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The heat sink temperature of the device is monitored by a temperature sensor and a temperature model. When the heat sink temperature has reached the maximum value, the device is switched off in order to protect it against destruction.



Before the error **F2018** is triggered, a device overtemperature prewarning (**E2050**) is output for 30 seconds.

Cause	Remedy
Overtemperature (heat sink) due to overload of device	Switch off drive and let it cool down. Check mechanics and drive sizing (on average, machining power may not exceed continuous power of drive)  <b>For liquid-cooled devices:</b> Check sizing of cooling system (see documentation with material no. R911309636)
Ambient temperature too high. Specified performance data are valid up to an ambient temperature of 40 °C	Reduce ambient temperature, e.g. by cooling the control cabinet
Heat sink of device is dirty	Clean heat sink
Convection is prevented by other components or mounting position in control cabinet	Mount device vertically and provide sufficient space for ventilating heat sink
Device-internal fan failed	If fan fails, replace device or power section
Air conditioning of control cabinet failed	Check air conditioning of control cabinet
Incorrect control cabinet sizing with regard to heat dissipation	Check control cabinet sizing

### Additional possible causes for liquid-cooled devices

Cause	Remedy
No cooling system connected	Connect cooling system
Error in cooling system, e.g. coolant pump defective or filter clogged up; thus, flow rate too low/coolant inlet temperature too high	Check cooling system and remove error

► [Attributes](#)