

## AKM2G: SIMPLE CO-ENGINEERING

Kollmorgen has added new available options through “Simple Co-Engineering (Co-E)”. These new “Simple Co-E” options are highlighted in grey and do not require “MOQ” (Minimum order quantity) or “NRE” (Non-recurring engineering expense). The lead time will be two weeks in addition to the standard lead time (i.e., three weeks from order placement to shipment) unless specified.

### Mount

Besides the standard “AC” and “AN” types, “GN” and “GC” options are now also available. Same as on AKM1G, “Gx” codes offer the same mounting dimensions as “Ax”, but the shaft is modified to match the next-generation smaller frame-size motor (e.g., AKM2G-31 “GN” mount has the same mounting dimensions as Size 3 “AN” and same shaft dimensions as Size 2 “AN”).

AKM2G Frame							Option Type	Code	Description
2	3	4	5	6	7				
•	•	•	•	•	•	Mount	AC	metric IEC + closed keyway	
•	•	•	•	•	•	Mount	AN	metric IEC	
-	•	•	•	•	•	Mount	GN	Alternate shaft + closed keyway	
-	•	•	•	•	•	Mount	GC	Alternate shaft	

Legend: • : available - : not available

### Connector

The “AKM1G connector” (Intercontec “SpeedTec Ready”), coded as “A” connector, is available on Sizes 2 through 7. **The “A” connector would allow AKM2G customers to use AKM1G cables when needed.** Please review the Connector/Feedback matrix in the last part of this letter for availability and exceptions.

AKM2G Frame							Option Type	Code	Description
2	3	4	5	6	7				
-	•	•	•	•	•	Connector	C	dual right angle M23/M23	
•	•	•	•	•	•	Connector	D	single right angle M23	
-	•	•	•	•	•	Connector	G	dual straight M23/M23	
-	-	-	-	-	•	Connector	H	dual right angle M40/M23	
-	-	-	-	-	•	Connector	J	single right angle M40	
•	-	-	-	-	-	Connector	Y	ytec	
•	•	•	•	•	•	Connector	A	right angle AKM1G connector; requires AKM1G cable(s)	

Legend: • : available - : not available

### Feedback options

Besides the four standard feedback options originally on AKM2G, i.e., SFD3, Hiperface DSL Capacitive, Endat 2.2 and Resolver, the majority of AKM1G feedback options are now available on AKM2G through the “Simple CoE” process.

AKM2G Frame							Code	Description	Turn <sup>1)</sup>	Type
2	3	4	5	6	7					
•	•	•	•	•	•	CA	SFD3 (2 lines)	ST	Inductive	
•	•	•	•	•	•	GU	Absolute Hiperface DSL	MT	Capacitive	
•	•	•	-	-	-	LD	Absolute Endat 2.2, EQI 1131	MT	Inductive	
-	-	-	•	•	•	LD	Absolute Endat 2.2, EQI 1331	MT	Inductive	
•	•	•	•	•	•	R-	Resolver	ST	Inductive	
•	•	•	•	•	-	1-	1024 LPR <sup>2)</sup> Encoder (Comcoder, EPC 15T)	ST	Optical	
•	•	•	•	•	-	2-	2048 LPR <sup>2)</sup> Encoder (Comcoder, EPC 15T)	ST	Optical	
•	•	•	-	-	-	AA	BiSS B Encoder, AD34	ST	Optical	
-	-	-	•	•	•	AA <sup>3)</sup>	BiSS B Encoder, AD58	ST	Optical	
•	•	•	-	-	-	AB	BiSS B Encoder, AD34	MT	Optical	
-	-	-	•	•	•	AB <sup>3)</sup>	BiSS B Encoder, AD58	MT	Optical	
•	•	•	•	•	•	C-	SFD2 (4 lines)	ST	Inductive	
•	•	•	-	-	-	DA	Endat 2.1 Encoder, ECN 1113	ST	Optical	
-	-	-	•	•	•	DA <sup>3)</sup>	Endat 2.1 Encoder, ECN 1313	ST	Optical	
•	•	•	-	-	-	DB	Endat 2.1 Encoder, EQN 1125	MT	Optical	
-	-	-	•	•	•	DB <sup>3)</sup>	Endat 2.1 Encoder, EQN 1325	MT	Optical	
•	•	•	•	•	•	GA	HIPERFACE Encoder, SKS36 (Servostar mapping)	ST	Optical	
•	•	•	•	•	•	GB	HIPERFACE Encoder, SKM36 (Servostar mapping)	MT	Optical	
•	•	•	•	•	•	GE	HIPERFACE DSL Encoder, EKS36	ST	Optical	
•	•	•	•	•	•	GF	HIPERFACE DSL Encoder, EKM36	MT	Optical	
•	•	•	•	•	•	GJ	HIPERFACE Encoder, SKS36 (AKD mapping)	ST	Optical	
•	•	•	•	•	•	GK	HIPERFACE Encoder, SKM36 (AKD mapping)	MT	Optical	
•	•	•	-	-	-	LA	Endat 2.1 Encoder, ST, Inductive, ECI 1118	ST	Inductive	
-	-	-	•	•	•	LA	Endat 2.1 Encoder, ST, Inductive, ECI 1319	ST	Inductive	
•	•	•	-	-	-	LB	Endat 2.1 Encoder, EQI 1130	MT	Inductive	
-	-	-	•	•	•	LB	Endat 2.1 Encoder, EQI 1331	MT	Inductive	

