FAQ# SRV-I3E7NL

Title:Position Deviation, Position Amplifier Deviation, and Motor-Load Position Deviation

Product(s): Sigma-5 and Sigma-7 Products

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YASKAWA

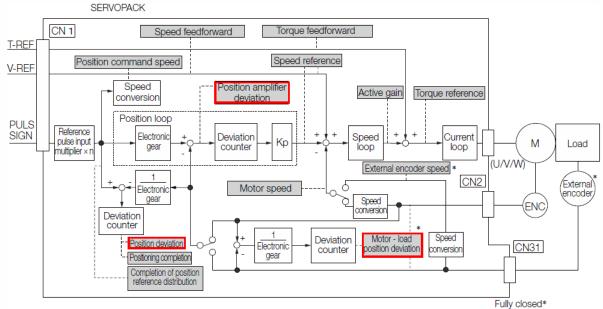
Difference between Position Deviation, Position Amplifier Deviation, and Motor-Load Position Deviation

The position deviation is the difference between the position reference value and the actual position.

The position amplifier deviation is the difference between the position reference value and the actual position after electronic gear conversion.

The motor-load position deviation is the difference between the feedback position of the motor encoder and the feedback load position of the external encoder for fully-closed loop control.

The following diagram applies to Sigma-7 SERVOPACKS. For example, an excerpt from the Sigma-7 Analog/Pulse SERVOPACKs, Yaskawa.com document number SIEPS80000126 is shown below. The shaded parts in the diagram below can be monitored through SigmaWin+ or a measuring instrument.



Rotary Servomotors

* This speed is available when fully-closed loop control is being used.

This also applies to Sigma-5 SERVOPACKs, even though the signal names use the word error instead of deviation, i.e. position error instead of position deviation.