

AC Servo Motor

Pilot From small to large Size

0.08KW to 200KW



Permanent magnet Synchronous Servo Motor

& Induction Asynchronous Servo Motor

High performance Servo drive System



GOLDEN AGE



Preface

About Us

Here at Gold-age Motor Technology Corp. Ltd. we specialize in a wide range of products. These products include high performance GK6 series AC servo motors, GM7 series AC VF servo (main spindle) motors and servo motor drives. Our motors are used in a wide range of applications including machine tools, textile machines, printing machines, machines for manufacturing building materials, robotics, radar systems and artillery, etc. We specialize in custom design and engineered motors to suit specific applications. If you are looking for a custom product please contact our knowledgeable engineers.

Golden Age Experience

They will be able to lead you from the initial development to finalization of your specific needs. Our years of experience and expertise in motor development mean fast results. Our design phase to production phase is superior in the industry! Also note that each and every one of our motors is available with a wide range of customer specified options. As you browse through our website please take the time to view the detailed information on our motors in PDF format. If you need more information feel free to contact us by telephone or by e-mail. We look forward to assisting you with your questions!

Contact with Golden Age

From this catalogue, you can get only Golden Age standard Permanent magnet synchronous servo motor Information. Really, we can supply very wide range AC servo motors, The Power can up to 200KW. The speed can up to 15000rpm. So, If you have any Idea out of the catalogue range, please contact with us:

Shanghai Golden Age Motor technology Co. Ltd

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General

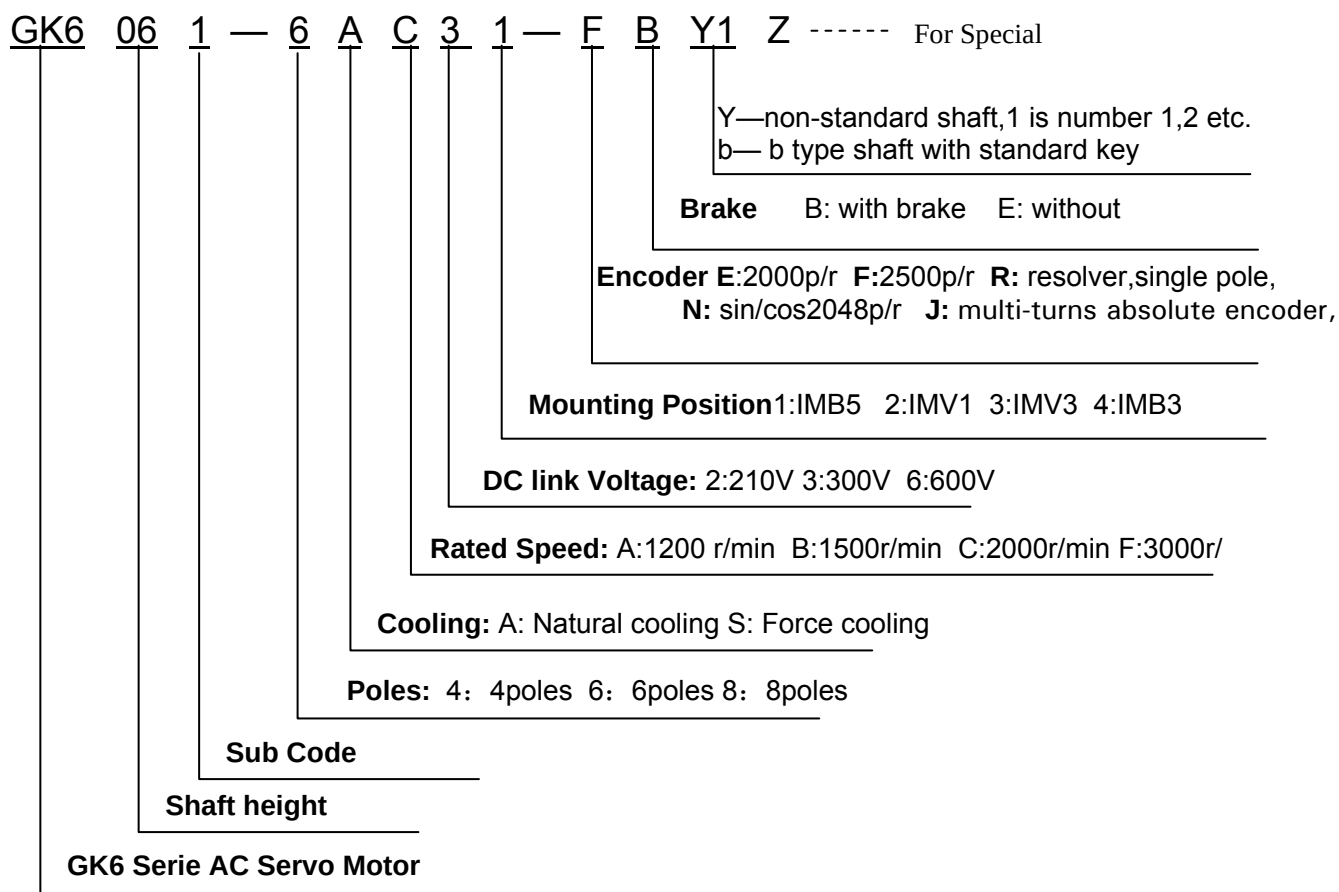
GK6 series servo motor and its drives as a servo drive system, it can be used lots of application, such as machine tools, textile machinery, plastic machinery, printing machinery, platen-printing machines, Manipulating devices robots, wood processing machines, Special purpose machines.

