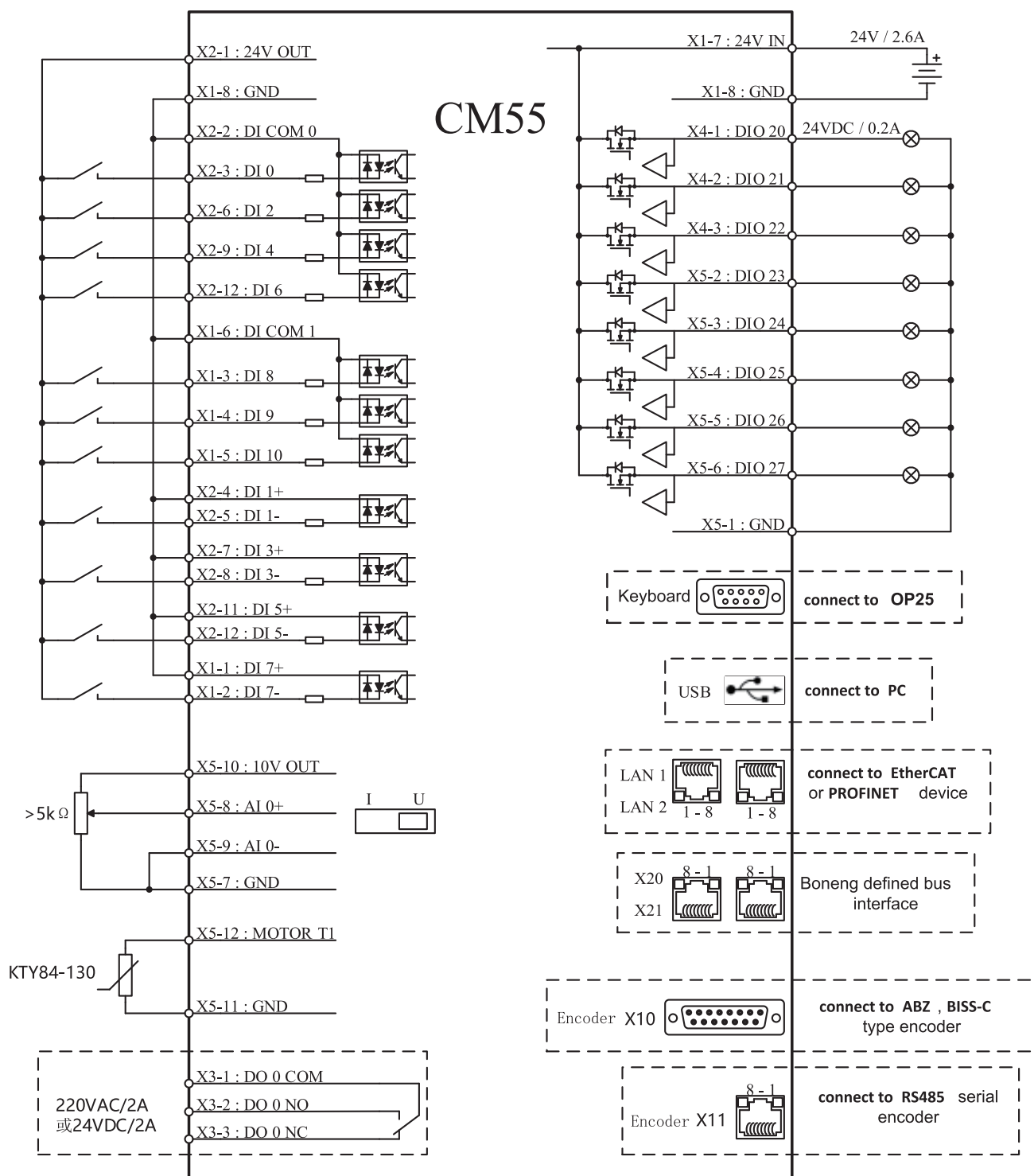
Model	Interface type description
AX-CM55-EA-PE	Support EtherCAT and Boneng defined DriveLink, incremental/absolute optical encoder.
AX-CM55-PA-PE	Support PROFINET and Boneng defined DriveLink, incremental/absolute optical encoder.

