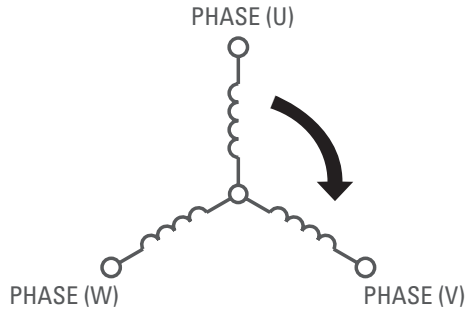


# Feedback Options

## Phasing Diagram - All Motors

### Motor Winding Configuration



General note:

When motor is rotated CW (viewed from drive shaft end), these waveforms result:

Voltage U , leads V , leads W.

Voltage U-W leads Voltage V-W by 60° electrical.

## AKM2G LV Servo Motor Feedback Summary

Available Models <sup>5</sup>	Code	Description	Connector	Type	Size	Motor ID Support <sup>3</sup>	Accuracy <sup>1,2</sup> (arc-sec)	RMS Noise <sup>1</sup> (arc-sec)	Resolution	Absolute revs.
3, 4	2-	Commutating Encoder	C/G	Optical	15	No	±218.2"	N/A	12 bits	None
2, 3, 4	GU	HIPERFACE DSL®	D	Capacitive	EEM37	Yes	±240"	±20"	17 bits	4096
2, 3, 4	LD	EnDat® 2.2	D	Inductive	EQI 1131	Yes	±120"	See Note 4	19 bits	4096
3, 4	R-	Resolver	C/G	Inductive	15	No	±540"	N/A	24 bits for AKD	1

Note 1: AKD drives have a resolver measurement accuracy of ±45", for a drive w/ motor accuracy of ±585" and RMS Noise of ±9.9" Accuracy & RMS Noise data when used with other drives may be different.

Note 2: Accuracy refers to overall system accuracy once installed in the motor. Noise refers to the RMS position noise when at stand-still.

Note 3: Motor ID support means electronic motor nameplate data is included, allowing for plug-and-play commissioning.

Note 4: At the time of printing, this information was not available. Please contact Kollmorgen Customer Support for the latest update.

Note 5: AKM2G-LV Size 2 models are only available in single-connector configurations.

With AKD drives, all received positions are interpolated to a 32-bit resolution per revolution. When using a drive other than AKD consult the drive manufacturer for this information.

## Connector Options Summary for Low Voltage Servo Motors

Available Models	Model Designation	Connection	Position of connection
3, 4	C	2 SpeedTec® M23	Angular, rotatable, motor mounted
2, 3, 4	D*	1 htec® M23	Angular, rotatable, motor mounted
3, 4	G	2 SpeedTec® M23	Straight, motor mounted

\* Hybrid connectors valid for DSL and EnDat Feedback only.