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With absolute encoder evaluation, the validity of the initialized absolute position is checked during position initialization. If the controller detects that the position data reference of the encoder can no longer be established due to changes in the mechanics parameters or replacement of the encoder or device, "Homing status: Feedback value status" (0x2508:01 / S-0-0403 / --) goes to "relative" and the error F2174 is generated.

Cause	Remedy
Switched on without reference (at initial commissioning or caused, e.g., by changes to parameters that characterize the mechanical system or affect position evaluation)	Clear error and establish position data reference again
Loss of reference after switching off and back on [24 V switching elements operated with DC (such as relays or power contactors) are used without active suppressor circuit of the operating coil]	Ensure that a correctly connected suppressor circuit of the operating coil is used at 24 V switching elements operated with DC
Switched on without reference (after motor or encoder was replaced)	Clear error and establish position data reference
Change in mechanics parameters (gearbox, feed constant,...)	Clear error and establish position data reference
Amplifier replaced without parameter update	Clear error and establish position data reference

Cause	Remedy
Switched on without reference after device has been replaced with loaded, axis-specific parameter values [according to "Application data: IDN list" (0x2B60:03 / S-0-0192 / --)]	Clear error and establish position data reference - or - Clear error, then load parameter values of "Process data, retain: IDN list of retain data" (0x2B6E:01 / P-0-0195 / --), if it had been possible to save them directly before the device was replaced. Check correctness of reestablished position data reference
In the case of encoders with buffer battery: F2080/F2081/F2082 (low battery voltage) was entered besides F2174 in "Diagnostic trace: Main diagnostics" (0x2B84:0A / S-0-1303.0.10 / S-0-1405). Encoder memory is not supplied with power because battery power is no longer sufficient or there is cable break in supply line.	Reestablish power supply of encoder memory. Replace battery (see F2080/F2081/F2082) or remove cable break.
Defective encoder	Replace motor or encoder, clear error and establish position data reference

► Attributes

Detailed diagnostics

0044002E

00440035

0044003A

0044003B

0044003C

0044003D

0044003E

00440046

00440047

00440048

00440107

00440108

00440109

0044010A

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