GK6 Series motor is a permanent magnet brushless AC servo motor. It is compose of stator, permanent magnet rotor and high currency encoder (such as resolver, incremental encoder). The interior permanent magnet design is the key to achieving high torque and power density while eliminating problems with magnets placed directly on the air gap. the no housing stator core have big temperature gradient and better cooling performance.

Features

- Compact design, high power density;
- low inertia, high response
- Good quality permanent magnet material, long life time
- Constant nominal torque on overall speed range
- Low noise , Low vibration
- Full sealed Design
- Small torque wave at low speed, high balancing resolution, running stable under high speed
- Good price with strong performance

Type Specification



Technical Specification

Motor Type	AC Servo Motor (Permanent magnet synchronous motor)
Permanent magnet material	Very high jHc rare-earth permanent magnet material
Insulation Class	Temperature class F for a winding temperature rise of $\Delta T = 100$ K at an ambient temperature of $+40$ °C ($+104$ °F). Optional: Class H ($\Delta T = 125$ K), Class C ($\Delta T = 145$ K)
Speed Feedback	Standard: Squire wave photoelectrical incremental encoder (with U、V、W signal) Option: 1.Resolver 2. Sin/Cos encoder, resolution can up to 2^{20} ; 3.Absolute encoder
Temperature protection	PTC positive temperature coefficient coefficient temperature sensor resistance. Under 20°C , $R \leq 250\Omega$. Optional: temperature sensor switch.
Mounting position	IMB5 Optional: IMV1、IMV3、IMB35
Protection Class	IP64 Optional: IP 65、IP67
Cooling	natural cooling
Painting	Gray without gloss Optional: All motors can be painted over with commercially available paint
Bearing	Deep Groove Ball Bearing, seals on both sides
Axial seal	Seal ring at the drive end of shaft
Shaft End	Standard: Shaft without Keyway Optional: With keyway or Key or according with commercially available
Vibration Level	Class N Optional: Class R,S
Rotation resolution	Class N Optional: Class R,S
Noise	GK603 $\leq$ 55dB(A); GK604 $\leq$ 55dB(A); GK605 $\leq$ 60dB(A); GK606 $\leq$ 65dB(A); GK607 $\leq$ 65dB(A); GK608 $\leq$ 70dB(A); GK610 $\leq$ 70dB(A); GK613 $\leq$ 70dB(A); GK618 $\leq$ 76dB(A);
Connector	connector (GK603-GK610) Optional : Terminal Box Terminal Box (GK613 above) Optional : connector
Option	High reliable permanent magnet mechanic brake (Made in Germany) high resolution planetary gear box or Other



