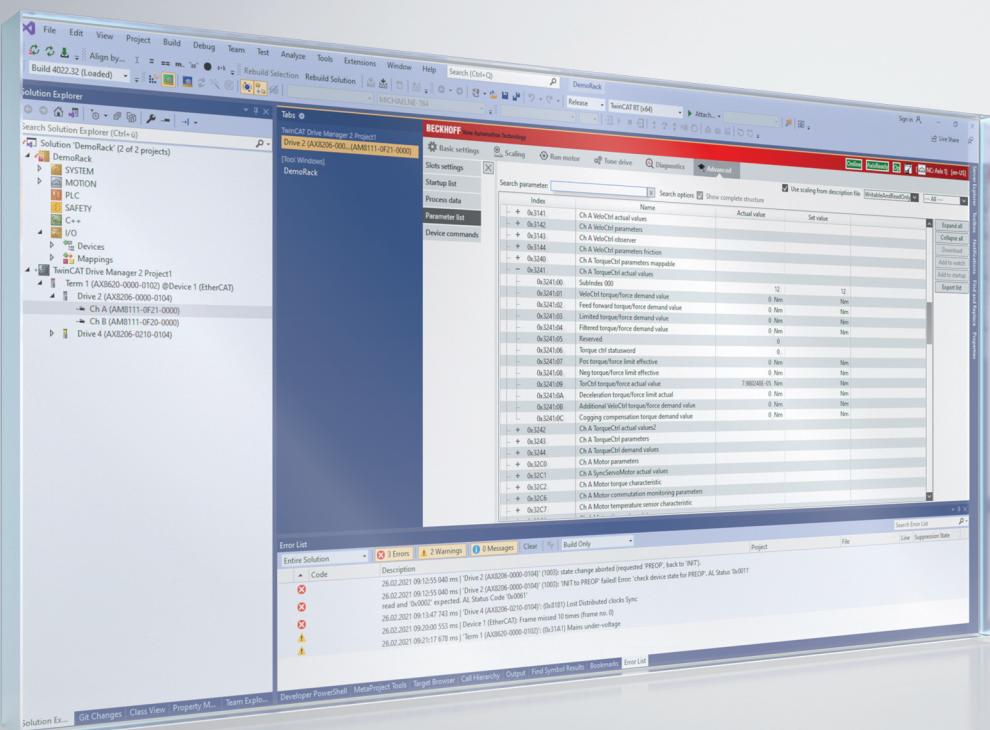


Object Dictionary | EN

AMP8620 | AMP8805 | AX883x | AX8600





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# 1 Standard-Objects

## 1.1 1000 Device type

Description	Value
Index	0x1000 (Device)
Subindex	0x00
Datatype	UINT32
Min. Value	
Default	5001 (0x00001389)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.2 1008 Device name

Description	Value
Index	0x1008 (Device)
Subindex	0x00
Datatype	VISIBLE_STRING
Min. Value	
Default	AMP8620-0000 AMP8805-0000 AX8832-0000 AX8600-0000
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.3 1009 Hardware version

Description	Value
Index	0x1009 (Device)
Subindex	0x00
Datatype	VISIBLE_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.4 100A Software version

Description	Value
Index	0x100A (Device)
Subindex	0x00
Datatype	VISIBLE_STRING
Min. Value	
Default	00
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.5 100B Bootloader version

Description	Value
Index	0x100B (Device)
Subindex	0x00
Datatype	VISIBLE_STRING
Min. Value	
Default	N/A
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.6 1018:x Identity

Description	Value
Index	0x1018 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	4 (0x04)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.6.1 1018:01 Vendor ID

Description	Value
Index	0x1018 (Device)
Subindex	0x01
Datatype	UINT32
Min. Value	
Default	2 (0x00000002)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.6.2 1018:02 Product code

Description	Value
Index	0x1018 (Device)
Subindex	0x02
Datatype	UINT32
Min. Value	
Default	1672457929 (0x63AFAEC9) for AMP8620 1672460889 (0x63AFBA59) for AMP8805 578838546 (0x22806012) for AX883x 563634194 (0x21986012) for AX8600
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.6.3 1018:03 Revision

Description	Value
Index	0x1018 (Device)
Subindex	0x03
Datatype	UINT32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.6.4 1018:04 Serial number

Description	Value
Index	0x1018 (Device)
Subindex	0x04
Datatype	UINT32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.7 10E2:x Manufacturer-specific Identification Code

Description	Value
Index	0x10E2 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	1 (0x01)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.7.1 10E2:01 SubIndex 001

Description	Value
Index	0x10E2 (Device)
Subindex	0x01
Datatype	VISIBLE_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8 10F3:x Diagnosis History

Description	Value
Index	0x10F3 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	35 (0x23)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.1 10F3:01 Maximum Messages

Description	Value
Index	0x10F3 (Device)
Subindex	0x01
Datatype	UINT8
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.2 10F3:02 Newest Message

Description	Value
Index	0x10F3 (Device)
Subindex	0x02
Datatype	UINT8
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.3 10F3:03 Newest Acknowledged Message

