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# 1 Standard-Messages

## 1.1 0000, No errors

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
0000	0

  

Class	Type
Info	Information

  

Standard Reaction	Reset
No	Information: No reset required.

## 1.2 2310, Continuous over current (device output side)

The demanded current from axis system exceeds permanently the nominal current by more than the nominal current.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2310	8976

Class	Type
Error	Error

Standard Reaction	Reset
NC-Handling order	Execute Reset-Command (Fault reset).

Possible Causes	Solutions
Your applikation is so designed, that this exceeds permanently the allowed value.	Analyze your application and make that this overcurrent does not happen. E.g. make that not so many motors run with so much current at once. Or use a bigger power supply module.

## 1.3 2380, Peak over current (device output side)

The demanded current from axis system overloads the power supply module. This happens when a current of two times the nominal current is requested for longer than 5s.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
2380	9088

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Generative brake ramp order to the axis	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Your applikation is so designed, that this exceeds the maximal allowed current.	Analyze your application and make that this overcurrent does not happen. E.g. make that not so many motors accelerate with so much current at once. Or use a bigger power supply module.

## 1.4 23A0, Continuous over current (device output side)

The demanded current from axis system exceeds parametrized warning threshold.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
23A0	9120

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.



## 1.5 3110, Mains over-voltage

The actual mains voltage exceeds the parametrized mains voltage (0x8000:06) by more than 20% or by more than the parametrized positive tolerance (0x8000:07), if this higher than 20%.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3110	12560

  

Class	Type
Error	Error

  

Standard Reaction	Reset
NC-Handling order	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
The actual mains voltage is too high.	Look for a allowed mains voltage.
The positive mains voltage tolerance (0x8000:07) is parametrized too low.	Correct this parametrized value.

## 1.6 3130, Phase failure

One phase is failed by 3-phase-supply.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3130	12592
Class	Type
Error	Error
Standard Reaction	Reset
NC-Handling order	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
The mains voltage supply is faulty.	Analyze the mains voltage supply and resolve the problem.
You use the power supply module in a one-phase-mains but it is parametrized for three phases. And the module has not recognized the mains type properly.	Check the parameter Mains type (0x8000:04) and correct its value. Switch on again the mains voltage.
The mains voltage supply is disturbed over and over.	Activate a filter, which effects, that the phase monitoring waits longer, until this error is set.

## 1.7 3180, Mains voltage over brake resistor operating voltage

The mains voltage has voltage peaks, which makes that the brake chopper gets switched on.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3180	12672

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Relays are disabled	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Voltage peaks occur by the mains voltage.	Analyze the mains supply and make, that the voltage peaks do not happen.
The parametrization of DC link max voltage (0x8000:01) is too low.	Check your application and parametrize the DC link max voltage higher, if necessary. In this case the switchOn threshold voltage (0x9006:0C) of the brake chopper should has been changed.

## 1.8 3181, Wrong mains type

The connected mains type (3Ph/AC, 1Ph/AC or DC) does not match with parametrized value of Mains type (0x8000:04).

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3181	12673

  

Class	Type
Error	Error

  

Standard Reaction	Reset
PSM is not ready to operate	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Mains type (0x8000:04) is parametrized with wrong value.	Check the parameter Mains type (0x8000:04) and correct its value.
The mains supply is not connected right.	Check the mains supply and connected it right, Switch on the mains voltage again.

## 1.9 31A0, Mains over-voltage

The connected mains voltage exceeds the parametrized warning threshold.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
31A0	12704

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.

## 1.10 31A1, Mains under-voltage

The connected mains voltage fell below the parametrized warning threshold.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
31A1	12705

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.

## 1.11 3210, DC link over-voltage

The DC link voltage rises over the permitted DC link voltage because of power feedback (brake) from the motors.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3210	12816

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Non-generative brake ramp order to the axis	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Your application is so designed, that the permitted DC link voltage is exceeded.	Analyze your application and make, that this overvoltage can not happen.
The parametrization of DC link max voltage (0x8000:01) is too low.	Check your application and parametrize the DC link max voltage (0x8000:01) higher, if necessary.

## 1.12 3280, Device DC link over-voltage

The DC link voltage rises over the permitted maximal DC link voltage because of power feedback (brake) from the motors.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
3280	12928
Class	Type
Error	Error
Standard Reaction	Reset
Torque off order to the axis	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Your application is so designed, that the permitted maximal DC link voltage is exceeded.	Analyze your application and make, that this overvoltage can not happen.



## 1.13 4210, Excess temperature device

The device temperature exceeds the permitted maximal value of 80 °C.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
4210	16912

  

Class	Type
Error	Error

  

Standard Reaction	Reset
NC-Handling order	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Your application has produced a thermic overload of the power supply module.	Analyze your application and make, that this thermic overload does not happen.

## 1.14 42A0, Excess temperature device

The actual device temperature exceeds the parametrized warning threshold.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
42A0	17056

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.