16.3 Technical date

Functions	Technical data	
Bus interface	AX-CM55-PA-PE	<ul style="list-style-type: none"> • PROFINET, DriveLink bus • RJ45 interface
	AX-CM55-EA-PE	<ul style="list-style-type: none"> • EtherCAT, DriveLink bus • RJ45 interface
Power supply	By power module	<ul style="list-style-type: none"> • Installed to PM26
	By external terminals	<ul style="list-style-type: none"> • Voltage range: DC 20.8 ~ 28.8V • Maximum current: 2.6A
Power output	+24V output	<ul style="list-style-type: none"> • Voltage range: DC 18V ~ 26.8V • Maximum current: 200mA
	+10V output	<ul style="list-style-type: none"> • Voltage range: DC 9.5V ~ 10.5V • Maximum current: 40mA
	DB15 encoder power supply	<ul style="list-style-type: none"> • Voltage: DC 5V or DC 24V • Maximum current: 350mA
	RJ45 encoder power supply	<ul style="list-style-type: none"> • Voltage: DC 5V • Maximum current: 200mA
Digital input	11 (DI0~DI10)	<ul style="list-style-type: none"> • Differential inputs: DI1, DI3, DI5, DI7 • Single inputs: DI0, DI2, DI4, DI6 share DICOM0 • Single inputs: DI8, DI9, DI10 share DICOM1 • Electrical isolation • Support Source and Sink mode • Voltage: DC 24V, AC 36V • Level "1" voltage: >11V • Level "0" voltage: <5V • 24V typical current: 4mA • Response time: 6ms(Including software filter)
Digital output	1 relay (DO0)	<ul style="list-style-type: none"> • Voltage: DC 24V, AC 220V • Continous current: 2A • Switching current: 2A • Contact type: 1 nomally open and 1 close
Bidirectional digital input and output	8 (DIO20~DIO27)	<ul style="list-style-type: none"> • Voltage: DC 30V maximum • Current: output 200mA maximum, 24V input typical 4mA • Frequency: 100Hz maximum • Input level "1" voltage: >15V • Input level "0" voltage: <5V • Non-electrically isolated • 24V power supply is needed for DIO
Analog input	1 (AI0)	<ul style="list-style-type: none"> • Differential input • Dip switch to choose voltage and current mode • Voltage range(voltage mode): -10V ~ +10V, 0V ~ 10V • Current range(current mode): 0mA ~ 20mA, 4mA ~ 20mA • Internal resistance in current mode: 250 Ω • Response time: 2ms(including software filter) • Precision: ±1%
Temperature sensor	2	<ul style="list-style-type: none"> • Respectively at the X5and X11 • Support KTY84-130, PTC
Encoder interface	ABZ	<ul style="list-style-type: none"> • 24V single-ended signal, 5V and 24V differential signal • Input frequency: 250kHz maximum • Disconnection detection: only support differential mode • Maximum wire length: 5V differential mode: 100m 24V open-collector type: 50m 24V push-pull: 100m 24V differential mode: 300m
	BISS-C	<ul style="list-style-type: none"> • Baud rate: 4 Mbps maximum • Maximum wire length: 100m at 500 kbps
	RS485	<ul style="list-style-type: none"> • Baud rate: 2.5 Mbps maximum • Maximum wire length: 100m at 500kbps
USB interface	1	<ul style="list-style-type: none"> • USB 2.0 • Mini-B
Status LEDs	2 two-color LEDs	<ul style="list-style-type: none"> • RDY LED: red and green • BF LED: red and green
	3 single-color LEDs	<ul style="list-style-type: none"> • SAFE LED: yellow • LNK1 LED: green • LNK2 LED: green
Keyboard interface	OP25 supported	<ul style="list-style-type: none"> • Install directly or external with extension cable
Use ambient temperature	-20°C ~ +50°C	
Storage temperature	-40°C ~ +70°C	
Enviroment humidity	<95%	Condensation prohibited
Pollution	IEC 61800-5-1	Pollution degree: level 2
Electromagnetic compatibility	IEC 61800-3	

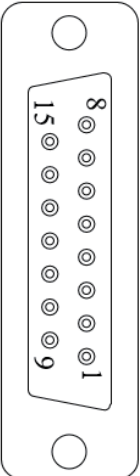
16.4 Control module wiring

16.4.1 Control module wiring example:

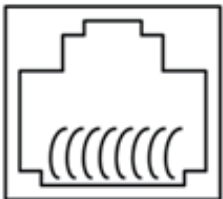


16.4.2 Encoder interface

a) Encoder interface(X10) signals

	Pin.	signal description
	1	BISS-C data+
	2	BISS-C clock+
	3	BISS-C clock-
	4	Encoder power supply (5V or 24V)
	5	Encoder power supply (5V or 24V)
	6	Encoder power detection input
	7	Power ground
	8	BISS-C data-
	9	Encoder power detection ground
	10	Incremental type Z+
	11	Incremental type Z-
	12	Incremental type B-
	13	Incremental type B+
	14	Incremental type A-
15	Incremental type A+	

