

## Manufacturer's Declaration

Nr. / No. SIMOTION\_D\_Block\_Size\_668.DCO.C.1905.40.018

Manufacturer: SIEMENS Aktiengesellschaft

Address: SIEMENS Aktiengesellschaft; DF MC  
Frauenauracher Straße 80  
D-91056 Erlangen  
Germany

Product Description: **SIMOTION D Blocksize**  
(for included hardware and software releases see annex)

The functional safety functions "Basic Functions" (STO, SBC, SS1) and "Extended Functions" (STO, SBC, SS1, SS2, SLS, SOS, SSM, safe I/Os, SDI, SLP, SP) of the above mentioned product fulfil the requirements of SIL2 according to [1] and [4], PLd according to [2] and category 3 according to [2].

The functions STO, SS1 and SS2 correspond to stop category 0, stop category 1 and stop category 2 according to [3], respectively.

The safe break test (SBT) is suitable as diagnostic function according to [2] for a safely controlled brake (e.g. via SBC). By using a single break in a category 2 application or two brakes in a category 3 application with an appropriate test rate, it is possible to reach a performance level up to PLd.

### Reference number

- [1] IEC 61508, part 1 to 3 (2010)
- [2] ISO13849 part 1 (2015)
- [3] IEC 60204 (2005)
- [4] IEC 61800-5-2 (2016)

Erlangen, 19-05-21

X 

i.V. D. Vielsäcker  
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i.V. T. Heinzelmann  
Head of Quality Management  
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# 1 Software

## 1.1 Basic Functions

### 1.1.1 SIMOTION D Control Units and Control Extensions (1. Generation)

D435 6AU1435-0AA00-0AA0 6AU1435-0AA00-0AA1	D425 6AU1425-0AA00-0AA0 D445 6AU1445-0AA00-0AA0 D445-1 6AU1445-0AA00-0AA1 CX32 6SL3040-0NA00-0AA0	D410 DP 6AU1410-0AA00-0AA0 D410 PN 6AU1410-0AB00-0AA0	Safety-Firmware-Version
<b>Control Unit Processor</b>			
V 3.1.x.x	---	---	02.10.36.00
V 3.2.x.x	V 3.2.x.x	---	02.20.24.00
V 3.2.x.x	V 3.2.x.x	---	02.30.18.00 02.30.29.00 02.30.31.00
V 4.0.x.x	V 4.0.x.x	---	02.40.28.00 02.40.33.00 02.40.43.00
V 4.1.0.0	V 4.1.0.0	---	02.50.22.00
V 4.1.1.0 V 4.1.1.1 V 4.1.1.2 V 4.1.1.3 V 4.1.1.5	V 4.1.1.0 V 4.1.1.1 V 4.1.1.2 V 4.1.1.3 V 4.1.1.5	---	02.50.28.00
V 4.1.1.6 V 4.1.1.10 V 4.1.1.11	V 4.1.1.6 V 4.1.1.10 V 4.1.1.11	---	02.50.32.14
V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	02.50.39.00
V 4.1.2.9 V 4.1.4.1 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	V 4.1.2.9 V 4.1.4.1 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	V 4.1.2.9 V 4.1.4.1 V 4.1.4.2 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	02.50.49.00

D435 6AU1435-0AA00-0AA0 6AU1435-0AA00-0AA1	D425 6AU1425-0AA00-0AA0 D445 6AU1445-0AA00-0AA0 D445-1 6AU1445-0AA00-0AA1 CX32 6SL3040-0NA00-0AA0	D410 DP 6AU1410-0AA00-0AA0 D410 PN 6AU1410-0AB00-0AA0	Safety-Firmware-Version
V 4.1.4.1 V 4.1.4.3 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15 V 4.1.5.20 V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12 V 4.3.1.17 V 4.3.1.23	V 4.1.4.1 V 4.1.4.3 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15 V 4.1.5.20 V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12 V 4.3.1.17 V 4.3.1.23	V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12 V 4.3.1.17 V 4.3.1.23	02.60.40.00
<b>Power Module Control Processor</b>			
---	---	V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	02.50.39.00
---	---	V 4.1.2.9 V 4.1.4.1 V 4.1.4.2 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	02.50.49.00
---	---	V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12 V 4.3.1.17 V 4.3.1.23	02.60.40.00