Pin Number of Connector

4 pin power connector

Pin number	1	2	3	4
signal	Earth	U	V	W

6 pin Power connector

Pin No.	1	2	3	4	Left 1	Right 1
Signal	Earth	U	V	W	Brake +	Brake -

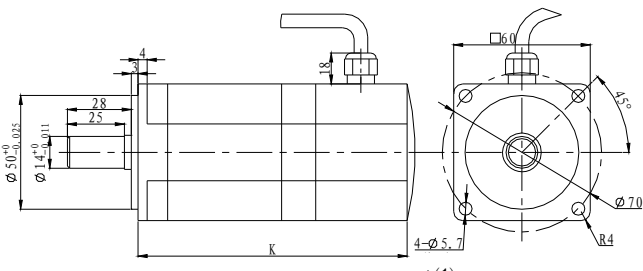
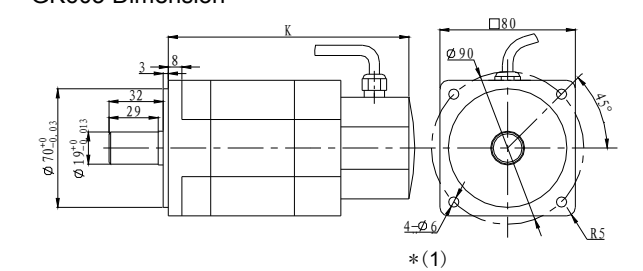
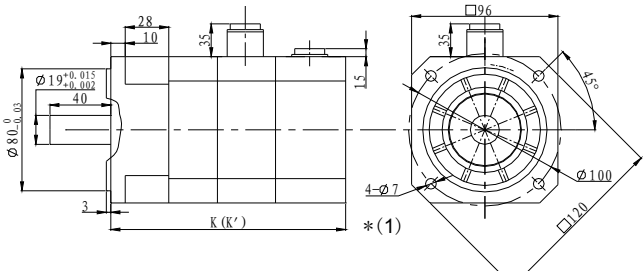
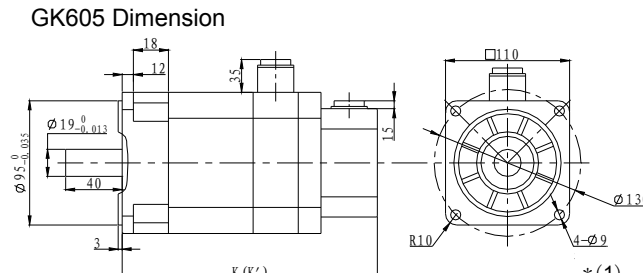
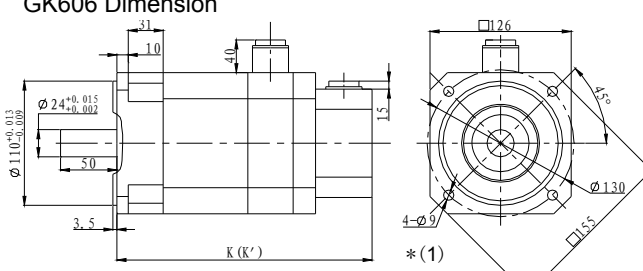
7 Pin Power Connector

Pin No.	1	2	3	4	5	6	7
Signal	Earth	U	V	W	non	Brake +	Brake -

17 Pin Encoder Signal Connector

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Signal	Earth	A	A-	B	B-	U	U-	V	V-	W	W-	+5V	0V	non	non	Z	Z-

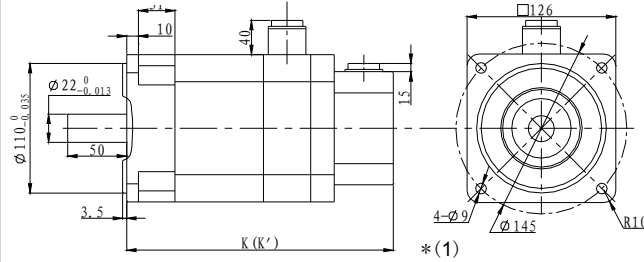
AC Servo Motor Dimension

GK602 Dimension  * (1)	<table><tr><th>Type</th><th>K</th></tr><tr><td>GK6023</td><td>97</td></tr><tr><td>GK6025</td><td>122</td></tr></table>	Type	K	GK6023	97	GK6025	122												
Type	K																		
GK6023	97																		
GK6025	122																		
GK603 Dimension  * (1)	<table><tr><th>Type</th><th>K</th></tr><tr><td>GK6031</td><td>142</td></tr><tr><td>GK6032</td><td>162</td></tr></table>	Type	K	GK6031	142	GK6032	162												
Type	K																		
GK6031	142																		
GK6032	162																		
GK604 Dimension  * (1)	<table><tr><th>Type</th><th>K</th><th>K' (with Brake)</th></tr><tr><td>GK6040</td><td>179.5</td><td>186</td></tr><tr><td>GK6041</td><td>195.5</td><td>202</td></tr><tr><td>GK6042</td><td>211.5</td><td>218</td></tr></table>	Type	K	K' (with Brake)	GK6040	179.5	186	GK6041	195.5	202	GK6042	211.5	218						
Type	K	K' (with Brake)																	
GK6040	179.5	186																	
GK6041	195.5	202																	
GK6042	211.5	218																	
GK605 Dimension  * (1)	<table><tr><th>Type</th><th>K</th><th>K' (with Brake)</th></tr><tr><td>GK6051</td><td>154</td><td>166.5</td></tr><tr><td>GK6052</td><td>169</td><td>181.5</td></tr><tr><td>GK6053</td><td>184</td><td>196.5</td></tr><tr><td>GK6054</td><td>199</td><td>201.5</td></tr><tr><td>GK6055</td><td>214</td><td>226.5</td></tr></table>	Type	K	K' (with Brake)	GK6051	154	166.5	GK6052	169	181.5	GK6053	184	196.5	GK6054	199	201.5	GK6055	214	226.5
Type	K	K' (with Brake)																	
GK6051	154	166.5																	
GK6052	169	181.5																	
GK6053	184	196.5																	
GK6054	199	201.5																	
GK6055	214	226.5																	
GK606 Dimension  * (1)	<table><tr><th>Type</th><th>K</th><th>K' (with Brake)</th></tr><tr><td>GK6060</td><td>173</td><td>188</td></tr><tr><td>GK6061</td><td>198</td><td>213</td></tr><tr><td>GK6062</td><td>223</td><td>238</td></tr><tr><td>GK6063</td><td>248</td><td>263</td></tr><tr><td>GK6064</td><td>186</td><td>201</td></tr></table>	Type	K	K' (with Brake)	GK6060	173	188	GK6061	198	213	GK6062	223	238	GK6063	248	263	GK6064	186	201
Type	K	K' (with Brake)																	
GK6060	173	188																	
GK6061	198	213																	
GK6062	223	238																	
GK6063	248	263																	
GK6064	186	201																	