Description	Value
Index	0x10F3 (Device)
Subindex	0x03
Datatype	UINT8
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

### 1.8.4 10F3:04 New Messages Available

Description	Value
Index	0x10F3 (Device)
Subindex	0x04
Datatype	BOOL
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.5 10F3:05 Flags

Description	Value
Index	0x10F3 (Device)
Subindex	0x05
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

## 1.8.6 10F3:06 Diagnosis Message 001

Description	Value
Index	0x10F3 (Device)
Subindex	0x06
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.7 10F3:07 Diagnosis Message 002

Description	Value
Index	0x10F3 (Device)
Subindex	0x07
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.8 10F3:08 Diagnosis Message 003

Description	Value
Index	0x10F3 (Device)
Subindex	0x08
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.9 10F3:09 Diagnosis Message 004

Description	Value
Index	0x10F3 (Device)
Subindex	0x09
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.10 10F3:0A Diagnosis Message 005

Description	Value
Index	0x10F3 (Device)
Subindex	0x0A
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.11 10F3:0B Diagnosis Message 006

Description	Value
Index	0x10F3 (Device)
Subindex	0x0B
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.12 10F3:0C Diagnosis Message 007

Description	Value
Index	0x10F3 (Device)
Subindex	0x0C
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.13 10F3:0D Diagnosis Message 008

Description	Value
Index	0x10F3 (Device)
Subindex	0x0D
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.14 10F3:0E Diagnosis Message 009

Description	Value
Index	0x10F3 (Device)
Subindex	0x0E
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.15 10F3:0F Diagnosis Message 010

Description	Value
Index	0x10F3 (Device)
Subindex	0x0F
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.16 10F3:10 Diagnosis Message 011

Description	Value
Index	0x10F3 (Device)
Subindex	0x10
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.17 10F3:11 Diagnosis Message 012

Description	Value
Index	0x10F3 (Device)
Subindex	0x11
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.18 10F3:12 Diagnosis Message 013

Description	Value
Index	0x10F3 (Device)
Subindex	0x12
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.19 10F3:13 Diagnosis Message 014

Description	Value
Index	0x10F3 (Device)
Subindex	0x13
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.20 10F3:14 Diagnosis Message 015

Description	Value
Index	0x10F3 (Device)
Subindex	0x14
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.21 10F3:15 Diagnosis Message 016

Description	Value
Index	0x10F3 (Device)
Subindex	0x15
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.22 10F3:16 Diagnosis Message 017

Description	Value
Index	0x10F3 (Device)
Subindex	0x16
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.23 10F3:17 Diagnosis Message 018

Description	Value
Index	0x10F3 (Device)
Subindex	0x17
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.24 10F3:18 Diagnosis Message 019

Description	Value
Index	0x10F3 (Device)
Subindex	0x18
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.25 10F3:19 Diagnosis Message 020

Description	Value
Index	0x10F3 (Device)
Subindex	0x19
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.8.26 10F3:1A Diagnosis Message 021

Description	Value
Index	0x10F3 (Device)
Subindex	0x1A
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.27 10F3:1B Diagnosis Message 022

Description	Value
Index	0x10F3 (Device)
Subindex	0x1B
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.28 10F3:1C Diagnosis Message 023

Description	Value
Index	0x10F3 (Device)
Subindex	0x1C
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.29 10F3:1D Diagnosis Message 024

Description	Value
Index	0x10F3 (Device)
Subindex	0x1D
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.30 10F3:1E Diagnosis Message 025

Description	Value
Index	0x10F3 (Device)
Subindex	0x1E
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.31 10F3:1F Diagnosis Message 026

Description	Value
Index	0x10F3 (Device)
Subindex	0x1F
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.32 10F3:20 Diagnosis Message 027

Description	Value
Index	0x10F3 (Device)
Subindex	0x20
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.33 10F3:21 Diagnosis Message 028

Description	Value
Index	0x10F3 (Device)
Subindex	0x21
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.34 10F3:22 Diagnosis Message 029

Description	Value
Index	0x10F3 (Device)
Subindex	0x22
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.8.35 10F3:23 Diagnosis Message 030

Description	Value
Index	0x10F3 (Device)
Subindex	0x23
Datatype	OCTET_STRING
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.9 10F8 Timestamp Object

Description	Value
Index	0x10F8 (Device)
Subindex	0x00
Datatype	UINT64
Min. Value	
Default	
Max. Value	
Unit	ns
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.10 1C00:x Sync manager type

Description	Value
Index	0x1C00 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	4 (0x04)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.10.1 1C00:01 SubIndex 001

Description	Value
Index	0x1C00 (Device)
Subindex	0x01
Datatype	UINT8
Min. Value	
Default	1 (0x01)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.10.2 1C00:02 SubIndex 002

Description	Value
Index	0x1C00 (Device)
Subindex	0x02
Datatype	UINT8
Min. Value	
Default	2 (0x02)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.10.3 1C00:03 SubIndex 003

Description	Value
Index	0x1C00 (Device)
Subindex	0x03
Datatype	UINT8
Min. Value	
Default	3 (0x03)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.10.4 1C00:04 SubIndex 004