### 1.1.2 SIMOTION D Control Units and Control Extensions (2. Generation)

D445-2 DP/PN 6AU1445-2AD00-0AA0 6AU1445-2AD00-0AA1 D455-2 DP/PN 6AU1455-2AD00-0AA0 CX32-2 6AU1432-2AA00-0AA0	D425-2 DP 6AU1425-2AA00-0AA0 D425-2 DP/PN 6AU1425-2AD00-0AA0 D435-2 DP 6AU1435-2AA00-0AA0 D435-2 DP/PN 6AU1435-2AD00-0AA0	D410-2 DP 6AU1410-2AA00-0AA0 D410-2 DP/PN 6AU1410-2AD00-0AA0	Safety-Firmware-Version
<b>Control Unit Processor</b>			
V 4.2.1.0 V 4.2.1.1 V 4.2.1.11 V 4.2.1.12	---	---	04.40.22.00
V 4.3.1.1	V 4.3.1.1	V 4.3.1.2	04.50.30.00
V 4.3.1.3 V 4.3.1.7 V 4.3.1.9 V 4.3.1.12 V 4.3.1.17	V 4.3.1.3 V 4.3.1.7 V 4.3.1.9 V 4.3.1.12 V 4.3.1.17	V 4.3.1.3 V 4.3.1.9 V 4.3.1.12 V 4.3.1.13 V 4.3.1.17	04.50.30.05
V 4.3.1.22	V 4.3.1.22	V 4.3.1.20	04.50.30.29
V 4.3.1.23	V 4.3.1.23	V 4.3.1.23	04.50.30.34
V 4.4.0.1 (RT <sup>1</sup> ) V 4.4.0.2 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.4	V 4.4.0.1 (RT <sup>1</sup> ) V 4.4.0.2 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.4	V 4.4.0.1 (RT <sup>1</sup> ) V 4.4.0.2 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.4 V 4.4.0.5	04.70.32.00
V 4.4.0.6 V 4.4.0.8 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.9 (ES <sup>2</sup> , TP <sup>3</sup> )	V 4.4.0.6 V 4.4.0.8 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.9 (ES <sup>2</sup> , TP <sup>3</sup> )	V 4.4.0.6 V 4.4.0.8 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.9 (ES <sup>2</sup> , TP <sup>3</sup> )	04.70.35.18
V 4.4.0.11	V 4.4.0.11	V 4.4.0.11	04.70.35.42
V 4.4.0.17	V 4.4.0.17	V 4.4.0.17	04.70.35.51
V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	04.80.60.00
V 5.2.1.0	V 5.2.1.0	V 5.2.1.0	05.10.16.00

<sup>1</sup> Runtime System

<sup>2</sup> Engineering System

<sup>3</sup> Technology Package

D445-2 DP/PN 6AU1445-2AD00-0AA0 6AU1445-2AD00-0AA1 D455-2 DP/PN 6AU1455-2AD00-0AA0 CX32-2 6AU1432-2AA00-0AA0	D425-2 DP 6AU1425-2AA00-0AA0 D425-2 DP/PN 6AU1425-2AD00-0AA0 D435-2 DP 6AU1435-2AA00-0AA0 D435-2 DP/PN 6AU1435-2AD00-0AA0	D410-2 DP 6AU1410-2AA00-0AA0 D410-2 DP/PN 6AU1410-2AD00-0AA0	Safety-Firmware-Version
<b>Power Module Control Processor</b>			
---	---	V 4.3.1.2	04.50.28.00
---	---	V 4.3.1.3 V 4.3.1.9 V 4.3.1.12 V 4.3.1.13 V 4.3.1.17 V 4.3.1.20 V 4.3.1.23	04.50.30.05
---	---	V 4.4.0.1 (RT <sup>1</sup> ) V 4.4.0.2 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.4 V 4.4.0.5	04.70.35.00
---	---	V 4.4.0.6 V 4.4.0.8 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.9 (ES <sup>2</sup> , TP <sup>3</sup> ) V 4.4.0.11 V 4.4.0.17	04.70.35.18
---	---	V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	04.80.60.00
---	---	V 5.2.1.0	05.10.16.00

### 1.1.3 SINAMICS S120 Control Extensions

CUA31 6SL3040-0PA00-0AA1 CUA32 6SL3040-0PA01-0AA0	Safety-Firmware-Version
V 2.4 SP1	02.40.35.06
V 2.5	02.50.32.00
V 2.6	02.60.30.00 02.60.40.00
V 4.3	04.30.14.00
V 4.4	04.40.23.04 04.40.23.22
V 4.5	04.50.28.00 04.50.30.05