b) Encoder interface(X11) signals

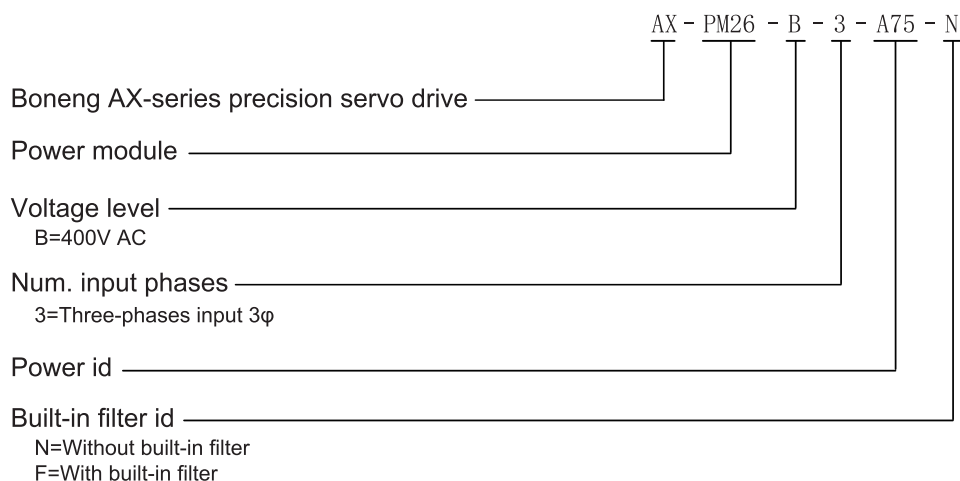
	Pin.	Signal description
	1	KTY84-130/PTC input
	2	KTY84-130/PTC ground
	3	—
	4	RS485 signal B
	5	RS485 signal A
	6	—
	7	Encoder power supply(5V)
8	Power ground	

17. Power module

17.1 General information

The power module AX-PM26 has a power range from 0.75 kW to 132 kW, can be adapted to the MX-series motor, which makes it easily for users to choose motor and AX-PM26(just select as what recommended in the default model matching table) without worrying about matching problems. The AX-PM26 can be matched to AX-CM55 to form a precisely positioned servo drive.

17.2 Designation rules and nameplate for power module

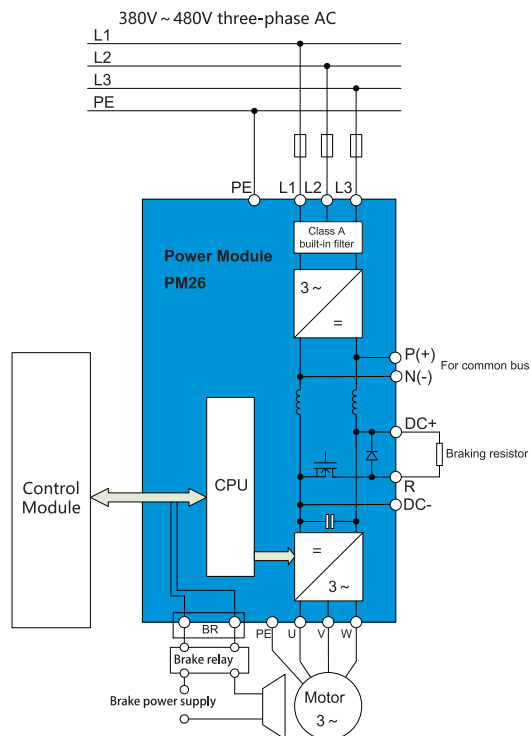


Power module order number:

Rated data		Dimension type	Model
Rated Power (kW)	Rated Current (A)		No built-in filter
0.75	1.25	B1	AX-PM26-B3A75-N
1.5	2.42		AX-PM26-B3B15-N
2.2	3.43		AX-PM26-B3B22-N
3	4.51		AX-PM26-B3B30-N
4	5.93	B2	AX-PM26-B3B40-N
5.5	7.69		AX-PM26-B3B55-N
7.5	10.53		AX-PM26-B3B75-N
11	15.2	B3	AX-PM26-B3C11-N
15	18.71		AX-PM26-B3C15-N
18.5	22.22	B4	AX-PM26-B3C18-N
22	26.32		AX-PM26-B3C22-N
30	35.09		AX-PM26-B3C30-N
37	43.86		AX-PM26-B3C37-N
45	52.63	B6	AX-PM26-B3C45-N
55	64.33		AX-PM26-B3C55-N
75	84.79		AX-PM26-B3C75-N
90	104.09		AX-PM26-B3C90-N
110	119.88		AX-PM26-B3D11-N
132	146.2		AX-PM26-B3D13-N

Note: PM26 with built-in filter is out of stock, contact us if need.

