

AKM Series Brushless Servomotors

Mount / Shaft Model Number Codes

AKM1xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)		SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER		
			0	-0.021		h7	+0.30	0	8			0	-0.015			h7	-
AN	-	-	30	0 -0.021	h7	46	4.30	+0.30 0	8	0 -0.015	h7	25	-	-	-	-	
AK	-	-	30	0 -0.021	h7	46	4.30	+0.30 0	8	0 -0.015	h7	25	OPEN	3	0 -0.025	14	-
BN	-	-	20.02	+0.02 -0.02	-	46.69	3.56	+0.30 0	6.350	0 -0.012	-	25	-	-	-	-	-
CN	-	-	30	0 -0.021	h7	45	3.40	+0.30 0	8	0 -0.015	h7	25	-	-	-	-	-
CK	-	-	30	0 -0.021	h7	45	3.40	+0.30 0	8	0 -0.015	h7	25	OPEN	3	0 -0.025	14	-

AKM2xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)		SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER		
			0	-0.005		j6	+0.30	0	9 <td>0</td> <td>+0.010</td> <td>k6</td> <td>-</td> <td>-</td>			0	+0.010			k6	-
AN	-	DIN 748	40	0 -0.005	j6	63	4.80	+0.30 0	9	0 +0.001	k6	20	-	-	-	D M3 DIN 332	
AC	-	DIN 748	40	0 -0.005	j6	63	4.80	+0.30 0	9	0 +0.001	k6	20	CLOSED DIN 6885	3	0 -0.025	12	D M3 DIN 332
BN	NEMA ICS 16 INCH (23)	NEMA ICS 16 INCH (038)	38.10	0 -0.05	-	66.68	5.10	+0.30 0	9.525	0 -0.013	-	31.75	-	-	-	-	
CK	NEMA ICS 16 METRIC (70)	NEMA ICS 16 METRIC (14)	50	0 -0.016	h6	70	5.80	+0.30 0	14	0 -0.011	h6	30	OPEN	5	0 -0.03	20	-
DN	-	DIN 748	40	0 -0.005	j6	65	5.80	+0.30 0	9	0 +0.001	k6	20	-	-	-	-	D M3 DIN 332
DC	-	DIN 748	40	0 -0.005	j6	65	5.80	+0.30 0	9	0 +0.001	k6	20	CLOSED DIN 6885	3	0 -0.025	12	D M3 DIN 332
EF ¹	NEMA ICS 16 INCH (23)	NEMA ICS 16 DIA (038) LENGTH (025)	38.10	0 -0.05	-	66.68	5.10	+0.30 0	9.525	0 -0.013	-	20.57	-	-	-	-	
EN	NEMA ICS 16 INCH (23)	NEMA ICS 16 DIA (038) LENGTH (025)	38.10	0 -0.05	-	66.68	5.10	+0.30 0	9.525	0 -0.013	-	20.57	-	-	-	-	

Notes:

1. EF shaft includes a .344" high x .50" min. full depth flat.

AKM3xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)		SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER		
			0	-0.007		j6	+0.30	0	14			0	+0.012			k6	-
AN	EN60072	DIN 748	60	0 -0.007	j6	75	5.80	+0.30 0	14	0 +0.001	k6	30	-	-	-	D M5 DIN 332	
AC	EN60072	DIN 748	60	0 -0.007	j6	75	5.80	+0.30 0	14	0 +0.001	k6	30	CLOSED DIN 6885	5	0 -0.03	20	D M5 DIN 332
CN	-	DIN 748	60	0 -0.007	j6	85	5.80	+0.30 0	14	0 +0.001	k6	30	-	-	-	-	D M5 DIN 332
CC	-	DIN 748	60	0 -0.007	j6	85	5.80	+0.30 0	14	0 +0.001	k6	30	CLOSED DIN 6885	5	0 -0.03	20	D M5 DIN 332

Alternate AKM3xx mount predefined for special orders:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)		SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER		
			0	-0.007 <td>j6</td> <td>+0.30</td> <td>0</td> <td>11</td> <td>0</td> <td>+0.012</td> <td>k6</td> <td>-</td> <td>-</td>		j6	+0.30	0	11			0	+0.012			k6	-
GN ¹	SIEMENS	DIN 748	60	0 -0.007	j6	75	5.80	+0.30 0	11	0 +0.001	k6	23	-	-	-	D M4 DIN 332	
GC ¹	SIEMENS	DIN 748	60	0 -0.007	j6	75	5.80	+0.30 0	11	0 +0.001	k6	23	CLOSED DIN 6885	4	0 -0.03	16	D M4 DIN 332

Notes:

1. GN & GC mounting flanges and shafts are predefined, tooled and available.

Items in **Bold** do not match standard.