CUA31 6SL3040-0PA00-0AA1 CUA32 6SL3040-0PA01-0AA0	Safety-Firmware-Version
V 4.6	04.60.16.00 04.60.21.05
V 4.7	04.70.35.00 04.70.35.18
V 4.8	04.80.60.00
V 5.1	05.10.16.00

## 1.2 Extended Functions

### 1.2.1 SIMOTION D Control Units and Control Extensions (1. Generation)

D425 6AU1425-0AA00-0AA0 D435 6AU1435-0AA00-0AA0 6AU1435-0AA00-0AA1 D445 6AU1445-0AA00-0AA0 D445-1 6AU1445-0AA00-0AA1 CX32 (control extension) 6SL3040-0NA00-0AA0	D410 DP 6AU1410-0AA00-0AA0 D410 PN 6AU1410-0AB00-0AA0	Safety-Firmware-Version
<b>Control Unit Processor</b>		
V 4.1.1.0 V 4.1.1.1 V 4.1.1.2 V 4.1.1.3 V 4.1.1.5 V 4.1.1.6 V 4.1.1.10 V 4.1.1.11	---	02.50.30.00
V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	02.50.41.00
V 4.1.2.9 V 4.1.4.1 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	V 4.1.2.9 V 4.1.4.1 V 4.1.4.2 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	02.50.49.00
V 4.1.4.1 V 4.1.4.3	---	02.60.40.00
V 4.1.5.3 V 4.1.5.6	---	02.60.45.03
V 4.1.5.15 V 4.1.5.20 V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12	V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12	02.60.45.13
V 4.3.1.17 V 4.3.1.23	V 4.3.1.17 V 4.3.1.23	02.60.45.31
<b>Power Module Control Processor</b>		



D425 6AU1425-0AA0-0AA0 D435 6AU1435-0AA0-0AA0 6AU1435-0AA0-0AA1 D445 6AU1445-0AA0-0AA0 D445-1 6AU1445-0AA0-0AA1 CX32 (control extension) 6SL3040-0NA00-0AA0	D410 DP 6AU1410-0AA0-0AA0 D410 PN 6AU1410-0AB00-0AA0	Safety-Firmware-Version
---	V 4.1.2.0 V 4.1.2.1 V 4.1.2.4 V 4.1.2.6 V 4.1.2.8	02.50.31.00
---	V 4.1.2.9 V 4.1.4.1 V 4.1.4.2 V 4.1.5.3 V 4.1.5.6 V 4.1.5.15	02.50.49.00
---	V 4.2.1.0 V 4.2.1.1 V 4.2.1.12 V 4.3.1.1 V 4.3.1.3 V 4.3.1.9 V 4.3.1.12	02.60.45.03
---	V 4.3.1.17 V 4.3.1.23	02.60.45.31

### 1.2.2 SIMOTION D Control Units and Control Extensions (2. Generation)

D445-2 DP/PN 6AU1445-2AD00-0AA0 6AU1445-2AD00-0AA1 D455-2 DP/PN 6AU1455-2AD00-0AA0 CX32-2 6AU1432-2AA00-0AA0	D425-2 DP 6AU1425-2AA00-0AA0 D425-2 DP/PN 6AU1425-2AD00-0AA0 D435-2 DP 6AU1435-2AA00-0AA0 D435-2 DP/PN 6AU1435-2AD00-0AA0	D410-2 DP 6AU1410-2AA00-0AA0 D410-2 DP/PN 6AU1410-2AD00-0AA0	Safety-Firmware-Version
<b>Control Unit Processor</b>			
V 4.2.1.0 V 4.2.1.1 V 4.2.1.11 V 4.2.1.12	---	---	04.40.23.04
V 4.3.1.1	V 4.3.1.1	V 4.3.1.2	04.50.24.00
V 4.3.1.3 V 4.3.1.7 V 4.3.1.9	V 4.3.1.3 V 4.3.1.7 V 4.3.1.9	V 4.3.1.3 V 4.3.1.9	04.50.30.05
V 4.3.1.12	V 4.3.1.12	V 4.3.1.12 V 4.3.1.13	04.50.30.14