17.3 Power module wiring



17.4 General technical data for power module

PM26 power module(general parameters)	
Voltage input	380~480V, 3AC, ±10%
Input frequency	47~63Hz
Default carrier frequency	Frequency conversion mode: 4 kHz for 90 kW and below; 2 kHz for 110 kW and above.
	Servo mode: 8 kHz for 90 kW and below; 4 kHz for 110kWand above.
Power factor	0.95
Drive efficiency	95~97%
Overload capacity	Under 30s periodic impact load, can withstand 3 times the overload for 3s.
Electromagnetic compatibility	Optional A-level and B-level filters complying with EN 55011.
Optional braking method	●DC brake DC current braking, with limited braking force.
	●External brake unit External braking unit on DC bus/external feedback unit braking.
	●Built-in braking chopper, external resistor is required.
Protection level	IP20
Use ambient temperature	-20~+40℃: no derating; +40℃~+50℃: decrease by 1.5% for every 1 ℃ increase; +50℃~+60℃: decrease by 5% for every 1 ℃ increase.
Storage temperature	-40~+70℃
Relative humidity	<95% RH, no condensation
Cooling method	Internal air cooling Built-in fan for forced air cooling.
Installation altitude	No derating within 1000m; 1000m~4000m: decrease by 1% for every 100m rise in altitude.
Standard SCCR	Less than 100kA
Protective function	●Under voltage
	●Over voltage
	●Overload
	●Ground fault
	●Short-circuit
	●Motor braking protection
	●Motor over temperature
	●Output phase loss
●Inverter over temperature	

17.5 Detailed technical parameters

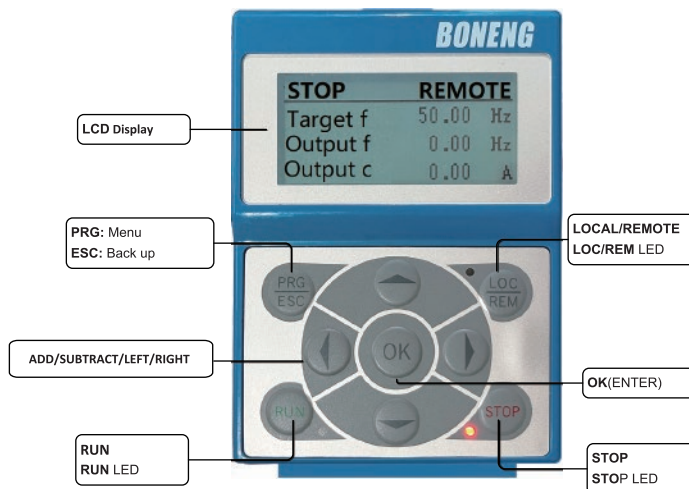
Incoming line voltage 380~480V 3AC										
Technical data		AX-PM26-B3A75	AX-PM26-B3B15	AX-PM26-B3B22	AX-PM26-B3B30	AX-PM26-B3B40	AX-PM26-B3B55	AX-PM26-B3B75	AX-PM26-B3C11	AX-PM26-B3C15
Rated output power(kW)		0.75	1.5	2.2	3	4	5.5	7.5	11	15
Rated output current	With incoming line reactor(A)	2.3	4.3	6.1	8	10.4	15.3	18.7	26	33
	Without incoming line reactor(A)	2.6	4.9	7.6	10.2	13.4	17.2	21.9	32	39
Rated output current(A)		1.25	2.42	3.43	4.51	5.93	7.69	10.53	15.2	18.71
Efficiency(η)		>0.95				>0.95			>0.95	
Power loss(kW)		0.1	0.11	0.14	0.16	0.18	0.24	0.3	0.4	
Cooling air requirement(m ³ /s)		0.005			0.024	0.024	0.055		0.055	
Noise level(dB(A))		<40				<50			<40	
Interface with control unit		1				1			1	
Maximum cable length of braking resistor(m)		15				15			15	
Power supply wiring	L1、L2、L3	Screw terminal				Screw terminal			Screw terminal	
	Cable sectional Area(mm ²)	1~2.5				2.5~6			4~10	
Motor wiring	U、V、W	Screw terminal				Screw terminal			Screw terminal	
	Cable sectional Area(mm ²)	1~2.5				2.5~6			4~10	
DC bus connection (connection of braking resistor)	DC+、DC-、R	Screw terminal				Screw terminal			Screw terminal	
	Cable sectional Area(mm ²)	1~2.5				2.5~6			4~10	
PE connection		M4 screws on the housing				M4 screws on the housing			M4 screws on the housing	
Maximum motor cable length	Shielded cable(m)	50				50			50	
	Unshielded cable(m)	100				100			100	
Protection level		IP20				IP20			IP20	
Dimensions		B1				B2			B3	
Weight(kg)		1.7				2.8			7	