* (1) even distribution

AC Servo Motor Dimension

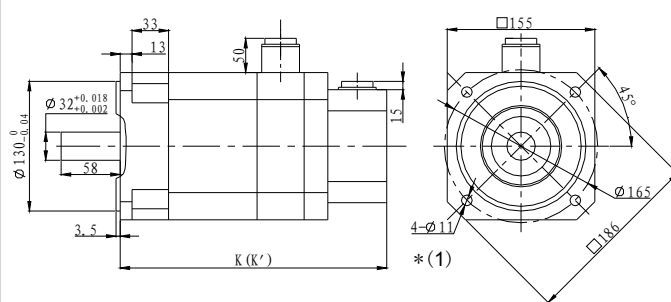
GK607 Dimension



Type K K' (with Brake)

GK6070	173	188
GK6071	198	213
GK6072	223	238
GK6073	248	263
GK6074	186	201

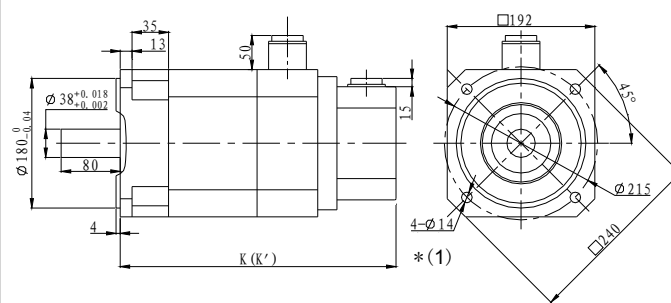
GK608 Dimension



Type K K' (with Brake)

GK6080	260	260
GK6081	285	285
GK6083	310	310
GK6085	335	380
GK6087	360	405
GK6089	385	430

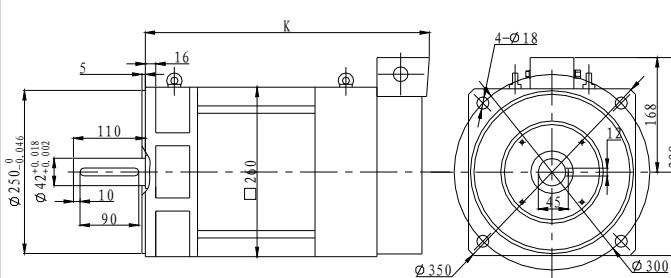
GK610 Dimension



Type K K' (with Brake)