D445-2 DP/PN 6AU1445-2AD00-0AA0 6AU1445-2AD00-0AA1 D455-2 DP/PN 6AU1455-2AD00-0AA0 CX32-2 6AU1432-2AA00-0AA0	D425-2 DP 6AU1425-2AA00-0AA0 D425-2 DP/PN 6AU1425-2AD00-0AA0 D435-2 DP 6AU1435-2AA00-0AA0 D435-2 DP/PN 6AU1435-2AD00-0AA0	D410-2 DP 6AU1410-2AA00-0AA0 D410-2 DP/PN 6AU1410-2AD00-0AA0	Safety-Firmware-Version
V 4.3.1.17	V 4.3.1.17	V 4.3.1.17	04.50.30.24
V 4.3.1.22	V 4.3.1.22	V 4.3.1.20	04.50.30.30
V 4.3.1.23	V 4.3.1.23	V 4.3.1.23	04.50.30.34
V 4.4.0.1 (RT <sup>4</sup> ) V 4.4.0.2 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.4	V 4.4.0.1 (RT <sup>4</sup> ) V 4.4.0.2 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.4	V 4.4.0.1 (RT <sup>4</sup> ) V 4.4.0.2 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.4 V 4.4.0.5	04.70.29.00
V 4.4.0.6 V 4.4.0.8 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.9 (ES <sup>5</sup> , TP <sup>6</sup> )	V 4.4.0.6 V 4.4.0.8 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.9 (ES <sup>5</sup> , TP <sup>6</sup> )	V 4.4.0.6 V 4.4.0.8 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.9 (ES <sup>5</sup> , TP <sup>6</sup> )	04.70.35.21
V 4.4.0.11	V 4.4.0.11	V 4.4.0.11	04.70.35.44
V 4.4.0.17	V 4.4.0.17	V 4.4.0.17	04.70.35.62
V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	04.80.65.05
V 5.2.1.0	V 5.2.1.0	V 5.2.1.0	05.10.23.01
<b>Power Module Control Processor</b>			
---	---	V 4.3.1.2	04.50.24.00
---	---	V 4.3.1.3 V 4.3.1.9	04.50.30.05
---	---	V 4.3.1.12 V 4.3.1.13	04.50.30.14
---	---	V 4.3.1.17	04.50.30.24
---	---	V 4.3.1.20 V 4.3.1.23	04.50.30.30
---	---	V 4.4.0.1 (RT <sup>4</sup> ) V 4.4.0.2 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.4 V 4.4.0.5	04.70.28.00
---	---	V 4.4.0.6 V 4.4.0.8 (ES <sup>5</sup> , TP <sup>6</sup> ) V 4.4.0.9 (ES <sup>5</sup> , TP <sup>6</sup> )	04.70.35.18
---	---	V 4.4.0.11	04.70.35.35
---	---	V 4.4.0.17	04.70.35.62

<sup>4</sup> Runtime System<sup>5</sup> Engineering System<sup>6</sup> Technology Package

D445-2 DP/PN 6AU1445-2AD00-0AA0 6AU1445-2AD00-0AA1 D455-2 DP/PN 6AU1455-2AD00-0AA0 CX32-2 6AU1432-2AA00-0AA0	D425-2 DP 6AU1425-2AA00-0AA0 D425-2 DP/PN 6AU1425-2AD00-0AA0 D435-2 DP 6AU1435-2AA00-0AA0 D435-2 DP/PN 6AU1435-2AD00-0AA0	D410-2 DP 6AU1410-2AA00-0AA0 D410-2 DP/PN 6AU1410-2AD00-0AA0	Safety-Firmware-Version
---	---	V 4.5.0.1 V 4.5.0.3 V 5.1.0.1	04.80.65.01
---	---	V 5.2.1.0	05.10.17.00

### 1.2.3 SINAMICS S120 Control Extensions

CUA31 6SL3040-0PA00-0AA1 CUA32 6SL3040-0PA01-0AA0	Safety-Firmware-Version
V 2.5	02.50.31.00 02.50.32.29
V 2.6	02.60.30.00 02.60.39.00 02.60.45.03 02.60.45.31
V 4.3	04.30.15.00
V 4.4	04.40.23.04 04.40.23.35
V 4.5	04.50.24.00 04.50.30.05 04.50.30.14 04.50.30.23 04.50.30.24 04.50.30.30
V 4.6	04.60.20.00 04.60.21.13
V 4.7	04.70.35.18 04.70.35.35 04.70.35.62
V 4.8	04.80.65.01
V 5.1	05.10.17.00

