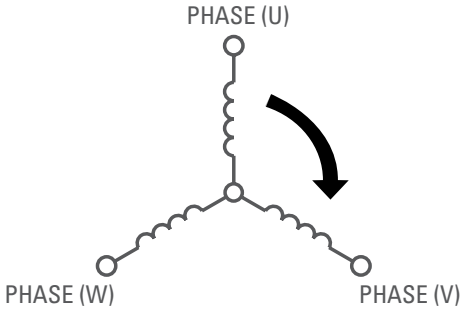


# Feedback Options

## 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 Servo Motor Feedback Summary with AKD Family Servo Drives

Feedback Device	Motor ID Support <sup>3</sup>	Type	Compatible AKM2Gx	Accuracy <sup>1,2</sup> (arc-sec)	RMS Noise <sup>1</sup> (arc-sec)	Resolution	Absolute Revs
SFD3 (CA)	Yes	Inductive	AKM2G 2-7	±585"	±9.9"	24 bits	1
HIPERFACE DSL® (GU)	Yes	Capacitive	AKM2G 2-7	±240"	±20"	17 bits	4096
EnDat® 2.2 (LD)	Yes	Inductive	AKM2G 2,3,4	±120"	See Note 4	19 bits	4096
			AKM2G 5,6,7	±65"			
Resolver (R-)	No	Inductive	AKM2G 2-7	±540"	N/A	24 bits for AKD/AKD2G	1

Note 1: AKD/AKD2G drives have a resolver measurement accuracy of ±45", for a drive w/ motor accuracy of ±585" and RMS Noise of ±9.9".  
 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.  
 With AKD and AKD2G drives, all received positions are interpolated to a 32-bit resolution per revolution.