GK6100	242	242
GK6101	268	268
GK6103	294	294
GK6105	320	320
GK6107	346	346
GK6109	385	385

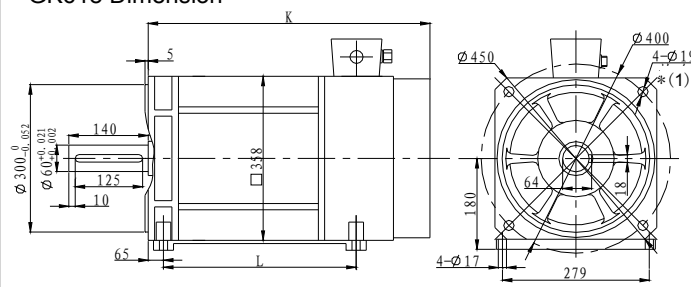
GK613 Dimension



Type K

GK6130	430
GK6131	445
GK6132	485
GK6133	525
GK6135	565
GK6137	605

GK618 Dimension

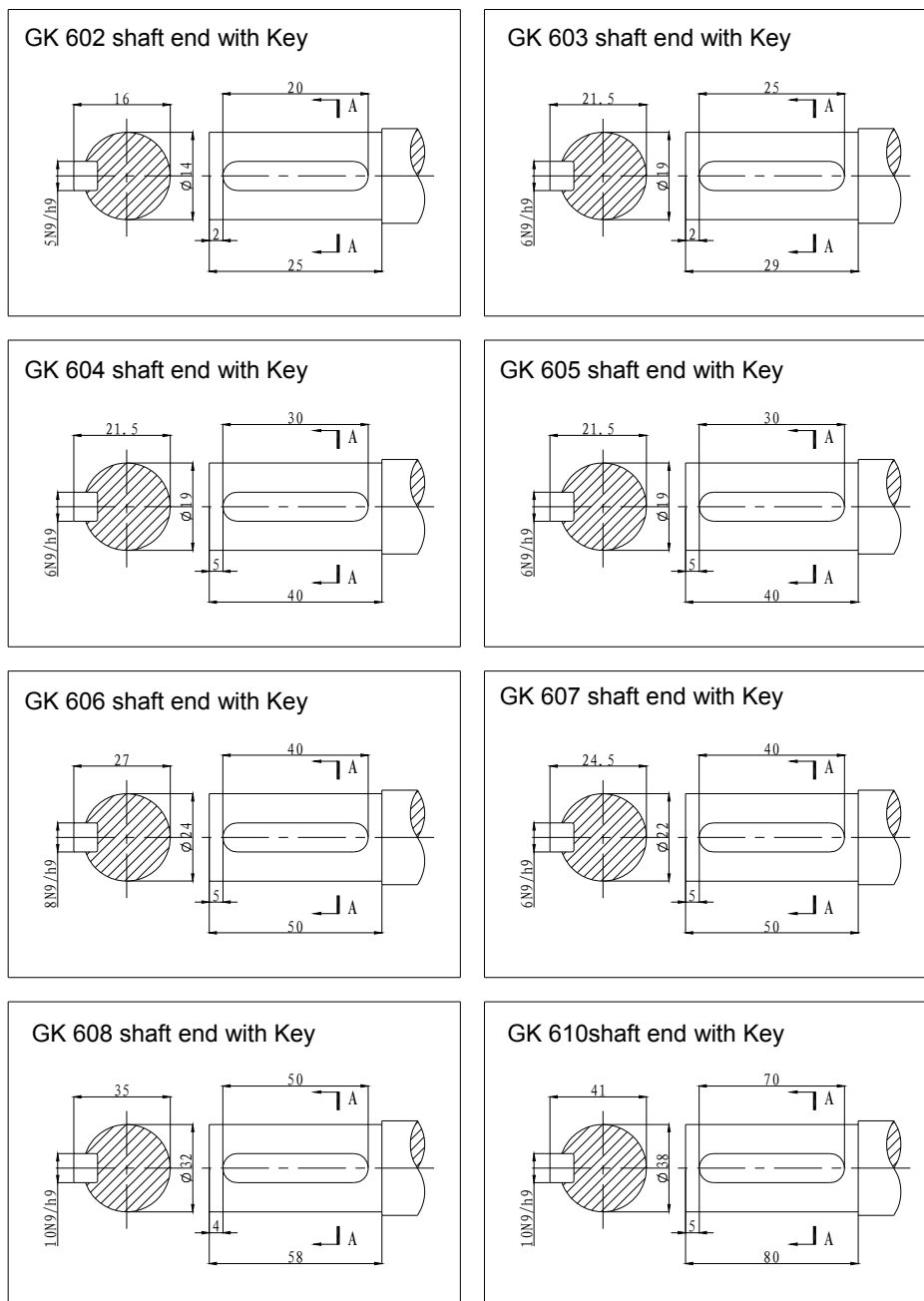


Type L (mm) K (mm)

GK6180	330	672
GK6181	360	702
GK6182	389	731
GK6183	418	760
GK6184	476	818
GK6185	534	876
GK6186	592	934
GK6187	650	992
GK6188	708	1050
GK6189	766	1108

*(1) even distribution

Recommend for Shaft end, Key way and Key



Shaft end Recommendation of Central hole standard for Type C

Type	GK602	GK603	GK604	GK605	GK606	GK607	GK608	GK610	GK613	GK618
Central Hole	M4	M5	M6	M6	M8	M8	M10	M12	M16	M24
Depth of screw	6	7	8	8	10	10	13	15	20	30

Standard Technical Data (Digital driver with 3 x 230V supply)