AX-PM26-B3C18	AX-PM26-B3C22	AX-PM26-B3C30	AX-PM26-B3C37	AX-PM26-B3C45	AX-PM26-B3C55	AX-PM26-B3C75	AX-PM26-B3C90	AX-PM26-B3D11	AX-PM26-B3D13
18.5	22	30	37	45	55	75	90	110	132
39	46	63	78	86	104	140	172	198	242
46	53	73	88	78	94	117	154	189	218
22.22	26.32	35.09	43.86	52.63	64.33	84.79	104.09	119.88	146.2
>0.95				>0.95					
0.5	0.7	1	1.3	1.3	1.67	1.93	2.48	2.3	3.02
0.055		2x0.055		0.083		0.153			
<40		<50		<75					
1				1					
15				15					
Screw terminal				Cable termination					
4~10	6~25			35~2x120					
Screw terminal				Cable termination					
4~10	6~25			35~2x120					
Screw terminal				Screw terminal					
4~10	6~25			25~70					
M5 screws on the housing				Cable termination					
50				50					
100				100					
IP20				IP20					
B4				B6					
16				65					

18. Operation panel

18.1 General information

The AX-series drive can be debugged with either PC-Software(BonengDrivesoft) or Operation Panel(OP25). The operation Panel(OP25) can make drive debugging and diagnosis easier and more flexible.



The Operation Panel order number is: A1-OP25.

19.Options

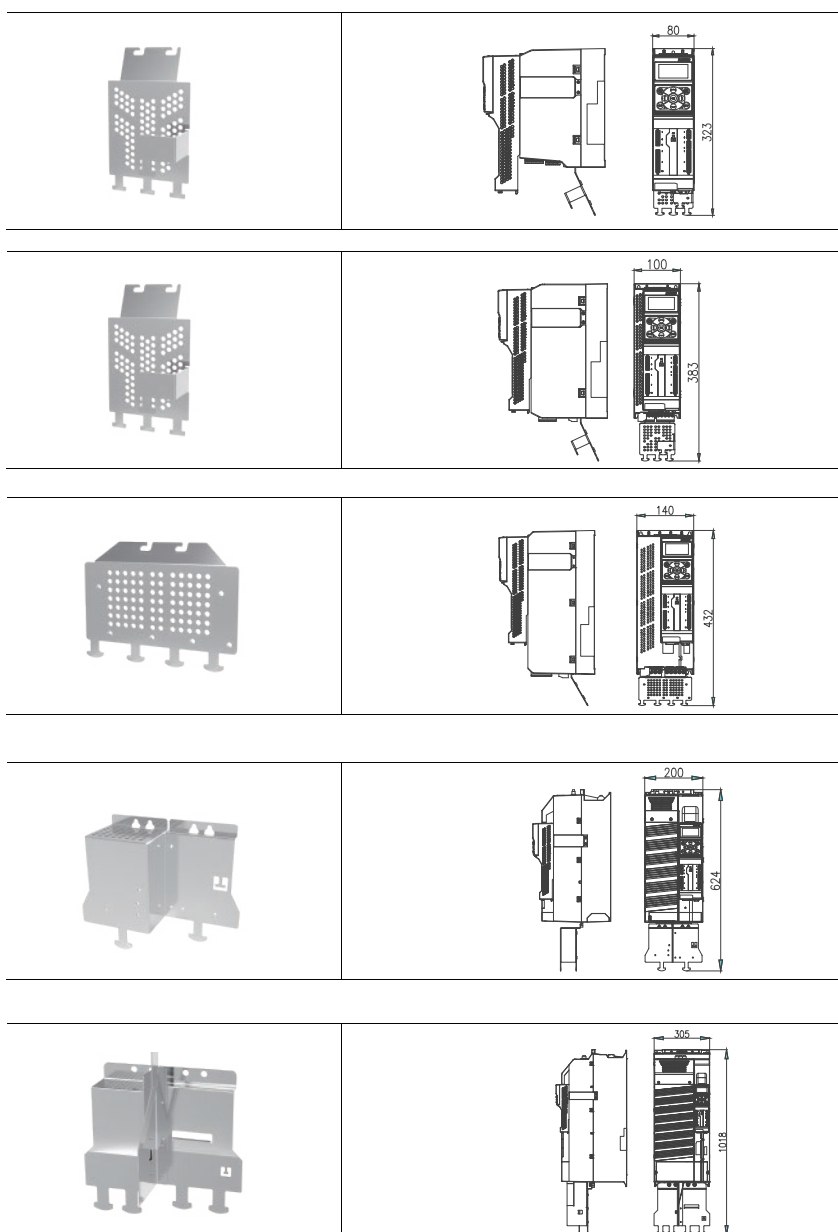
19.1 Shielding components

The AX-series drive can be debugged with either PC-Software(BonengDrivesoft) or Operation Panel(OP25). The operation Panel(OP25) can make drive debugging and diagnosis easier and more flexible.