### 1.2.4 Sensor Modules

SMI20 6SL3055-0AA00-5MA0 SME20 6SL3055-0AA00-5EA0 SME25 6SL3055-0AA00-5HA0 SME120 6SL3055-0AA00-5JA0 SME125 6SL3055-0AA00-5KA0 SMC20 6SL3055-0AA00-5BA1 6SL3055-0AA00-5BA2	SMI20 (2. Generation) 6SL3055-0AA00-5MA3 SMI24 <sup>7</sup> 6SL3055-0AA00-5SA3	SMC20 (2. Generation) 6SL3055-0AA00-5BA3 SME20 (2. Generation) 6SL3055-0AA00-5EA3 SME25 (2. Generation) 6SL3055-0AA00-5HA3 SME120 (2. Generation) 6SL3055-0AA00-5JA3 SME125 (2. Generation) 6SL3055-0AA00-5KA3	Safety-Firmware-Version
V 2.4 SP1 V 2.5 V 2.6 V 4.1 V 4.3 V 4.4 V 4.5 V 4.6 V 4.7 V 4.8 V 5.1	---	---	02.40.06.00
---	V 2.5 V 2.6	---	02.60.29.00 02.60.34.00
---	V 2.4 HF12 V 4.3	V 2.4 HF12 V 4.3	04.30.13.00
---	V 4.4	V 4.4	04.40.18.00 04.50.13.00 04.50.19.00
---	V 4.5	V 4.5	04.50.19.00
---	V 4.6	V 4.6	04.60.09.00
---	V 4.7	V 4.7	04.70.02.00
---	V 4.8	V 4.8	04.80.40.00
---	V 5.1	V 5.1	05.10.05.00

### 1.2.5 Terminal Module

TM54F 6SL3055-0AA00-3BA0	Safety-Firmware-Version
V 2.5	02.50.30.00
V 2.6	02.60.30.00

<sup>7</sup> SMI24 only released for V4.4 and higher

TM54F 6SL3055-0AA00-3BA0	Safety-Firmware-Version
V 4.3	04.30.14.00
V 4.4	04.40.21.00
V 4.5	04.50.22.00
V 4.6	04.60.15.00
V 4.7	04.70.32.00
V 4.8	04.80.43.00
V 5.1	05.10.16.00

## 2 Hardware

### 2.1 SIMOTION D Control Units and Control Extensions

Description	Order Purchase No. (MLFB)	Hardware Version
D410 DP	6AU1410-0AA00-0AA0	A, B, C, D
D410-2 DP	6AU1410-2AA00-0AA0	A, B, C, D
D410 PN	6AU1410-0AB00-0AA0	A, B, C, D, E
D410-2 DP/PN	6AU1410-2AD00-0AA0	A, B, C
D425	6AU1425-0AA00-0AA0	B, C, D, E, F, G
D425-2 DP	6AU1425-2AA00-0AA0	E, F, G, H
D425-2 DP/PN	6AU1425-2AD00-0AA0	E, F, G, H
D435	6AU1435-0AA00-0AA1	B, C, D, E, F, G
D435-2 DP	6AU1435-2AA00-0AA0	E, F, G, H
D435-2 DP/PN	6AU1435-2AD00-0AA0	E, F, G
D445	6AU1445-0AA00-0AA0	A, B, C, D, E
D445-1	6AU1445-0AA00-0AA1	A
D445-2 DP/PN	6AU1445-2AD00-0AA0	C, D, E, F, G, H, J, K, L
D445-2 DP/PN	6AU1445-2AD00-0AA1	A
D455-2 DP/PN	6AU1455-2AD00-0AA0	C, D, E, F, G, H, J, K, L
CX32 (controller extension)	6SL3040-0NA00-0AA0	A, B, C, D, E
CX32-2 (controller extension)	6AU1432-2AA00-0AA0	A, B, C, D, E, F, G
CUA31 (control unit adapter)	6SL3040-0PA00-0AA1	A, B, C, D, E, F, G
CUA32 (control unit adapter)	6SL3040-0PA01-0AA0	A, B, C, D, E, F, G