Type	Rated Speed (r/min)	Standstill Torque M_0 (Nm)	Standstill Current I_0 (A)	Torque C. K_T (Nm/A)	Voltage C. K_e V/1000rpm	Rotor Moment of Inertia (10^{-4}Kgm^2)	Weight (Kg)
GK6023-8AC31 GK6023-8AF31	2000 3000	0.8	1.2 1.8	0.67 0.45	45 30	0.78	1.2
GK6025-8AC31 GK6025-8AF31	2000 3000	1.6	2.4 3.6	0.67 0.45	45 30	0.86	1.7
GK6031-8AC31 GK6031-8AF31	2000 3000	3.2	3.1 4.7	1.03 1.79	45 30	1.31	3
GK6032-8AC31 GK6032-8AF31	2000 3000	4.3	4.2 6.3	1.02 1.14	45 30	1.78	3.8
GK6040-6AC31 GK6040-6AF31 GK6040-6AK31	2000 3000 6000	1.6	2.1 3.2 6.4	0.76 0.5 0.25	67 45 22	1.87	3.7
GK6041-6AC31 GK6041-6AF31 GK6041-6AK31	2000 3000 6000	2.5	2.8 4.2 8.5	0.89 0.59 0.29	67 45 22	2.67	4.3
GK6042-6AC31 GK6042-6AF31 GK6042-6AK31	2000 3000 6000	3.2	3.0 4.5 9	1.07 0.71 0.36	80 53 26.7	3.47	5.0
GK6051-6AC31 GK6051-6AF31	2000 3000	2	2.4 3.5	0.83 0.57	55 37	1.73	4.5
GK6052-6AC31 GK6052-6AF31	2000 3000	3	3.0 4.5	1 0.67	64 43	3.0	5.5
GK6053-6AC31 GK6053-6AF31	2000 3000	4	4.0 5.0	1 0.8	64 51	4.27	6.5
GK6054-6AC31 GK6054-6AF31	2000 3000	5	5.0 6.0	1 0.83	64 53	5.55	7.5
GK6055-6AC31 GK6055-6AF31	2000 3000	6	6.0 8.0	1 0.75	64 48	6.83	8.5
GK6060-6AC31 GK6060-6AF31	2000 3000	3	2.5 3.8	1.2 0.79	62 43	4.4	8.5
GK6061-6AC31 GK6061-6AF31	2000 3000	6	5.5 8.3	1.09 0.72	80 53	8.7	10.6
GK6062-6AC31 GK6062-6AF31	2000 3000	7.5	6.2 9.3	1.21 0.81	80 53	12.9	12.8
GK6063-6AC31 GK6063-6AF31	2000 3000	11	9.0 13.5	1.22 0.82	80 53	17	14.5
GK6064-6AC31 GK6064-6AF31	2000 3000	4.5	3.7 5.5	1.22 0.82	80 53	6.7	9.5
GK6070-6AC31 GK6070-6AF31	2000 3000	3	2.5 3.8	1.2 0.79	62 41	4.4	8.5

Standard Technical Data (Digital driver with 3 x 230V supply)

Type	Rated Speed (r/min)	Standstill Torque M_0 (Nm)	Standstill Current I_0 (A)	Torque C. K_T (Nm/A)	Voltage C. K_e V/1000rpm	Rotor Moment of Inertia (10^{-4} Kg m^2)	Weight (Kg)
GK6071-6AC31 GK6071-6AF31	2000 3000	6	5.5 8.3	1.09 0.72	80 53	8.7	10.6
GK6072-6AC31 GK6072-6AF31	2000 3000	7.5	6.2 9.3	1.21 0.81	80 53	12.9	12.8
GK6073-6AC31 GK6073-6AF31	2000 3000	11	9.0 13.5	1.22 0.82	80 53	17	14.5
GK6074-6AC31 GK6074-6AF31	2000 3000	4.5	3.7 5.5	1.22 0.82	80 53	6.7	9.5
GK6080-6AC31 GK6080-6AF31	2000 3000	16	16 24	1.0 0.67	67.5 45	26.7	16.5
GK6081-6AA31 GK6081-6AC31 GK6081-6AF31	1200 2000 3000	21	12.2 20 30	1.72 1.05 0.7	112.5 67.5 45	35.7	19.5
GK6083-6AA31 GK6083-6AC31	1200 2000	27	16.2 26.5	1.67 1.02	112.5 67.5	44.6	22.5
GK6085-6AA31 GK6085-6AC31	1200 2000	33	19.8 33	1.67 1.0	112.5 67.5	53.5	25.5
GK6087-6AA31 GK6087-6AC31	1200 2000	37	22.2 37	1.67 1.0	112.5 67.5	62.4	28.5
GK6089-6AA31 GK6089-6AC31	1200 2000	42	25.2 42	1.67 1.0	112.5 67.5	71.3	31.5
GK6100-8AC31 GK6100-8AF31	2000 3000	18	17.5 24.5	1.03 0.74	67.5 45	57.2	21
GK6101-8AA31 GK6101-8AC31 GK6101-8AF31	1200 2000 3000	27	15.3 24.5 35	1.77 1.1 0.77	121 72.5 48	89.5	26
GK6103-8AA31 GK6103-8AC31	1200 2000	36	20.4 35	1.76 1.03	121 72.5	121.5	30
GK6105-8AA31 GK6105-8AC31	1200 2000	45	27 45	1.67 1.0	112 67.5	153.5	34
GK6107-8AA31 GK6107-8AC31	1200 2000	55	33 55	1.67 1.0	112 67.5	185.5	38
GK6109-8AA31 GK6109-8AC31	1200 2000	70	42 70	1.67 1.0	112 67.5	233.5	45

Standard Technical Data (digital driver with 3x 380V supply)