Order number :

Dimension type	Model
B1	A1-H06-B1
B2	
B3	A1-H06-B3
B4	A1-H06-B4
B6	A1-H06-B6

Shielding component's outline and dimension:



19.2 Incoming line reactors

An incoming line reactor is required and needful to prevent the drive from being disturbed by excessive harmonic currents, and improve the Input side power factor, when the system has a high failure rate. In addition, the incoming line reactor can limit the line harmonics to allowable values to ensure the drive's expected service life, when the overload occurs. The recommended model of optional incoming line reactors for 400V–50/60 Hz AX–series servo drives are listed below:

Dimension types	Drives		Recommended parameters of reactors		Order number
	Without built-in filter		Rated current (A)	Rated inductance (A)	
B1	AX-PM26-B3A75-N		2.6	5.9	A1-H12-TB280
	AX-PM26-B3B15-N		4.9	3.1	A1-H12-TB280
	AX-PM26-B3B22-N		7.1	2.2	A1-H12-TB200
	AX-PM26-B3B30-N		9.2	1.7	A1-H12-TB140
B2	AX-PM26-B3B40-N		12.2	1.3	A1-H12-TA930
	AX-PM26-B3B55-N		15.8	1	A1-H12-TA700
	AX-PM26-B3B75-N		21.6	0.8	A1-H12-TA700
B3	AX-PM26-B3C11-N		31.2	0.5	A1-H12-TA470
	AX-PM26-B3C15-N		38.4	0.4	A1-H12-TA350
B4	AX-PM26-B3C18-N		45.6	0.5	A1-H12-TA280
	AX-PM26-B3C22-N		54	0.4	A1-H12-TA240
	AX-PM26-B3C30-N		72	0.3	A1-H12-TA160
	AX-PM26-B3C37-N		90	0.2	A1-H12-TA160
B6	AX-PM26-B3C45-N		120	0.117	A1-H12-TB120
	AX-PM26-B3C55-N		150	0.094	A1-H12-TA095
	AX-PM26-B3C75-N		200	0.07	A1-H12-TA070
	AX-PM26-B3C90-N		250	0.056	A1-H12-TA056
	AX-PM26-B3D11-N		250	0.056	A1-H12-TA056
	AX-PM26-B3D13-N		290	0.048	A1-H12-TA048

19.3 Incoming filter

The function of the incoming line filter is to suppress the electromagnetic interference transmitted from/to the drive to/from the public power supply network through the power supply line. When use it, please choose recommended drive specific line filter, and install it as close to the input end of the drive as possible. The recommended types of incoming line filter for 400V–50/60 Hz AX–series servo drives are as follows:

Dimension types	Drives		EMC filter	Order number
	Without built-in filter		Rated current (A)	
B1	AX-PM26-B3A75-N		2.9	A1-H11-A-C10
	AX-PM26-B3B15-N		5.5	A1-H11-A-C10
	AX-PM26-B3B22-N		7.7	A1-H11-A-C10
	AX-PM26-B3B30-N		10.1	A1-H11-A-C10
B2	AX-PM26-B3B40-N		13.3	A1-H11-A-C20
	AX-PM26-B3B55-N		17.2	A1-H11-A-C20
	AX-PM26-B3B75-N		22.2	A1-H11-A-C30
B3	AX-PM26-B3C11-N		32.6	A1-H11-A-C36
	AX-PM26-B3C15-N		39.9	A1-H11-A-C50
B4	AX-PM26-B3C18-N		36	A1-H11-A-C50
	AX-PM26-B3C22-N		42	A1-H11-A-C50
	AX-PM26-B3C30-N		57	A1-H11-A-C65
	AX-PM26-B3C37-N		70	A1-H11-A-C80
B6	AX-PM26-B3C45-N		100	A1-H11-A-D10
	AX-PM26-B3C55-N		130	A1-H11-A-D13
	AX-PM26-B3C75-N		150	A1-H11-A-D15
	AX-PM26-B3C90-N		180	A1-H11-A-D18
	AX-PM26-B3D11-N		200	A1-H11-A-D20
	AX-PM26-B3D13-N		250	A1-H11-A-D25