### 2.2 SINAMICS Power Modules (block-size)

Power Modules, 200V, IP20, internal air cooling, single phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM340 (1AC, 200V, 0.9A, UF)	FSA	6SL3210-1SB11-0UA0	A01, A02, A03, B01, C02
PM340 (1AC, 200V, 2.3A, UF)	FSA	6SL3210-1SB12-3UA0	A01, A02, A03, B01, C02
PM340 (1AC, 200V, 3.9A, UF)	FSA	6SL3210-1SB14-0UA0	A01, A02, A03, B01, C02
PM340 (1AC, 200V, 0.9A, AF)	FSA	6SL3210-1SB11-0AA0	A01, A02, A03, B01, C02
PM340 (1AC, 200V, 2.3A, AF)	FSA	6SL3210-1SB12-3AA0	A01, A02, A03, B01, C02
PM340 (1AC, 200V, 3.9A, AF)	FSA	6SL3210-1SB14-0AA0	A01, A02, A03, B01, C02

  

Power Modules, 400V, IP20, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM340 (3AC, 400V, 1.3A, UF)	FSA	6SL3210-1SE11-3UA0	A01, A02, B01, C01, C02, D02
PM340 (3AC, 400V, 1.7A, UF)	FSA	6SL3210-1SE11-7UA0	A01, A02, B01, C01, C02, D02
PM340 (3AC, 400V, 2.2A, UF)	FSA	6SL3210-1SE12-2UA0	A01, A02, B01, C01, C02, D02

Power Modules, 400V, IP20, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM340 (3AC, 400V, 3.1A, UF)	FSA	6SL3210-1SE13-1UA0	A01, A02, B01, C01, C02, D02
PM340 (3AC, 400V, 4.1A, UF)	FSA	6SL3210-1SE14-1UA0	A01, A02, B01, C01, C02, D02
PM340 (3AC, 400V, 5.9A, UF)	FSB	6SL3210-1SE16-0UA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 7.7A, UF)	FSB	6SL3210-1SE17-7UA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 10A, UF)	FSB	6SL3210-1SE21-0UA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 18A, UF)	FSC	6SL3210-1SE21-8UA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 25A, UF)	FSC	6SL3210-1SE22-5UA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 32A, UF)	FSC	6SL3210-1SE23-2UA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 38A, UF)	FSD	6SL3210-1SE23-8UA0	A, B, C, D, E, F, G, H, J
PM340 (3AC, 400V, 45A, UF)	FSD	6SL3210-1SE24-5UA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 60A, UF)	FSD	6SL3210-1SE26-0UA0	A, B, C, D, E, F, G, H, J
PM340 (3AC, 400V, 75A, UF)	FSE	6SL3210-1SE27-5UA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 90A, UF)	FSE	6SL3210-1SE31-0UA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 110A, UF)	FSF	6SL3210-1SE31-1UA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 145A, UF)	FSF	6SL3210-1SE31-5UA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 178A, UF)	FSF	6SL3210-1SE31-8UA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 5.9A, AF)	FSB	6SL3210-1SE16-0AA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 7.7A, AF)	FSB	6SL3210-1SE17-7AA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 10A, AF)	FSB	6SL3210-1SE21-0AA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 18A, AF)	FSC	6SL3210-1SE21-8AA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 25A, AF)	FSC	6SL3210-1SE22-5AA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 32A, AF)	FSC	6SL3210-1SE23-2AA0	A01, B01, B02, C01, D01, D02, E02
PM340 (3AC, 400V, 38A, AF)	FSD	6SL3210-1SE23-8AA0	A, B, C, D, E, F, G, H, J
PM340 (3AC, 400V, 45A, AF)	FSD	6SL3210-1SE24-5AA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 60A, AF)	FSD	6SL3210-1SE26-0AA0	A, B, C, D, E, F, G, H, J
PM340 (3AC, 400V, 75A, AF)	FSE	6SL3210-1SE27-5AA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 90A, AF)	FSE	6SL3210-1SE31-0AA0	A, B, C, D, E, F, G, H, J, K
PM340 (3AC, 400V, 110A, AF)	FSF	6SL3210-1SE31-1AA0	A, B, C, D, E, F, G, H, J, K, M
PM340 (3AC, 400V, 145A, AF)	FSF	6SL3210-1SE31-5AA0	A, B, C, D, E, F, G, H, J, K, M
PM340 (3AC, 400V, 178A, AF)	FSF	6SL3210-1SE31-8AA0	A, B, C, D, E, F, G, H, J, K, M