Description	Value
Index	0x1C00 (Device)
Subindex	0x04
Datatype	UINT8
Min. Value	
Default	4 (0x04)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.11 1C12:x RxPDO assign

Description	Value
Index	0x1C12 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.11.1 1C12:01 Subindex 001

Description	Value
Index	0x1C12 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	5632 (0x1600)
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.12 1C13:x TxPDO assign

Description	Value
Index	0x1C13 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

**1.12.1 1C13:01 Subindex 001**

Description	Value
Index	0x1C13 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	6656 (0x1A00)
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

**1.12.2 1C13:02 Subindex 002**

Description	Value
Index	0x1C13 (Device)
Subindex	0x02
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

**1.12.3 1C13:03 Subindex 003**

Description	Value
Index	0x1C13 (Device)
Subindex	0x03
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.12.4 1C13:04 Subindex 004

Description	Value
Index	0x1C13 (Device)
Subindex	0x04
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.13 1C32:x SM output parameter

Description	Value
Index	0x1C32 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	32 (0x20)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.13.1 1C32:01 Sync mode

Description	Value
Index	0x1C32 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	1 (0x0001)
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

## 1.13.2 1C32:02 Cycle time

Description	Value
Index	0x1C32 (Device)
Subindex	0x02
Datatype	UINT32
Min. Value	
Default	125000 (0x0001E848)
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

## 1.13.3 1C32:03 Shift time

Description	Value
Index	0x1C32 (Device)
Subindex	0x03
Datatype	UINT32
Min. Value	
Default	900 (0x00000384)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.13.4 1C32:04 Sync modes supported

Description	Value
Index	0x1C32 (Device)
Subindex	0x04
Datatype	UINT16
Min. Value	
Default	3080 (0x0C08)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.13.5 1C32:05 Minimum cycle time

Description	Value
Index	0x1C32 (Device)
Subindex	0x05
Datatype	UINT32
Min. Value	
Default	62500 (0x0000F424)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.13.6 1C32:06 Calc and copy time

Description	Value
Index	0x1C32 (Device)
Subindex	0x06
Datatype	UINT32
Min. Value	
Default	0
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.13.7 1C32:09 Maximum delay time

Description	Value
Index	0x1C32 (Device)
Subindex	0x09
Datatype	UINT32
Min. Value	
Default	900 (0x00000384)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.13.8 1C32:0B SM event missed counter

Description	Value
Index	0x1C32 (Device)
Subindex	0x0B
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.13.9 1C32:0C Cycle exceeded counter

Description	Value
Index	0x1C32 (Device)
Subindex	0x0C
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.13.10 1C32:0D Shift too short counter

Description	Value
Index	0x1C32 (Device)
Subindex	0x0D
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.13.11 1C32:20 Sync error

Description	Value
Index	0x1C32 (Device)
Subindex	0x20
Datatype	BOOL
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14 1C33:x SM input parameter

Description	Value
Index	0x1C33 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	32 (0x20)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.1 1C33:01 Sync mode

Description	Value
Index	0x1C33 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	3 (0x0003)
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

## 1.14.2 1C33:02 Cycle time

Description	Value
Index	0x1C33 (Device)
Subindex	0x02
Datatype	UINT32
Min. Value	
Default	125000 (0x0001E848)
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

## 1.14.3 1C33:03 Shift time

Description	Value
Index	0x1C33 (Device)
Subindex	0x03
Datatype	UINT32
Min. Value	
Default	62500 (0x0000F424)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.4 1C33:04 Sync modes supported

Description	Value
Index	0x1C33 (Device)
Subindex	0x04
Datatype	UINT16
Min. Value	
Default	3080 (0x0C08)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.5 1C33:05 Minimum cycle time

Description	Value
Index	0x1C33 (Device)
Subindex	0x05
Datatype	UINT32
Min. Value	
Default	62500 (0x0000F424)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.6 1C33:06 Calc and copy time

Description	Value
Index	0x1C33 (Device)
Subindex	0x06
Datatype	UINT32
Min. Value	
Default	0
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.7 1C33:07 Minimum delay time

Description	Value
Index	0x1C33 (Device)
Subindex	0x07
Datatype	UINT32
Min. Value	
Default	900 (0x00000384)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.8 1C33:09 Maximum delay time

Description	Value
Index	0x1C33 (Device)
Subindex	0x09
Datatype	UINT32
Min. Value	
Default	900 (0x00000384)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.9 1C33:0B SM event missed counter

Description	Value
Index	0x1C33 (Device)
Subindex	0x0B
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.10 1C33:0C Cycle exceeded counter

Description	Value
Index	0x1C33 (Device)
Subindex	0x0C
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.11 1C33:0D Shift too short counter

Description	Value
Index	0x1C33 (Device)
Subindex	0x0D
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.14.12 1C33:20 Sync error

Description	Value
Index	0x1C33 (Device)
Subindex	0x20
Datatype	BOOL
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.15 2C03:x Power supply Connection

This object contains parameter about the connected power supply device.

Description	Value
Index	0x2C03 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	5 (0x05)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.15.1 2C03:01 Power supply EtherCAT Address

Please enter the EtherCAT address of the connected power supply device here.