Legend: • : available - : not available

Notes:

- 1) ST: Single-turn; MT: Multi-turn
- 2) LPR: lines per revolution
- 3) Add additional +4 weeks lead time, instead of +2 weeks in normal “Simple CoE” cases.

With additional feedback device and connector options, the matrixes below visualize the feedback-connector fit.

**Connector-Feedback Device Fit: Size 2**

	C	D	G	H	J	Y	A	[AKM Connector type]	Performance Reference <sup>4)</sup>
CA	-	•	-	-	-	-	•	single right angle M23	CA
GU	-	•	-	-	-	-	-		GU
LD	-	•	-	-	-	-	-		LD
R-	-	-	-	-	-	-	•		R-
1-	-	-	-	-	-	-	•	y-tec Connector	CA
2-	-	-	-	-	-	-	•	y-tec Connector	CA
AA/AB	-	-	-	-	-	-	•	y-tec Connector	GU
C-	-	-	-	-	-	-	•	y-tec Connector	CA
DA/DB	-	-	-	-	-	-	•	y-tec Connector	LD
GA/GB	-	-	-	-	-	-	•	y-tec Connector	LD
GE/GF	-	•	-	-	-	-	-		LD
GJ/GK	-	-	-	-	-	-	•	y-tec Connector	LD
LA/LB	-	-	-	-	-	-	•	y-tec Connector	LD

Legend: • : available - : not available

**Connector-Feedback Device Fit: Size 3-7, <20 Arms**

	C	D	G	H	J	Y	A	[AKM Connector type]	Performance Reference <sup>4)</sup>
CA	-	•	-	-	-	-	•	single right angle M23	CA
GU	-	•	-	-	-	-	-		GU
LD	-	•	-	-	-	-	-		LD
R-	•	-	•	-	-	-	•	dual right angle M23/M23	R-
1-	-	-	-	-	-	-	•	dual right angle M23/M23	CA
2-	-	-	-	-	-	-	•	dual right angle M23/M23	CA
AA/AB	-	-	-	-	-	-	•	dual right angle M23/M23	GU
C-	-	-	-	-	-	-	•	dual right angle M23/M23	CA
DA/DB	-	-	-	-	-	-	•	dual right angle M23/M23	LD
GA/GB	-	-	-	-	-	-	•	dual right angle M23/M23	LD
GE/GF	-	•	-	-	-	-	-		LD
GJ/GK	-	-	-	-	-	-	•	dual right angle M23/M23	LD
LA/LB	-	-	-	-	-	-	•	dual right angle M23/M23	LD

Legend: • : available - : not available

Connector-Feedback Device Fit: **Size 7, 20+ Arms**

	C	D	G	H	J	Y	A	[AKM Connector type]	Performance Reference <sup>4)</sup>
CA	-	-	-	-	•	-	-		CA
GU	-	-	-	-	•	-	-		GU
LD	-	-	-	•	-	-	-		LD
R-	-	-	-	•	-	-	•	dual right angle M40/M23	R-
AA/AB	-	-	-	-	-	-	•	dual right angle M40/M23	GU
C-	-	-	-	-	-	-	•	dual right angle M40/M23	CA
DA/DB	-	-	-	-	-	-	•	dual right angle M40/M23	LD
GA/GB	-	-	-	-	-	-	•	dual right angle M40/M23	LD
GE/GF	-	-	-	-	•	-	-		LD
GJ/GK	-	-	-	-	-	-	•	dual right angle M40/M23	LD
LA/LB	-	-	-	-	-	-	•	dual right angle M40/M23	LD

Legend: • : available - : not available

Note:

4) When evaluating AKM2G performance curves, please select this standard feedback option as reference for similar expected motor performance.

**Please note**

In addition, the AKM2G engineering team is available to review additional Co-E options that are not included above. Please feel free to reach out to your Kollmorgen Key Account Manager for support.