AKM Series Brushless Servomotors

Mount / Shaft Model Number Codes

AKM4xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)		SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER		
			+	-		+	-	+	-			+	-				
AN	EN60072	DIN 748	80	+0.012 -0.007	j6	100	7	+0.30 0	19	+0.015 +0.002	k6	40	-	-	-	D M6 DIN 332	
AC	EN60072	DIN 748	80	+0.012 -0.007	j6	100	7	+0.30 0	19	+0.015 +0.002	k6	40	CLOSED DIN 6885	6	0 -0.03	32	D M6 DIN 332
BK	NEMA ICS 16 INCH (34)	NEMA ICS 16 INCH (063)	73.02	0 -0.05	-	98.43	5.54	+0.30 0	15.875	0 -0.013	-	52.40	OPEN	4.76	0 -0.050	34.93	-
CN	-	DIN 748	60	+0.012 -0.007	j6	90	5.54	+0.30 0	19	+0.015 +0.002	k6	40	-	-	-	-	D M6 DIN 332
CC	-	DIN 748	60	+0.012 -0.007	j6	90	5.54	+0.30 0	19	+0.015 +0.002	k6	40	CLOSED DIN 6885	6	0 -0.03	32	D M6 DIN 332
EK ¹	NEMA ICS 16 INCH (34)	NEMA ICS 16 DIA (050) LENGTH (038)	73.03	0 -0.05	-	98.43	5.54	+0.25 -0.25	12.7	+0.000 -0.013	-	31.75	OPEN	3.18	0 -0.050	19.05 HK2212S	-

Alternate AKM4xx mount predefined for special orders:

GN ²	SIEMENS	SIEMENS	80	+0.012 -0.007	j6	100	7	+0.30 0	14	+0.012 +0.001	k6	30	-	-	-	-	D M5 DIN 332
GC ²	SIEMENS	SIEMENS	80	+0.012 -0.007	j6	100	7	+0.30 0	14	+0.012 +0.001	k6	30	CLOSED DIN 6885	5	0 -0.03	20	D M5 DIN 332
HN ²	SIEMENS	SIEMENS	60	+0.012 -0.007	j6	90	5.54	+0.30 0	14	+0.012 +0.001	k6	30	-	-	-	-	D M5 DIN 332
HC ²	SIEMENS	SIEMENS	60	+0.012 -0.007	j6	90	5.54	+0.30 0	14	+0.012 +0.001	k6	30	CLOSED DIN 6885	5	0 -0.03	20	D M5 DIN 332
KK ³	-	-	70	0 -0.03	h7	90	7	+0.30 0	16	0 +0.011	h6	40	OPEN	5	0 -0.03	30	-

Notes:

- EK mount is available on the AKM41 & 42 only.
EK mounts on AKM43 & 44 require customer waiver of shaft liability.
EK mounts are limited to a 240N max. radial force.
- GN, GC, HN & HC mounting flanges and shafts are predefined, tooled and available.
- KK mounting flange is predefined, tooled and available.
The shaft is special order:
Add two weeks to the standard motor lead-time.
Price adds and minimum quantities apply. Contact customer support.

AKM5xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)		SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER		
			+	-		+	-	+	-			+	-				
AN	EN60072	DIN 748	110	+0.013 -0.009	j6	130	9	+0.36 0	24	+0.015 +0.002	k6	50	-	-	-	D M8 DIN 332	
AC	EN60072	DIN 748	110	+0.013 -0.009	j6	130	9	+0.36 0	24	+0.015 +0.002	k6	50	CLOSED DIN 6885	8	0 -0.036	40	D M8 DIN 332
BK	NEMA ICS 16 INCH (42)	NEMA ICS 16 INCH (075)	55.563	0 -0.051	-	125.73	8.33	+0.36 0	19.05	0 -0.013	h6	57.15	OPEN	4.76	0 -0.050	38.1	-
CN	EN60072	DIN 748	95	+0.013 -0.009	j6	115	9	+0.36 0	24	+0.015 +0.002	k6	50	-	-	-	-	D M8 DIN 332
CC	EN60072	DIN 748	95	+0.013 -0.009	j6	115	9	+0.36 0	24	+0.015 +0.002	k6	50	CLOSED DIN 6885	8	0 -0.036	40	D M8 DIN 332
DK	-	NEMA ICS 16 INCH (075)	63.5	0 -0.050	-	127	8.33	+0.36 0	19.05	0 -0.013	h6	57.15	OPEN	4.76	0 -0.050	38.1	-

