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To protect the devices against thermal destruction, the thermal load of the output stage in devices with digital current control is constantly calculated by a temperature model, depending on the measured current.

If the thermal load exceeds 100 % [displayed in "Inverter thermal model: Actual load value" (0x21A4:01 / P-0-0141 / --)], the continuous current limitation is activated and the warning E8057 is generated. As a result, the drive can no longer follow the command values preset by a control unit.



If the warning E8057 is active, the bit 0 (overload warning) is additionally set in "Class 2 diagnostics: Value" (0x2B88:01 / S-0-0012 / --).



With the firmware AXS-V-0316 and above, this warning can be suppressed via "Axis configuration: Word" (0x2200:01 / P-0-0556 / --, bit 21="1") in the case of error.

With XVR

When the thermal load has reached 100 %, the continuous current limitation is activated and the warning E8057 is generated. As a result, the available DC bus power is reduced and notably drives with a high power requirement can no longer follow the command value input.

Cause	Remedy
Device has not been adjusted to the requirements of the application or the motor	Check drive sizing and, if necessary, use a more powerful device
Too high acceleration torque / too high acceleration force is demanded	Reduce acceleration by adjusting the command value profile
Drive overload by too high continuous load	Reduce overload in long machining phases
Too high process force or machining force (e.g., infeed)	Reduce process force or machining force
Mechanical changes in the axis (e.g., friction, load conditions,...)	Check mechanical system and, if necessary, optimize load conditions and/or friction conditions

Cause	Remedy
Encoder error (e.g., cable/wire break)	Check encoder, check wiring

See also Current and torque/force limitation, power limitation

▶ [Attributes](#)