Description	Value
Index	0x2C03 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

## 1.15.2 2C03:02 Address valid

Shall be set to TRUE internally, if the given power supply EtherCAT address is valid.

Description	Value
Index	0x2C03 (Device)
Subindex	0x02
Datatype	BOOL
Min. Value	
Default	FALSE
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.15.3 2C03:04 Readdata valid

Shall be set to TRUE internally, if the given power supply read data is valid.

Description	Value
Index	0x2C03 (Device)
Subindex	0x04
Datatype	BOOL
Min. Value	
Default	FALSE
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.15.4 2C03:05 Device compatible

Shall be set to TRUE internally, if the connected power supply is detected as compatible.

Description	Value
Index	0x2C03 (Device)
Subindex	0x05
Datatype	BOOL
Min. Value	
Default	FALSE
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.16 2C20:x PSM Statusword

This object contains the status of the module

Description	Value
Index	0x2C20 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	1 (0x01)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.16.1 2C20:01 Statusword

Status bits: - Bit 0: Ready to operate dc output 1 - Bit 1: Error active - Bit 2: Warning active - Bit 3: Reserved - Bit 4: Brake chopper active - Bit 5: Fan active - Bit 6: Charging active - Bit 7: Dc out 1 active - Bit 8 - 9: Reserved - Bit 10: Dc out 2 active - Bit 11: Ready to operate dc output 2 - Bit 12: Energy recovery active - Bit 13 - 15: Reserved

Description	Value
Index	0x2C20 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.17 2C21:x PSM Controlword in

This object provides the command sent by this module

Description	Value
Index	0x2C21 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	1 (0x01) for AMP8620, AMP8805 and AX8600 2 (0x02) for AX883x
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.17.1 2C21:01 Controlword 1 in

Control bits on dc out 1: - Bit 0: Non generative brake order - Bit 1: Ready to operate - Bit 2: Torque off order - Bit 3: Generative brake order - Bit 4: Limit dc link current order - Bit 5: Nc handling order - Bit 6 - 10: Reserved - Bit 11 - 15: Counter

Description	Value
Index	0x2C21 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

### 1.17.2 2C21:02 Controlword 2 in

Control bits on dc out 2 (only available on device with 2 dc outputs): - Bit 0: Non generative brake order - Bit 1: Ready to operate - Bit 2: Torque off order - Bit 3: Generative brake order - Bit 4: Limit dc link current order - Bit 5: Nc handling order - Bit 6 - 10: Reserved - Bit 11 - 15: Counter

Description	Value
Index	0x2C21 (Device)
Subindex	0x02
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.18 2C22:x PSM Actual voltages

This object contains the actual voltages

Description	Value
Index	0x2C22 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	64 (0x40) for AMP8620, AMP8805 and AX8600 32 (0x20) for AX883x
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.18.1 2C22:01 Actual mains voltage

Actual RMS-value of mains voltage

Description	Value
Index	0x2C22 (Device)
Subindex	0x01
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

### 1.18.2 2C22:02 Actual mains L1-L2 voltage

Actual value of mains voltage L1 to L2.

Description	Value
Index	0x2C22 (Device)
Subindex	0x02
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

### 1.18.3 2C22:03 Actual mains L2-L3 voltage

Actual value of mains voltage L2 to L3.

Description	Value
Index	0x2C22 (Device)
Subindex	0x03
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

### 1.18.4 2C22:04 Actual mains L3-L1 voltage

Actual value of mains voltage L3 to L1.

Description	Value
Index	0x2C22 (Device)
Subindex	0x04
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

### 1.18.5 2C22:20 Actual DC link voltage

Actual voltage value at the DC link.

Description	Value
Index	0x2C22 (Device)
Subindex	0x20
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.18.6 2C22:40 Actual 24V voltage

Actual voltage value at the 24V side.

Description	Value
Index	0x2C22 (Device)
Subindex	0x40
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.18.7 2C22:40 Actual Input voltage

Actual voltage value at Input.

Description	Value
Index	0x2C22 (Device)
Subindex	0x40
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	V
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19 2C23:x PSM Actual currents

This object contains the actual currents

Description	Value
Index	0x2C23 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	66 (0x42) for AMP8620 and AMP8805 33 (0x21) for AX8600 34 (0x22) for AX883x
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.19.1 2C23:20 Actual DC link total current

Actual total current at DC output.

Description	Value
Index	0x2C23 (Device)
Subindex	0x20
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.2 2C23:21 Actual DC link out 1 current

Actual current at DC output 1.

Description	Value
Index	0x2C23 (Device)
Subindex	0x21
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.3 2C23:22 Actual DC link out 2 current

Actual current at DC output 2.

Description	Value
Index	0x2C23 (Device)
Subindex	0x22
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.4 2C23:23 Actual DC link out 3 current

Actual current at DC output 3.

Description	Value
Index	0x2C23 (Device)
Subindex	0x23
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.5 2C23:24 Actual DC link out 4 current

Actual current at DC output 4.