Type	Rated Speed (r/min)	Standstill Torque M₀ (Nm)	Standstill Current I₀ (A)	Torque C. K_T (Nm/A)	Voltage C. K_e V/1000rpm	Rotor Moment of Inertia (10 ⁻⁴ Kgm ²)	Weight (Kg)
GK6040-6AC61 GK6040-6AF61	2000 3000	1.6	0.9 1.4	1.78 1.14	114 76	1.87	3.7
GK6041-6AC61 GK6041-6AF61	2000 3000	2.5	1.4 2.2	1.79 1.14	114 76	2.67	4.3
GK6042-6AC61 GK6042-6AF61	2000 3000	3.2	1.9 2.8	1.68 1.14	114 76	3.47	5.0
GK6060-6AC61 GK6060-6AF61	2000 3000	3	1.5 2.3	2.0 1.3	105 70	4.4	8.5
GK6061-6AC61 GK6061-6AF61	2000 3000	6	3.0 4.5	2.0 1.33	135 90	8.7	10.6
GK6062-6AC61 GK6062-6AF61	2000 3000	7.5	3.8 5.7	1.97 1.32	135 90	12.9	12.8
GK6063-6AC61 GK6063-6AF61	2000 3000	11	5.6 8.3	1.96 1.33	135 90	17	14.5
GK6064-6AC61 GK6064-6AF61	2000 3000	4.5	2.2 3.2	2.1 1.41	135 90	6.7	9
GK6070-6AC61 GK6060-6AF61	2000 3000	3	1.5 2.3	2.0 1.3	135 90	4.4	8.5
GK6071-6AC61 GK6071-6AF61	2000 3000	6	3.0 4.5	2.0 1.33	135 90	8.7	10.6
GK6072-6AC61 GK6072-6AF61	2000 3000	7.5	3.8 5.7	1.97 1.32	135 90	12.9	12.8
GK6073-6AC61 GK6073-6AF61	2000 3000	11	5.6 8.3	1.96 1.33	135 92	17	14.5
GK6074-6AC61 GK6074-6AF61	2000 3000	4.5	2.2 3.2	2.1 1.41	135 90	6.7	9
GK6080-6AC61 GK6080-6AF61	2000 3000	16	6.8 10.2	2.35 1.57	144 96	26.7	16.5



Standard Technical Data (digital driver with 3x 380V supply)

Type	Rated Speed (r/min)	Standstill Torque M₀ (Nm)	Standstill Current I₀ (A)	Torque C. K_T (Nm/A)	Voltage C. K_e V/1000rpm	Rotor Moment of Inertia (10 ⁻⁴ Kgm ²)	Weight (Kg)
GK6081-6AA61 GK6081-6AC61 GK6081-6AF61	1200 2000 3000	21	6.1 10 15	3.44 2.1 1.4	225 135 90	35.7	19.5
GK6083-6AA61 GK6083-6AC61 GK6083-6AF61	1200 2000 3000	27	8.1 13.3 20	3.33 2.03 1.35	225 135 90	44.6	22.5
GK6085-6AA61 GK6085-6AC61 GK6085-6AF61	1200 2000 3000	33	9.9 16.5 24.8	3.33 2.0 1.33	225 135 90	53.5	25.5
GK6087-6AA61 GK6087-6AC61 GK6087-6AF61	1200 2000 3000	37	11.1 18.5 27.8	3.33 2.2 1.33	225 135 90	62.4	28.5
GK6089-6AA61 GK6089-6AC61 GK6089-6AF61	1200 2000 3000	42	12.6 21 31.5	3.33 2.0 1.33	225 135 102	71.3	31.5
GK6100-8AA61 GK6100-8AB61 GK6100-8AC61 GK6100-8AF61	1200 1500 2000 3000	18	4.7 5.9 7.8 11.7	3.83 3.05 2.31 1.54	225 204 153 102	57.2	21
GK6101-8AA61 GK6101-8AB61 GK6101-8AC61 GK6101-8AF61	1200 1500 2000 3000	27	7.0 8.8 11.7 17.5	3.86 3.07 2.31 1.54	255 204 153 102	89.5	26
GK6103-8AA61 GK6103-8AB61 GK6103-8AC61 GK6103-8AF61	1200 1500 2000 3000	36	9.4 11.8 15.7 23.5	3.83 3.05 2.29 1.53	253 202 152 101	121.5	30
GK6105-8AA61 GK6105-8AB61 GK6105-8AC61 GK6105-8AF61	1200 1500 2000 3000	45	11.7 14.5 19.5 30.6	3.85 3.10 2.31 1.47	255 204 153 102	153.5	34
GK6107-8AA61 GK6107-8AB61 GK6107-8AC61 GK6107-8AF61	1200 1500 2000 3000	55	14.3 17.9 23.8 35.7	3.85 3.07 2.31 1.54	255 204 153 102	185.5	38
GK6109-8AA61 GK6109-8AB61 GK6109-8AC61 GK6109-8AF61	1200 1500 2000 3000	70	18.5 23.1 28.2 42.3	3.78 3.03 2.48 1.65	255 204 153 109	233.5	45



