



200 V Three-Phase  
0.4 kW to 110 kW

400 V Three-Phase  
0.4 kW to 630 kW

## Inverter Series Electronic Line Shaft Software

► **High Precision:**

The Electronic Line Shaft (ELS) function allows a drive to precisely follow a master encoder (PG) signal in speed, direction, and phase

► **Flexible Gear Ratio:**

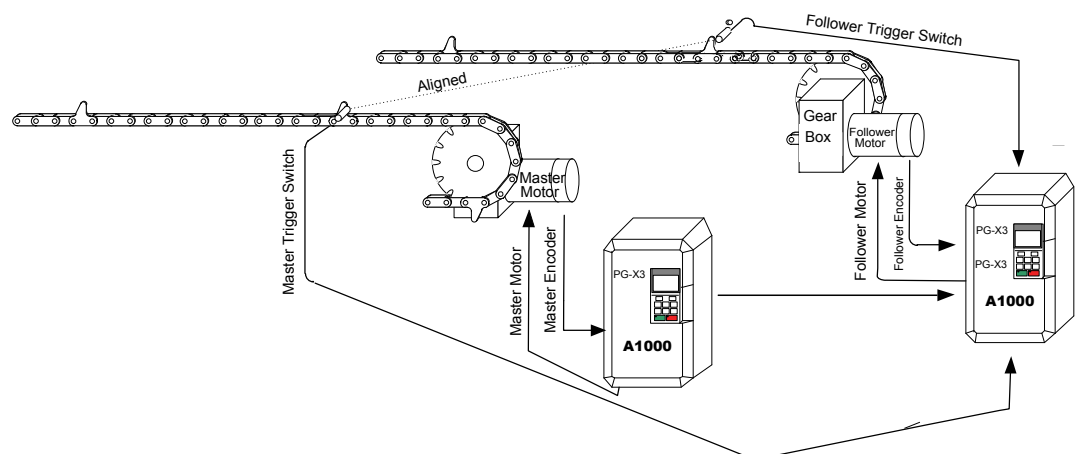
The gear ratio between the master and the follower is adjustable. In addition, a gear ratio adjustment (“draw”) can be added to the speed reference via parameter, analog input, multi-function input MOP or serial communication

► **Position Matching:**

The follower can match its position (phase angle) to the master within several quadrature encoder counts

► **Two proximity switches:**

The automatic alignment feature is using two proximity switches connected to the trigger inputs on the follower drive. One switch is used to indicate the position of the master, and the other switch is used to indicate the position of the follower. When the alignment feature is activated and the machine is running, the distance between the trigger switches is measured and compensated.





## Standard Specifications



Possible  
Digital Input  
Functions

- ▶ Follower Disable
- ▶ Ratio 2 Select
- ▶ Advance Follower
- ▶ Retard Follower
- ▶ MOP Adjust Increase (MOP Adjust Inc)
- ▶ MOP Adjust Decrease (MOP Adjust Dec)
- ▶ MOP Adjust Reset (MOP Adj Reset)
- ▶ Position Error Reset (Pos Err Reset)
- ▶ Position Regulator Integral Reset (Pos Reg I Reset)
- ▶ Follower Trigger (Follower Trigger)
- ▶ Master Trigger (Master Trigger)
- ▶ Align Follower Command
- ▶ Functional Safety

Possible  
Digital Output  
Functions

- ▶ Follower Position Deviation
- ▶ Align Complete
- ▶ In Alignment Open

### Applications

- ▶ The function is used in applications where the machinery being driven requires two mechanically isolated and motor-driven moving parts to maintain a constant position relationship.

### Limitations

- ▶ Drive Works EZ Removed

#### International Standards



#### Safety Standards