Description	Value
Index	0x2C23 (Device)
Subindex	0x24
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.6 2C23:25 Actual DC link out 5 current

Actual current at DC output 5.

Description	Value
Index	0x2C23 (Device)
Subindex	0x25
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.7 2C23:40 Actual 24V total current

Actual total current at 24V output.

Description	Value
Index	0x2C23 (Device)
Subindex	0x40
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.8 2C23:41 Actual 24V M8 total current

Actual current at 24V M8 output.

Description	Value
Index	0x2C23 (Device)
Subindex	0x41
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.19.9 2C23:42 Actual 24V B23 total current

Actual current at 24V B23 output.

Description	Value
Index	0x2C23 (Device)
Subindex	0x42
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	A
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20 2C24:x PSM Actual data

This object contains the actual data

Description	Value
Index	0x2C24 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	160 (0xA0)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.20.1 2C24:01 Actual mains supply frequency

Estimated frequency of power supply.

Description	Value
Index	0x2C24 (Device)
Subindex	0x01
Datatype	UINT8
Min. Value	
Default	
Max. Value	
Unit	Hz
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.2 2C24:02 Actual mains supply type

Estimated power supply type. AC\_3phases = 0 AC\_1phases = 1

Description	Value
Index	0x2C24 (Device)
Subindex	0x02
Datatype	ENUM (UINT8)
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

Enum Value	Description
1 (0x01)	AC 1 phase
0 (0x00)	AC 3 phases

## 1.20.3 2C24:20 Actual DC link total load utilization

Total load utilization at dc link output.

Description	Value
Index	0x2C24 (Device)
Subindex	0x20
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.4 2C24:21 Actual DC link total overload utilization

Total overload at dc link output.

Description	Value
Index	0x2C24 (Device)
Subindex	0x21
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.5 2C24:30 Actual DC link out 1 load utilization

Load utilization at DC output 1.

Description	Value
Index	0x2C24 (Device)
Subindex	0x30
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.6 2C24:31 Actual DC link out 1 overload utilization

Overload at dc link output 1.

Description	Value
Index	0x2C24 (Device)
Subindex	0x31
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.7 2C24:35 Actual DC link out 2 overload utilization

Overload at dc link output 2.

Description	Value
Index	0x2C24 (Device)
Subindex	0x35
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.8 2C24:39 Actual DC link out 3 overload utilization

Overload at dc link output 3.

Description	Value
Index	0x2C24 (Device)
Subindex	0x39
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.9 2C24:3D Actual DC link out 4 overload utilization

Overload at dc link output 4.

Description	Value
Index	0x2C24 (Device)
Subindex	0x3D
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.10 2C24:41 Actual DC link out 5 overload utilization

Overload at dc link output 5.

Description	Value
Index	0x2C24 (Device)
Subindex	0x41
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.11 2C24:80 Actual brake resistor load utilization

Load utilization at brake resistor.

Description	Value
Index	0x2C24 (Device)
Subindex	0x80
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.12 2C24:90 Actual 24V total load utilization

Total load utilization at 24V output.

Description	Value
Index	0x2C24 (Device)
Subindex	0x90
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.13 2C24:91 Actual 24V M8 load utilization

Load utilization at 24V M8 output.

Description	Value
Index	0x2C24 (Device)
Subindex	0x91
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.14 2C24:92 Actual 24V B23 load utilization

Load utilization at 24V B23 output.

Description	Value
Index	0x2C24 (Device)
Subindex	0x92
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.20.15 2C24:A0 Actual device temperature

Actual device temperature.

Description	Value
Index	0x2C24 (Device)
Subindex	0xA0
Datatype	INT16
Min. Value	
Default	
Max. Value	
Unit	0,1 °C
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21 2C25:x PSM Actual diagnostics

This object contains the diagnostic values

Description	Value
Index	0x2C25 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	32 (0x20)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.21.1 2C25:01 DC link state machine

Actual value of Dc link state machine

Description	Value
Index	0x2C25 (Device)
Subindex	0x01
Datatype	ENUM (UINT8)
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

Enum Value	Description
90 (0x5A)	WaitingForDC_48V
52 (0x34)	ForcingModeEnd
51 (0x33)	ForcingMode
50 (0x32)	ForcingModeEntry
20 (0x14)	ErrorStateWithout24Vdc
14 (0x0E)	ErrorPowerLoss
12 (0x0C)	ErrorState
11 (0x0B)	ActivateCharginglgbt
6 (0x06)	PowerLoss_ChargeResistorActive
5 (0x05)	RtO_ShortPowerLoss
4 (0x04)	RtO_Run
3 (0x03)	DcLinkOk
2 (0x02)	CheckChopperConnection
1 (0x01)	BypassChargeResistor
0 (0x00)	WaitingForCharging

## 1.21.2 2C25:02 Umains state machine

Actual value of Umains state

Description	Value
Index	0x2C25 (Device)
Subindex	0x02
Datatype	ENUM (UINT8)
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

Enum Value	Description
5 (0x05)	PowerSupplyTypeDetection
4 (0x04)	UmainsTooHigh
3 (0x03)	UmainsTooLow
2 (0x02)	UmainsLoss
1 (0x01)	UmainsOk
0 (0x00)	UmainsOff

## 1.21.3 2C25:03 Actual error code

Actual error code.