Power Modules, 400V, IP20, liquid cooled, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM340 (3AC, 400V, 38A, UF)	FSD	6SL3215-1SE23-8UA0	B, C, D, E
PM340 (3AC, 400V, 60A, UF)	FSD	6SL3215-1SE26-0UA0	B, C, D, E
PM340 (3AC, 400V, 75A, UF)	FSE	6SL3215-1SE27-5UA0	B, C, D, E
PM340 (3AC, 400V, 90A, UF)	FSE	6SL3215-1SE31-0UA0	B, C, D, E

Power Modules, 400V, IP20, liquid cooled, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM340 (3AC, 400V, 110A, UF)	FSF	6SL3215-1SE31-1UA0	B, C, D, E
PM340 (3AC, 400V, 178A, UF)	FSF	6SL3215-1SE31-8UA0	B, C, D, E

Power Modules, 400V, IP20, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM250 (3AC, 400V, unfiltered, 15.0kW)	FSD	6SL3225-0BE31-5UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 18.5kW)	FSD	6SL3225-0BE31-8UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 22.0kW)	FSD	6SL3225-0BE32-2UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 30.0kW)	FSE	6SL3225-0BE33-0UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 37.0kW)	FSE	6SL3225-0BE33-7UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 45.0kW)	FSF	6SL3225-0BE34-5UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 55.0kW)	FSF	6SL3225-0BE35-5UA0	A, B, C, D
PM250 (3AC, 400V, unfiltered, 75.0kW)	FSF	6SL3225-0BE37-5UA0	A, B, C, D
PM250 (3AC, 400V, filtered, 5.50kW)	FSC	6SL3225-0BE25-5AA0 6SL3225-0BE25-5AA1	A05, B01 A01, A02, B01, D01, D02, E01
PM250 (3AC, 400V, filtered, 7.50kW)	FSC	6SL3225-0BE27-5AA0 6SL3225-0BE27-5AA1	A05, B01 A01, A02, B01, C01, C02, E01
PM250 (3AC, 400V, filtered, 11.0kW)	FSC	6SL3225-0BE31-1AA0 6SL3225-0BE31-1AA1	A05, B01 A01, A02, B01, C01, D02, E01
PM250 (3AC, 400V, filtered, 15.0kW)	FSD	6SL3225-0BE31-5AA0	A, B, C, D, E, F, G, H, J
PM250 (3AC, 400V, filtered, 18,5kW)	FSD	6SL3225-0BE31-8AA0	A, B, C, D, E, F, G, H, J
PM250 (3AC, 400V, filtered, 22.0kW)	FSD	6SL3225-0BE32-2AA0	A, B, C, D, E, F, G, H, J
PM250 (3AC, 400V, filtered, 30.0kW)	FSE	6SL3225-0BE33-0AA0	A, B, C, D, E, F, G, H
PM250 (3AC, 400V, filtered, 37.0kW)	FSE	6SL3225-0BE33-7AA0	A, B, C, D, E, F, G, H
PM250 (3AC, 400V, filtered, 45.0kW)	FSF	6SL3225-0BE34-5AA0	A, B, C, D, E, F, G, H
PM250 (3AC, 400V, filtered, 55.0kW)	FSF	6SL3225-0BE35-5AA0	A, B, C, D, E, F, G, H
PM250 (3AC, 400V, filtered, 75.0kW)	FSF	6SL3225-0BE37-5AA0	A, B, C, D, E, F, G, H

Power Modules, 230V, IP21, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM240-2 (3AC, 230V, unfiltered, 11.0kW)	FSD	6SL3210-1PC24-2UL0	04, 05, 10
PM240-2 (3AC, 230V, unfiltered, 15.0kW)	FSD	6SL3210-1PC25-4UL0	04, 05, 10



Power Modules, 230V, IP21, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM240-2 (3AC, 230V, unfiltered, 18.5kW)	FSD	6SL3210-1PC26-8UL0	04, 05, 10
PM240-2 (3AC, 230V, unfiltered, 22.0kW)	FSE	6SL3210-1PC28-0UL0	04, 05, 10
PM240-2 (3AC, 230V, unfiltered, 30.0kW)	FSE	6SL3210-1PC31-1UL0	04, 05, 10
PM240-2 (3AC, 230V, unfiltered, 37.0kW)	FSF	6SL3210-1PC31-3UL0	04
PM240-2 (3AC, 230V, unfiltered, 45.0kW)	FSF	6SL3210-1PC31-6UL0	04
PM240-2 (3AC, 230V, unfiltered, 55.0kW)	FSF	6SL3210-1PC31-8UL0	04