## 1.15 5580, Read failure EEPROM Pcb ID %u

A error by reading data from the eeprom happened by the initialization.  
 This error by initializing operating time is deactivated by following firmware:  
 - v1.01 b0002  
 - v1.01 b0001  
 - v0.32 b0004

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5580	21888

  

Class	Type
Error	Error

  

Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.

  

Possible Causes	Solutions
An internal hard- or software failure happened, while reading data from eeprom.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.

## 1.16 5582, Missing ids in EEPROM Pcb ID %u

An error by reading data from the eeprom happened by the initialization.

- ID 0: PowerPcb
- ID 1: LinkPcb
- ID 2: OptionPcb
- ID 3: DisplayPcb

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5582	21890

  

Class	Type
Error	Error

  

Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.

  

Possible Causes	Solutions
A internal hard- or software failure happened, while reading data from eeprom.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.

## 1.17 5583, Missing device ids in eeprom

By the initialization the device ids could not be found in eeprom.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5583	21891
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.
Possible Causes	Solutions
A internal hard- or software failure happened, while reading data from eeprom.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.
Device ids are missing in eeprom	Please contact your competent Beckhoff office.

## 1.18 5587, Missing factory settings

By the initialization the factory settings could not be found in eeprom.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5587	21895
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.
Possible Causes	Solutions
A internal hard- or software failure happened, while reading data from eeprom.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.
Factory settings are missing in eeprom.	Please contact your competent Beckhoff office.

## 1.19 5592, EEPROM Pcb ID %u FirmwareIndex is incompatible to this Firmware

Detected incompatible Pcb for this Firmware.

- ID 0: PowerPcb
- ID 1: LinkPcb
- ID 2: OptionPcb
- ID 3: DisplayPcb

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
5592	21906

Class	Type
Error	Error

Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.

Possible Causes	Solutions
This Hardware needs a newer Firmware.	Ask the Beckhoff branch office that is responsible for you for the right Firmwareversion.

## 1.20 55A0, Read failure EEPROM

A error by reading data from the eeprom of power board happened by the initialization.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
55A0	21920

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.



## 1.21 55A1, Missing data EEPROM

Data could not be found when reading from the eeprom.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
55A1	21921

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.

## 1.22 55D0, Restored Errormessages from persistent memory

The persistent Memory contains an errorlog. The messages are restored during power on phase.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
55D0	21968

  

Class	Type
Info	Information

  

Standard Reaction	Reset
No	Information: No reset required.

## 1.23 6010, Software reset (watchdog)

A time out happened.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6010	24592
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A fatal error occurred. A device reboot is required.
Possible Causes	Solutions
An unknown software failure happened.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.

## 1.24 6080, Failure config bits

A failure in the internal configuration happened.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6080	24704
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.
Possible Causes	Solutions
The firmware update was not succesfully.	Switch off the mains voltage and the 24V-supply. Switch on them again and start a new firmware update. If this error happens repeatedly, please contact your competent Beckhoff office.

## 1.25 6310, Loss of parameters

Default values of parameters could not be loaded.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6310	25360
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.
Possible Causes	Solutions
Device ids or power board ids are missing in eeprom.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.

## 1.26 6320, Parameter error

A parametrization error happened.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6320	25376

  

Class	Type
Error	Error

  

Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Parameter values are not plausible to each other.	Check the parameter values and correct them.

## 1.27 6380, Parameter 0x%x/%x with parametrized 0x%x/ %x is too low

Value of first parameter is too low by value of second parameter.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6380	25472
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Parametrized DC link max voltage (0x8000:01) is too low for parametrized mains voltage (0x8000:06).	Look at the internal calculated values 0x9006:0C and 0x9006:0E. The first one must be higher than second one. Parametrize 0x8000:01 and 0x8000:06 again, so that this is achieved.

## 1.28 6381, Parameter 0x%x/%x with parametrized 0x%x/ %x is too high

Value of first parameter is too high by value of second parameter.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6381	25473
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Parametrized mains voltage min tolerance (0x8000:08) is too high for parametrized mains voltage (0x8000:06).	Parametrize 0x8000:08 or 0x8000:06 so that the value of object 0x9006:0F is not exceeded.
Parametrized mains voltage (0x8000:06) is too high for parametrized mains mains type (0x8000:04).	Parametrize 0x8000:07 or 0x8000:06 so that the value of object 0x9006:0E is not exceeded.
Parametrized mains voltage max tolerance (0x8000:07) is too high for parametrized mains voltage (0x8000:06).	Parametrize 0x8000:07 or 0x8000:06 so that the value of object 0x9006:0E is not exceeded.



## 1.29 6382, Value of parameter 0x%x/%x not supported

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
6382	25474

  

Class	Type
Error	Error

  

Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	Execute Reset-Command (Fault reset).

## 1.30 7111, Failure brake chopper

Brake chopper failed.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7111	28945

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Torque off order to the axis	A reset is not possible. The PSM detected a fatal hard- or software error.