Description	Value
Index	0x2C25 (Device)
Subindex	0x03
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.4 2C25:10 Debug pointer data 1

Actual value at debug pointer data 1.

Description	Value
Index	0x2C25 (Device)
Subindex	0x10
Datatype	INT32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.5 2C25:11 Debug pointer data 2

Actual value at debug pointer data 2.

Description	Value
Index	0x2C25 (Device)
Subindex	0x11
Datatype	INT32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.6 2C25:12 Debug pointer data 3

Actual value at debug pointer data 3.

Description	Value
Index	0x2C25 (Device)
Subindex	0x12
Datatype	INT32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.7 2C25:13 Debug pointer data 4

Actual value at debug pointer data 4.

Description	Value
Index	0x2C25 (Device)
Subindex	0x13
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.8 2C25:14 Debug pointer data 5

Actual value at debug pointer data 5.

Description	Value
Index	0x2C25 (Device)
Subindex	0x14
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.9 2C25:15 Debug pointer data 6

Actual value at debug pointer data 6.

Description	Value
Index	0x2C25 (Device)
Subindex	0x15
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.10 2C25:16 Debug pointer data 7

Actual value at debug pointer data 7.

Description	Value
Index	0x2C25 (Device)
Subindex	0x16
Datatype	REAL32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.21.11 2C25:20 Warning register

Actual warning status. - Bit 0: Reserved - Bit 1: BrakeResistorLoadUtilisationReached - Bit 2: DeviceOvertemperature - Bit 3: DClkContinuousOvercurrent - Bit 4: FanMalfunction - Bit 5 - 15: Reserved

Description	Value
Index	0x2C25 (Device)
Subindex	0x20
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Transmit
Revision	All

## 1.22 2C26:x PSM Controlword out

This object contains the controlword receiving from Master

Description	Value
Index	0x2C26 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	1 (0x01)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.22.1 2C26:01 Controlword out

Control bits: - Bit 0: Non generative brake order - Bit 1: Ready to operate - Bit 2: Torque off order - Bit 3: Generative brake order - Bit 4: Limit dc link current order - Bit 5: Nc handling order - Bit 6 - 10: Reserved - Bit 11 - 15: Counter

Description	Value
Index	0x2C26 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	Receive
Revision	All

## 1.23 2C27:x PSM Standard parameters

This object shows the standard parameter of this module

Description	Value
Index	0x2C27 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	96 (0x60) 80 (0x50) for AX883x
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.23.1 2C27:01 Mains type

This parameter configures the mains type.

Description	Value
Index	0x2C27 (Device)
Subindex	0x01
Datatype	ENUM (UINT8)
Min. Value	
Default	AC 3 phases (0)
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

Enum Value	Description
1 (0x01)	AC 1 phase
0 (0x00)	AC 3 phases

### 1.23.2 2C27:03 Mains voltage

Connected mains RMS-voltage.

Description	Value
Index	0x2C27 (Device)
Subindex	0x03
Datatype	UINT16
Min. Value	180 (0x00B4)
Default	4000 (0x0FA0)
Max. Value	7000 (0x1B58)
Unit	0,1 V
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

### 1.23.3 2C27:04 Mains voltage max tolerance

Positive tolerance of parametrized mains voltage.

Description	Value
Index	0x2C27 (Device)
Subindex	0x04
Datatype	UINT16
Min. Value	0
Default	10 (0x000A)
Max. Value	50 (0x0032)
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

### 1.23.4 2C27:05 Mains voltage min tolerance

Negative tolerance of parametrized mains voltage.

Description	Value
Index	0x2C27 (Device)
Subindex	0x05
Datatype	UINT16
Min. Value	0
Default	25 (0x0019)
Max. Value	50 (0x0032)
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

### 1.23.5 2C27:20 DC link max voltage

Threshold for dc link overvoltage error.

Description	Value
Index	0x2C27 (Device)
Subindex	0x20
Datatype	UINT16
Min. Value	0
Default	8750 (0x222E)
Max. Value	8750 (0x222E)
Unit	0,1 V
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.6 2C27:21 DC link continuous overcurrent warning threshold

Above this value (percentage of nominal dc link current) the DC link continuous overcurrent warning is set.

Description	Value
Index	0x2C27 (Device)
Subindex	0x21
Datatype	UINT16
Min. Value	0
Default	90 (0x005A)
Max. Value	101 (0x0065)
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.7 2C27:30 Brake resistor select mode

This parameter configures the brake resistor.

Description	Value
Index	0x2C27 (Device)
Subindex	0x30
Datatype	ENUM (UINT8)
Min. Value	
Default	No brake resistor (0)
Max. Value	
Unit	
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

Enum Value	Description
2 (0x02)	External brake resistor
1 (0x01)	Internal brake resistor
0 (0x00)	No brake resistor

## 1.23.8 2C27:32 Brake resistor power warning threshold

Percentage value of the maximum brake resistor power.

