

## Parameter

Symbol	Meaning
Parameter name [Unit] xxxx[x...y]	Monitoring parameter (parameter may appear multiple times).
Parameter name [Unit] Index name xxxx[x]	Monitoring parameter with index (parameter may appear multiple times).
[aaaa.b]	
Parameter name from ... to [Unit] xxxx[y...z] (Def)	Setting parameter (if the parameter appears a multiple number of times, then diagram references are specified).
[aaaa.b]	
Parameter name Index name from ... to [Unit] xxxx[y] (Def)	Setting parameter with index (if the parameter appears a multiple number of times, then diagram references are specified).

## Connectors

Symbol	Meaning
Parameter name xxxx[y...z] [xxxx(y)]	Connector input CI with index range [y...z]
Parameter name Index name xxxx[y] [xxxx(x)]	Connector input CI with index [y]
Parameter name [Unit] xxxx[y...z]	Connector output CO with [dimension unit] and index range [y...z] (the parameter may appear multiple times).
Parameter name [Unit] Index name xxxx[y]	Connector output CO [dimension unit] and with index [y] (the parameter may appear multiple times).

## Binectors

Symbol	Meaning
Parameter name xxxx[y...z] [Def.x]	Binector input BI with index range [y...z] and factory setting (Def.x) with bit x.
Parameter name Bit name xxxx[y] [Def.x]	Binector input BI with index [y] and factory setting (Def.x) with bit x.
Parameter name xxxx	Binector output BO (the parameter may appear multiple times).
Parameter name Bit name xxxx.yy	Binector output BO with bit yy (the parameter may appear multiple times).

## Connectors/binectors

Symbol	Meaning
xxxxx	Connector/binector output CO/BO

## Cross references between diagrams

Symbol	Meaning
Signal path	The function diagrams are sub-divided into signal paths 1...8 in order to facilitate orientation.
Text → [aaaa.b]	Text = Unique signal designation aaaa = Signal goes to target diagram aaa b = Signal goes to signal path b
[cccc.d] → Text	Text = Unique signal designation cccc = Signal comes from source diagram cccc d = Signal comes from signal path d
To "function diagram name" [aaaa.b] = for binectors.	

## Cross references for control bits

Symbol	Meaning
pxxxx [aaaa.b]	pxxxx= Original parameter of signal aaaa = Signal comes from source diagram aaaa b = Signal comes from signal path b

## Sampling times

Symbol	Meaning
pxxxx[Y] (ZZZ.ZZ µs)	Setting parameter with factory setting to select the time slice.
p0115[y] (Drive Object)	Time slice depending on the pre-setting p0112 of the drive object.
p0115[y] (Motor Modules)	Time slice depending on the rated pulse frequency of the motor module.
PROFdrive sampling time	a) If clock-cycle synchronous, then bus cycle time like DP cycle (Tdp). b) Otherwise, according to presetting in p2048.
CAN bus sampling time	Time slice 4000.00 µs.
Background	There is no fixed sampling time for this function. The processing takes place in background. The cycle time depends on the computational load of the control unit.
Not relevant	A static state is displayed here. The sampling time data is not relevant.

## Data sets

### Symbol Meaning

pxxxx[C]	Parameter belongs to the Command Data Set (CDS).
pxxxx[D]	Parameter belongs to the Drive Data Set (DDS).
pxxxx[E]	Parameter belongs to the Encoder Data Set (EDS).
pxxxx[M]	Parameter belongs to the Motor Data Set (MDS).
pxxxx[P]	Parameter belongs to the Power unit Data Set (PDS).

## Information on parameters, binectors, connectors

Symbol	Meaning
Parameter name	Parameter name (up to 18 characters)
[Unit]	[dimension unit]
pxxxx[y] or pxxxx[y...z] or pxxxx[y].ww or pxxxx.ww	"r" = monitoring parameter. These parameters are read-only "xxxx" stands for the parameter number "[y]" specifies the valid index, "[y...z]" specifies the applicable index range .ww" specifies the bit number (e.g. 0...15).
pxxxx[y] or pxxxx[y...z] or pxxxx[y].ww or pxxxx.ww	"p" = setting parameter. These parameters can be changed. "xxxx" stands for the parameter number, "[y]" specifies the applicable index, "[y...z]" specifies the applicable index range .ww" specifies the bit number (e.g. 0...15).
from ... to	Value range.
(xxxx[y].ww)	Parameter number (xxxx) with Index number [y] and bit number .ww.
(Def)	Factory setting.
(Def.w)	Factory setting with bit number as prefix.
[aaaa.b]	Diagram references for setting parameters that occur a multiple number of times. [Function diagram number, signal path]

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DO: All objects

fp\_1020\_51\_eng.vsd

Function diagram

- 1020 -

Explanations for the function diagrams - Explanation of the symbols (Part 1)

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SINAMICS