Force Cooling

Type	Rated Speed (r/min)	Standstill Torque M0 (Nm)	Standstill Current I0 (A)	Torque C. K_T (Nm/A)	Voltage C. K_e V/1000rpm	Rotor Moment of Inertia (10 ⁻⁴ Kgm ²)	Weight (Kg)
GK6130-8SW61	500	75	7.5	10	712	451	53
GK6130-8SV61	750		11	6.8	408		
GK6130-8SE61	1000		15	5	306		
GK6130-8SA61	1200		18	4.2	255		
GK6130-8SB61	1500		23	3.3	204		
GK6130-8SC61	2000		30	2.5	153		
GK6131-8SW61	500	90	9	10	712	509	60
GK6131-8SV61	750		14	6.4	408		
GK6131-8SE61	1000		18	5	306		
GK6131-8SA61	1200		22	4.1	255		
GK6131-8SB61	1500		27	3.3	204		
GK6131-8SC61	2000		36	2.5	153		
GK6131-8SF61	3000		54	1.66	102		
GK6132-8SW61	500	120	12	10	712	664	79
GK6132-8SV61	750		18	6.7	408		
GK6132-8SE61	1000		24	5	306		
GK6132-8SA61	1200		29	4.1	255		
GK6132-8SB61	1500		36	3.3	204		
GK6132-8SC61	2000		48	2.5	153		
GK6133-8SW61	500	150	15	10	712	819	98
GK6133-8SV61	750		23	6.5	408		
GK6133-8SE61	1000		30	5	306		
GK6133-8SA61	1200		36	4.2	255		
GK6133-8SB61	1500		46	3.3	204		
GK6133-8SC61	2000		60	2.5	153		
GK6135-8SW61	500	180	18	10	712	975	117
GK6135-8SV61	750		27	6.7	408		
GK6135-8SE61	1000		36	5	306		
GK6135-8SA61	1200		43	4.2	255		
GK6135-8SB61	1500		54	3.3	204		
GK6135-8SC61	2000		72	2.5	153		
GK6137-8SW61	500	210	21	10	712	1130	135
GK6137-8SV61	750		32	6.6	408		
GK6137-8SE61	1000		42	5	306		
GK6137-8SA61	1200		50	4.2	255		
GK6137-8SB61	1500		64	3.3	204		
GK6139-8SW61	500	270	26	10	712	1590	160
GK6139-8SV61	750		39	6.7	408		
GK6139-8SE61	1000		52	5	306		
GK6139-8SA61	1200		62	4.2	255		
GK6139-8SB61	1500		78	3.3	204		



Force Cooling

Type	Rated Speed (r/min)	Standstill Torque M0 (Nm)	Standstill Current I0 (A)	Torque C. K_T (Nm/A)	Voltage C. K_e V/1000rpm	Rotor Moment of Inertia (10^{-4}Kg m^2)	Weight (Kg)
GK6180-8SE61	1000	250	51	4.88	306	2200	277
GK6180-8SA61	1200		61	4.08	255		
GK6180-8SB61	1500		76	3.28	204		
GK6180-8SC61	2000		102	2.45	153		
GK6181-8SE61	1000	300	61.5	4.88	306	2800	300
GK6181-8SA61	1200		73.5	4.08	255		
GK6181-8SB61	1500		91.5	3.28	204		
GK6181-8SC61	2000		122	2.45	153		
GK6183-8SE61	1000	400	82	4.88	306	3900	345
GK6183-8SA61	1200		98	4.08	255		
GK6183-8SB61	1500		122	3.28	204		
GK6183-8SC61	2000		163	2.45	153		
GK6184-8SE61	1000	500	102.5	4.88	306	5000	390
GK6184-8SA61	1200		122.5	4.08	255		
GK6184-8SB61	1500		152	3.28	204		
GK6184-8SC61	2000		204	2.45	153		
GK6185-8SE61	1000	600	123	4.88	306	6100	435
GK6185-8SA61	1200		147	4.08	255		
GK6185-8SB61	1500		183	3.28	204		
GK6185-8SC61	2000		245	2.45	153		
GK6186-8SE61	1000	700	143	4.88	306	7200	480
GK6186-8SA61	1200		171.5	4.08	255		
GK6186-8SB61	1500		213	3.28	204		
GK6186-8SC61	2000		285.5	2.45	153		
GK6187-8SE61	1000	800	164	4.88	306	8300	525
GK6187-8SA61	1200		196	4.08	255		
GK6187-8SB61	1500		244	3.28	204		
GK6187-8SC61	2000		326.5	2.45	153		
GK6188-8SE61	1000	900	184	4.88	306	9400	570
GK6188-8SA61	1200		220.5	4.08	255		
GK6188-8SB61	1500		274	3.28	204		
GK6188-8SC61	2000		367	2.45	153		
GK6189-8SE61	1000	1000	205	4.88	306	10500	615
GK6189-8SA61	1200		208	4.08	255		
GK6189-8SB61	1500		304.5	3.28	204		
GK6189-8SC61	2000		408	2.45	153		



Remark: please write down your requirement, then print and fax or email to us.

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