Description	Value
Index	0x2C27 (Device)
Subindex	0x32
Datatype	UINT16
Min. Value	0
Default	90 (0x005A)
Max. Value	101 (0x0065)
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.9 2C27:33 External brake resistor value

Resistance value of external brake resistor.

Description	Value
Index	0x2C27 (Device)
Subindex	0x33
Datatype	UINT16
Min. Value	330 (0x014A)
Default	330 (0x014A)
Max. Value	500 (0x01F4)
Unit	0,1 W
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.10 2C27:34 External brake resistor continuous power

Threshold of brake resistor continuous power, above an error is generated.

Description	Value
Index	0x2C27 (Device)
Subindex	0x34
Datatype	UINT16
Min. Value	0
Default	0
Max. Value	1600 (0x0640)
Unit	W
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.11 2C27:35 External brake resistor time constant 1

This time constant is a parameter of thermal model. It should be estimated by DriveManager when a valid external brake resistor is chosen.

Description	Value
Index	0x2C27 (Device)
Subindex	0x35
Datatype	REAL32
Min. Value	-3.40282E+38
Default	0.0
Max. Value	3.40282E+38
Unit	s
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.12 2C27:36 External brake resistor time constant 2

This time constant is a parameter of thermal model. It should be estimated by DriveManager when a valid external brake resistor is chosen.

Description	Value
Index	0x2C27 (Device)
Subindex	0x36
Datatype	REAL32
Min. Value	-3.40282E+38
Default	0.0
Max. Value	3.40282E+38
Unit	s
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.13 2C27:37 External brake resistor partial fraction factor

This time constant is a parameter of thermal model. It should be estimated by DriveManager when a valid external brake resistor is chosen.

Description	Value
Index	0x2C27 (Device)
Subindex	0x37
Datatype	REAL32
Min. Value	-3.40282E+38
Default	0.0
Max. Value	3.40282E+38
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.14 2C27:40 24V overload shut down threshold

Percentage overload of the 24V power supply at which the axes are switched off.

Description	Value
Index	0x2C27 (Device)
Subindex	0x40
Datatype	UINT16
Min. Value	1 (0x0001)
Default	20 (0x0014)
Max. Value	101 (0x0065)
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.23.15 2C27:50 Device temperature warning threshold

Percentage value of the maximum temperature above which an overtemperature warning is generated.

Description	Value
Index	0x2C27 (Device)
Subindex	0x50
Datatype	UINT16
Min. Value	0
Default	90 (0x005A)
Max. Value	101 (0x0065)
Unit	%
Access / EtherCAT-State	Rw / PreOp
PDO Mapping	
Revision	All

## 1.24 2C29:x PSM Calculated parameters

This object is an extension of the standard parameter

Description	Value
Index	0x2C29 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	49 (0x31) for AMP8620 and AX8600 32 (0x20) for AMP8805 and AX883x
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.24.1 2C29:01 Mains voltage max threshold

Maximal RMS-value of mains voltage.

Description	Value
Index	0x2C29 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	0,1 V
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.24.2 2C29:02 Mains voltage min threshold

Minimal RMS-value of mains voltage.

Description	Value
Index	0x2C29 (Device)
Subindex	0x02
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	0,1 V
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.24.3 2C29:20 DC link min voltage

Minimal DC link voltage for device to be ready to operate.

Description	Value
Index	0x2C29 (Device)
Subindex	0x20
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	0,1 V
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.24.4 2C29:30 Brake chopper switchOn voltage threshold

Voltage threshold, above which the brake chopper is switched on.

Description	Value
Index	0x2C29 (Device)
Subindex	0x30
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	0,1 V
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.24.5 2C29:31 Brake chopper switchOff voltage threshold

Voltage threshold, below which the brake chopper is switched off.

Description	Value
Index	0x2C29 (Device)
Subindex	0x31
Datatype	UINT16
Min. Value	
Default	0
Max. Value	
Unit	0,1 V
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25 2C2A:x PSM Device info

Information about operation of the module

Description	Value
Index	0x2C2A (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	114 (0x72)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.1 2C2A:20 DC link nominal current

Nominal current supported by the device at DC link.

Description	Value
Index	0x2C2A (Device)
Subindex	0x20
Datatype	UINT16
Min. Value	
Default	2000 (0x07D0) for AMP8620, AMP8805 and AX883x 5000 (0x1388) for AX8600
Max. Value	
Unit	0,01 A
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.2 2C2A:21 DC link peak overcurrent threshold

Current threshold to set the error "Peak overcurrent (device output side)".

Description	Value
Index	0x2C2A (Device)
Subindex	0x21
Datatype	UINT16
Min. Value	
Default	4000 (0x0FA0) for AMP8620, AMP8805 and AX883x 10000 (0x2710) for AX8600
Max. Value	
Unit	0,01 A
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.3 2C2A:22 DC link max voltage

Maximal DC link voltage threshold supported by the device.

Description	Value
Index	0x2C2A (Device)
Subindex	0x22
Datatype	UINT16
Min. Value	
Default	9200 (0x23F0)
Max. Value	
Unit	0,1 V
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.4 2C2A:30 Internal brake resistor value

Resistance value of the internal brake resistor.