Alternate AKM5xx mount predefined for special orders:

GN ¹			110	+0.013 -0.009	j6	130	9	+0.36 0	19	+0.015 +0.002	k6	40	-	-	-	-	D M6 DIN 332
GC ¹			110	+0.013 -0.009	j6	130	9	+0.36 0	19	+0.015 +0.002	k6	40	CLOSED DIN 6885	6	0 -0.03	32	D M6 DIN 332
HN ¹	SIEMENS	SIEMENS	95	+0.013 -0.009	j6	115	9	+0.36 0	19	+0.015 +0.002	k6	40	-	-	-	-	D M6 DIN 332
HC ¹	SIEMENS	SIEMENS	95	+0.013 -0.009	j6	115	9	+0.36 0	19	+0.015 +0.002	k6	40	CLOSED DIN 6885	6	0 -0.03	32	D M6 DIN 332

Notes:

- GN, GC, HN & HC mounting flanges and shafts are predefined, tooled and available.

Items in **Bold** do not match standard.

AKM Series Brushless Servomotors

Mount / Shaft Model Number Codes

AKM6xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)	SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER
			+0.014	-0.011			+0.36	0			+0.018	+0.002		
AN	EN60072	DIN 748	130	j6	165	11	32	k6	58	-	-	-	D M12 DIN 332	
AC	EN60072	DIN 748	130	j6	165	11	32	k6	58	CLOSED DIN 6885	10	0	45	D M12 DIN 332
												-0.036		

Alternate AKM6xx mounts predefined for special orders:

GN ¹	SIEMENS	SIEMENS	130	j6	165	11	24	k6	50	-	-	-	D M8 DIN 332	
GC ¹	SIEMENS	SIEMENS	130	j6	165	11	24	k6	50	CLOSED DIN 6885	8	0	40	D M8 DIN 332
												-0.036		
KK ²	NEMA ICS 16 METRIC (145)	NEMA ICS 16 METRIC (28)	110	h7	145	9	28	h6	60	OPEN	8	0	50	-
												-0.036		
LK ^{2,3}	NEMA ICS 16 INCH (56)	NEMA ICS 16 INCH (113)	114.3	-	149.225	[3/8-16 TAP]	28.575	h6	69.85	OPEN	6.35	0	38.1	-
												+0.025		

Notes:

- GN & GC mounting flanges and shafts are predefined, tooled and available.
- KK & LK mounting flanges are predefined, tooled and available.
The shafts are special order:
Add two weeks to the standard motor lead-time.
Price adders and minimum quantities apply. Contact customer support.
- The LK flange matches the common "NEMA56" flange size.
The LK shaft, however, has a much larger diameter to accommodate the high motor torque.
Contact customer support and review torque ratings if smaller shaft diameters are required.

AKM7xx Models:

CODE	MOUNT STANDARD	SHAFT STANDARD	PILOT DIAMETER (mm)		BOLT CIRCLE DIAMETER (mm)	HOLE DIAMETER (mm)	SHAFT DIAMETER (mm)		SHAFT LENGTH (mm)	KEYWAY TYPE	KEY WIDTH (mm)		KEY LENGTH (mm)	SHAFT CENTER
			+0.014	-0.011			+0.43	0			+0.018	+0.002		
AN	EN60072	DIN 748	180	j6	215	13.5	38	k6	80	-	-	-	D M12 DIN 332	
AC	EN60072	DIN 748	180	j6	215	13.5	38	k6	80	CLOSED DIN 6885	10	0	70	D M12 DIN 332
												-0.036		

Alternate AKM7xx mounts predefined for special orders:

GN ¹	SIEMENS	SIEMENS	180	j6	215	13.5	32	k6	58.5	-	-	-	D M12 DIN 332	
GC ¹	SIEMENS	SIEMENS	180	j6	215	13.5	32	k6	58.5	CLOSED DIN 6885	10	0	50	D M12 DIN 332
												-0.036		
KK ²	NEMA ICS 16 METRIC (200)	NEMA ICS 16 METRIC (35)	114.3	-	200	13.5	35	h6	79	OPEN	10	0	70	-
												-0.036		

Notes:

- GN & GC mounting flanges and shafts are predefined, tooled and available.
- KK mounting flange is predefined, tooled and available.
The shaft is special order:
Add two weeks to the standard motor lead-time.
Price adders and minimum quantities apply. Contact customer support.

Items in **Bold** do not match standard.