19.4 Outlet reactor

When the motor is more than 50m away from the drive, due to the parasitic capacitance effect of the long cable to the ground, the leakage current will become too large to trigger the over-current fault to protect the drive. To avoid this case and prevent motors from being damaged, a outlet reactor can be used. Because the outlet reactor can reduce the voltage applied to the motor windings and the additional load that capacitive charge/discharge current added to the power module when long cable used. The recommended model of optional Outlet Reactor for 400V–50/60 Hz AX-series servo drives are as follows:

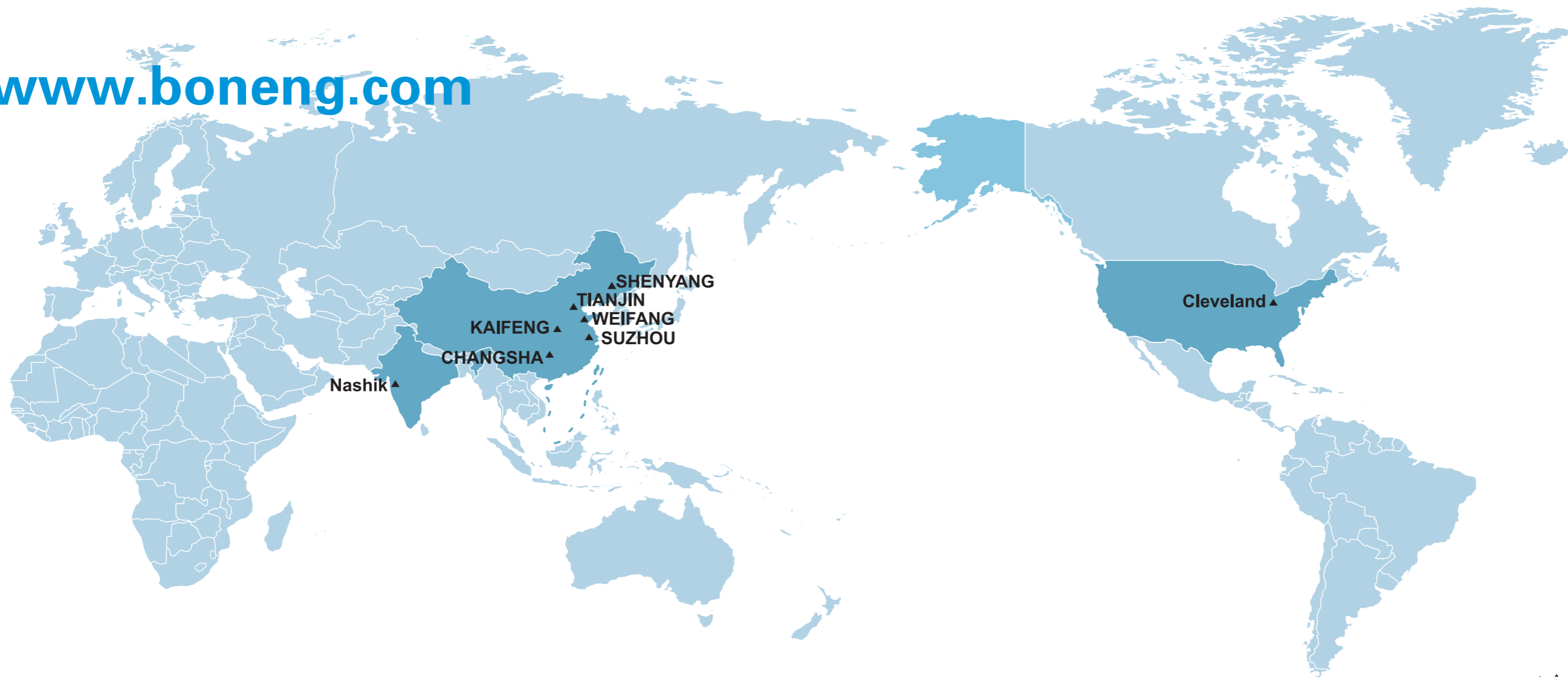
Drives		Outlet reactor		Order number
Dimension tyoes	Without built-in filter	Rated current (A)	Rated inductance (mH)	
B1	AX-PM26-B3A75-N	2.6	3.2	A1-H13-TB140
	AX-PM26-B3B15-N	4.9	1.7	A1-H13-TB140
	AX-PM26-B3B22-N	7.1	1.2	A1-H13-TB100
	AX-PM26-B3B30-N	9.2	0.9	A1-H13-TA700
B2	AX-PM26-B3B40-N	12.2	0.7	A1-H13-TA470
	AX-PM26-B3B55-N	15.8	0.5	A1-H13-TA350
	AX-PM26-B3B75-N	21.6	0.4	A1-H13-TA230
B3	AX-PM26-B3C11-N	31.2	0.3	A1-H13-TA180
	AX-PM26-B3C15-N	38.4	0.2	A1-H13-TA180
B4	AX-PM26-B3C18-N	45.6	0.2	A1-H13-TA140
	AX-PM26-B3C22-N	54	0.2	A1-H13-TA120
	AX-PM26-B3C30-N	72	0.1	A1-H13-TA087
	AX-PM26-B3C37-N	90	0.1	A1-H13-TA078
B6	AX-PM26-B3C45-N	120	0.058	A1-H13-TA058
	AX-PM26-B3C55-N	150	0.047	A1-H13-TA047
	AX-PM26-B3C75-N	200	0.035	A1-H13-TA035
	AX-PM26-B3C90-N	250	0.028	A1-H13-TA028
	AX-PM26-B3D11-N	250	0.028	A1-H13-TA028
	AX-PM26-B3D13-N	290	0.024	A1-H13-TA024