Description	Value
Index	0x2C2A (Device)
Subindex	0x30
Datatype	UINT16
Min. Value	
Default	330 (0x014A)
Max. Value	
Unit	0,1 W
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.5 2C2A:31 Internal brake resistor max power

Maximal continuous power of the internal brake resistor.

Description	Value
Index	0x2C2A (Device)
Subindex	0x31
Datatype	UINT16
Min. Value	
Default	80 (0x0050)
Max. Value	
Unit	W
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.6 2C2A:33 Internal brake resistor time constant 1

This time constant of thermal model is provided by firmware when the device supports an internal brake resistor.

Description	Value
Index	0x2C2A (Device)
Subindex	0x33
Datatype	REAL32
Min. Value	0.0
Default	0.315
Max. Value	3.40282E+38
Unit	s
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.7 2C2A:34 Internal brake resistor time constant 2

This time constant of thermal model is provided by firmware when the device supports an internal brake resistor.

Description	Value
Index	0x2C2A (Device)
Subindex	0x34
Datatype	REAL32
Min. Value	0.0
Default	61.9
Max. Value	3.40282E+38
Unit	s
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.8 2C2A:35 Internal brake resistor partial fraction factor

This partial fraction factor of thermal model is provided by firmware when the device supports an internal brake resistor.

Description	Value
Index	0x2C2A (Device)
Subindex	0x35
Datatype	REAL32
Min. Value	0.0
Default	3.12
Max. Value	3.40282E+38
Unit	%
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.9 2C2A:40 24V total nominal current

Nominal current of the 24V-supply supported by the device.

Description	Value
Index	0x2C2A (Device)
Subindex	0x40
Datatype	UINT16
Min. Value	
Default	1200 (0x04B0)
Max. Value	
Unit	0,01 A
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.10 2C2A:41 24V M8 total nominal current

Nominal current of the 24V-supply supported by the device. (M8 output)

Description	Value
Index	0x2C2A (Device)
Subindex	0x41
Datatype	UINT16
Min. Value	
Default	600 (0x0258)
Max. Value	
Unit	0,01 A
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.11 2C2A:42 24V B23 total nominal current

Nominal current of the 24V-supply supported by the device. (B23 output)

Description	Value
Index	0x2C2A (Device)
Subindex	0x42
Datatype	UINT16
Min. Value	
Default	600 (0x0258)
Max. Value	
Unit	0,01 A
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.12 2C2A:50 Device max temperature

Maximal heatsink temperature supported by the device, above which the error "Excess temperature device" is set.

Description	Value
Index	0x2C2A (Device)
Subindex	0x50
Datatype	UINT16
Min. Value	
Default	950 (0x03B6) for AMP8620 and AMP8805 800 (0x0320) for AX883x 900 (0x0384) for AX8600
Max. Value	
Unit	0,1 °C
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.25.13 2C2A:60 Operating time

Operation time in seconds.

Description	Value
Index	0x2C2A (Device)
Subindex	0x60
Datatype	UINT32
Min. Value	
Default	
Max. Value	
Unit	s
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.26 2C2B:x PSM Error handling

This object contains error handling.

Description	Value
Index	0x2C2B (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	17 (0x11)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

### 1.26.1 2C2B:01 Reset errors

All resetable errors will be reset.

Description	Value
Index	0x2C2B (Device)
Subindex	0x01
Datatype	BOOL
Min. Value	
Default	FALSE
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

### 1.26.2 2C2B:02 Force reaction

Enable forcing reaction mode.

Description	Value
Index	0x2C2B (Device)
Subindex	0x02
Datatype	BOOL
Min. Value	
Default	FALSE
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

### 1.26.3 2C2B:11 Choose forced reaction

List of error reactions.

Description	Value
Index	0x2C2B (Device)
Subindex	0x11
Datatype	ENUM (INT16)
Min. Value	
Default	TorqueOffOrder (0)
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All

Enum Value	Description
0 (0x0000)	TorqueOffOrder
-1 (0xFFFF)	NC handling order
-2 (0xFFFE)	Non generative brake order
-3 (0xFFFFD)	Generative brake order
-4 (0xFFFFC)	Brake chopper off

### 1.27 F000:x Modular Device Profile

Description	Value
Index	0xF000 (Device)
Subindex	0x00
Datatype	UINT8
Min. Value	
Default	2 (0x02)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

#### 1.27.1 F000:01 Index distance

Description	Value
Index	0xF000 (Device)
Subindex	0x01
Datatype	UINT16
Min. Value	
Default	16 (0x0010)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.27.2 F000:02 Maximum number of modules

Description	Value
Index	0xF000 (Device)
Subindex	0x02
Datatype	UINT16
Min. Value	
Default	1 (0x0001)
Max. Value	
Unit	
Access / EtherCAT-State	Ro
PDO Mapping	
Revision	All

## 1.28 F008 Code word

Description	Value
Index	0xF008 (Device)
Subindex	0x00
Datatype	UINT32
Min. Value	
Default	
Max. Value	
Unit	
Access / EtherCAT-State	Rw
PDO Mapping	
Revision	All



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