  

Possible Causes	Solutions
Brake chopper is damaged.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.

## 1.31 7112, Over current brake chopper

Your connected brake resistor (internal or external) was overloaded.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7112	28946
Class	Type
Error	Error
Standard Reaction	Reset
Brake chopper is disabled	A reset is not possible. The PSM detected a fatal hard- or software error.
Possible Causes	Solutions
Current at connected brake resistor is too high. The brake resistor may be damaged.	Switch off the mains voltage and the 24V-supply. Check whether your brake resistor is damaged, if external one connected. Try to operate power supply module again. If this error happens repeatedly, please contact your competent Beckhoff office.
Your applikation is so designed, that this exceeds the maximal allowed current at the brake resistor.	Analyze your application and make that this overcurrent does not happen.

## 1.32 7180, Brake resistor not found

No connected brake resistor could be detected.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7180	29056
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate	Execute Reset-Command (Fault reset).
Possible Causes	Solutions
Internal brake resistor is faulty and any external brake resistor has not been connected.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.
The connection bridge for the internal brake resistor is not pugged in, an external brake resistor has been connected but this may be damaged.	Check your external brake resistor. If this is not damaged, try to operate the power supply module again. If this error happens repeatedly, please contact your competent Beckhoff office.
The connection bridge for the internal brake resistor is missing and any external brake resistor has not been connected.	Plug in the connection bridge or connect an external brake resistor.

### 1.33 7181, Brake resistor power overload by DC link over-voltage

Brake resistor was disabled because of power overload. As result over-voltage at dc link.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7181	29057

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Non-generative brake ramp order to the axis	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
Your application is so designed, that a dc link overvoltage overloads the brake resistor.	Analyze your application and make, that this overload does not happen.

## 1.34 7182, Wrong xml file

Device description file does not match to device or to firmware.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7182	29058
Class	Type
Error	Error
Standard Reaction	Reset
PSM is not ready to operate and transition PREOP to SAFEOP disabled	A reset is not possible. The PSM detected a fatal hard- or software error.
Possible Causes	Solutions
Wrong file by firmware update choosen.	Start again a firmware update with the right file.
The firmware or device description files do not match to device.	Check the files. Change them or change the device, if necessary.
Wrong file by device description update choosen.	Start again a firmware update with the right file. A separate device description update is not necessary because this is made automatically by a firmware update.

## 1.35 71A0, Brake resistor overloaded

The brake resistor is overloaded over the parametrized warning threshold.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
71A0	29088

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.

## 1.36 7580, I2C communication failure

Failure at I2C bus.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
7580	30080

  

Class	Type
Error	Error

  

Standard Reaction	Reset
PSM is not ready to operate	Execute Reset-Command (Fault reset).

  

Possible Causes	Solutions
A I2C-member is hanging and a reset of the I2C-bus failed.	Switch off the mains voltage and the 24V-supply. Switch on them again. If this error happens repeatedly, please contact your competent Beckhoff office.



## 1.37 FF01, Error reaction forced: Generative brake order

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF01	65281

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Generative brake ramp order to the axis	Execute Reset-Command (Fault reset).

## 1.38 FF02, Error reaction forced: Non-generative brake order

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF02	65282

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Non-generative brake ramp order to the axis	Execute Reset-Command (Fault reset).

## 1.39 FF03, Error reaction forced: Brake chopper off

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF03	65283

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Brake chopper is disabled	Execute Reset-Command (Fault reset).

## 1.40 FF07, Error reaction forced: Torque Off order

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF07	65287

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Torque off order to the axis	Execute Reset-Command (Fault reset).

## 1.41 FF0B, Error reaction forced: NC handling order

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF0B	65291

  

Class	Type
Error	Error

  

Standard Reaction	Reset
NC-Handling order	Execute Reset-Command (Fault reset).

## 1.42 FF1C, Load resistor overloaded with error reaction brake

Dc link load resistor overloaded over 65%.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF1C	65308

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Generative brake ramp order to the axis	Execute Reset-Command (Fault reset).

## 1.43 FF1D, Load resistor overloaded with error reaction torque off

Dc link load resistor overloaded over 90%.

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FF1D	65309

  

Class	Type
Error	Error

  

Standard Reaction	Reset
Torque off order to the axis	Execute Reset-Command (Fault reset).

## 1.44 FFA0, Fan malfunction

Fan does not work

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFA0	65440

  

Class	Type
Warning	Warning

  

Standard Reaction	Reset
No	Warning: No reset required.



## 1.45 FFD0, Debug firmware

Debug firmware: Replace ASAP!

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFD0	65488

  

Class	Type
Info	Information

  

Standard Reaction	Reset
No	Information: No reset required.

## 1.46 FFD1, Dbg: %s

Diagnostic Code (Hex.)	Diagnostic Code (Dez.)
FFD1	65489

  

Class	Type
Info	Information

  

Standard Reaction	Reset
No	Information: No reset required.



More Information:  
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