19.5 Braking Resistor

The braking resistor is used to quickly brake the load with large moment of inertia. When the load and motor brake, the regenerative energy converted from kinetic energy will be returned to the driver, and then the DC bus voltage will be raised. The braking resistor is installed to consume almost all of this part of energy to keep the DC bus voltage level. The recommended model of optional Braking Resistor for 400V–50/60 Hz AX-series servo drives are as follows:

Frame size	Power module		Minimum allowable resistance value for the brake resistor	Recommend value		BONENG Type	
	Article number without filter	Article number with filter		Power (W)	Resistance (Ω)	Article number	Equivalent brake resistor
B1	AX-PM26-B3A75-N	AX-PM26-B3A75-F	374Ω	60	750	A1-H02-A06-K-D75	60W 750Ω
	AX-PM26-B3B15-N	AX-PM26-B3B15-F	374Ω	80	390	A1-H02-A08-K-D39	80W 390Ω
	AX-PM26-B3B22-N	AX-PM26-B3B22-F	140Ω	150	180	A1-H02-A15-K-D18	150W 180Ω
	AX-PM26-B3B30-N	AX-PM26-B3B30-F	140Ω	150	180	A1-H02-A15-K-D18	150W 180Ω
B2	AX-PM26-B3B40-N	AX-PM26-B3B40-F	75Ω	300	100	A1-H02-A30-K-D10	300W 100Ω
	AX-PM26-B3B55-N	AX-PM26-B3B55-F	75Ω	300	100	A1-H02-A30-K-D10	300W 100Ω
	AX-PM26-B3B75-N	AX-PM26-B3B75-F	75Ω	400	75	A1-H02-A40-K-C75	400W 75Ω
B3	AX-PM26-B3C11-N	AX-PM26-B3C11-F	30Ω	800	36	A1-H02-A80-K-C36	800W 36Ω
	AX-PM26-B3C15-N	AX-PM26-B3C15-F	30Ω	800	36	A1-H02-A80-K-C36	800W 36Ω
B4	AX-PM26-B3C18-N	AX-PM26-B3C18-F	27Ω	1000	27	A1-H02-B10-K-C27	1000W 27Ω
	AX-PM26-B3C22-N	AX-PM26-B3C22-F	27Ω	1000	27	A1-H02-B10-K-C27	1000W 27Ω
	AX-PM26-B3C30-N	AX-PM26-B3C30-F	15Ω	2000	15	A1-H02-B20-K-C15	2000W 15Ω
	AX-PM26-B3C37-N	AX-PM26-B3C37-F	15Ω	2000	15	A1-H02-B20-K-C15	2000W 15Ω
B6	AX-PM26-B3C45-N	AX-PM26-B3C45-F	10Ω	3000	10	A1-H02-B30-K-C10	3000W 10Ω
	AX-PM26-B3C55-N	AX-PM26-B3C55-F	10Ω	3000	10	A1-H02-B30-K-C10	3000W 10Ω
	AX-PM26-B3C75-N	AX-PM26-B3C75-F	7.1Ω	4000	7.5	A1-H02-B40-K-B75	4000W 7.5Ω
	AX-PM26-B3C90-N	AX-PM26-B3C90-F	7.1Ω	4000	7.5	A1-H02-B40-K-B75	4000W 7.5Ω
	AX-PM26-B3D11-N	AX-PM26-B3D11-F	5Ω	6000	5	A1-H02-B60-K-B50	6000W 5Ω
	AX-PM26-B3D13-N	AX-PM26-B3D13-F	5Ω	6000	5	A1-H02-B60-K-B50	6000W 5Ω

Along with the technology advancedet.,the product of the manual of Boneng will be changed,please forgive.



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