Power Modules, 400V, IP21, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM240-2 (3AC, 400V, unfiltered, 18.5kW)	FSD	6SL3210-1PE23-8UL0	04, 05, 10
PM240-2 (3AC, 400V, unfiltered, 22.0kW)	FSD	6SL3210-1PE24-5UL0	04, 05, 10
PM240-2 (3AC, 400V, unfiltered, 30.0kW)	FSD	6SL3210-1PE26-0UL0	04, 05, 10
PM240-2 (3AC, 400V, unfiltered, 37.0kW)	FSD	6SL3210-1PE27-5UL0	04, 05, 10
PM240-2 (3AC, 400V, unfiltered, 45.0kW)	FSE	6SL3210-1PE28-8UL0	04, 05, 10
PM240-2 (3AC, 400V, unfiltered, 55.0kW)	FSE	6SL3210-1PE31-1UL0	04, 05, 10
PM240-2 (3AC, 400V, unfiltered, 75.0kW)	FSF	6SL3210-1PE31-5UL0	04, 07, 10
PM240-2 (3AC, 400V, unfiltered, 90.0kW)	FSF	6SL3210-1PE31-8UL0	04, 07, 10
PM240-2 (3AC, 400V, unfiltered, 110kW)	FSF	6SL3210-1PE32-1UL0	04, 07, 10
PM240-2 (3AC, 400V, unfiltered, 132kW)	FSF	6SL3210-1PE32-5UL0	04, 07, 10
PM240-2 (3AC, 400V, filtered, 18.5kW)	FSD	6SL3210-1PE23-8AL0	04, 05, 10
PM240-2 (3AC, 400V, filtered, 22.0kW)	FSD	6SL3210-1PE24-5AL0	04, 05, 10
PM240-2 (3AC, 400V, filtered, 30.0kW)	FSD	6SL3210-1PE26-0AL0	04, 05, 10
PM240-2 (3AC, 400V, filtered, 37.0kW)	FSD	6SL3210-1PE27-5AL0	04, 05, 10
PM240-2 (3AC, 400V, filtered, 45.0kW)	FSE	6SL3210-1PE28-8AL0	04, 05, 10
PM240-2 (3AC, 400V, filtered, 55.0kW)	FSE	6SL3210-1PE31-1AL0	04, 05, 10
PM240-2 (3AC, 400V, filtered, 75.0kW)	FSF	6SL3210-1PE31-5AL0	04, 07, 10
PM240-2 (3AC, 400V, filtered, 90.0kW)	FSF	6SL3210-1PE31-8AL0	04, 07, 10
PM240-2 (3AC, 400V, filtered, 110kW)	FSF	6SL3210-1PE32-1AL0	04, 07, 10

Power Modules, 400V, IP21, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM240-2 (3AC, 400V, filtered, 132kW)	FSF	6SL3210-1PE32-5AL0	04, 07, 10
Power Modules, 600V, IP21, internal air cooling, three phase inlet			
Description	Frame Size	Order Purchase No. (MLFB)	Hardware Version
PM240-2 (3AC, 600V, unfiltered, 11.0kW)	FSD	6SL3210-1PH21-4UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 15.0kW)	FSD	6SL3210-1PH22-0UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 18.5kW)	FSD	6SL3210-1PH22-3UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 22.0kW)	FSD	6SL3210-1PH22-7UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 30.0kW)	FSD	6SL3210-1PH23-5UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 37.0kW)	FSD	6SL3210-1PH24-2UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 45.0kW)	FSD	6SL3210-1PH25-2UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 55.0kW)	FSE	6SL3210-1PH26-2UL0	04, 05, 10
PM240-2 (3AC, 600V, unfiltered, 75.0kW)	FSF	6SL3210-1PH28-0UL0	04, 10
PM240-2 (3AC, 600V, unfiltered, 90.0kW)	FSF	6SL3210-1PH31-0UL0	04, 10
PM240-2 (3AC, 600V, unfiltered, 110kW)	FSF	6SL3210-1PH31-2UL0	04, 10
PM240-2 (3AC, 600V, unfiltered, 132kW)	FSF	6SL3210-1PH31-4UL0	04, 10
PM240-2 (3AC, 600V, filtered, 11.0kW)	FSD	6SL3210-1PH21-4AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 15.0kW)	FSD	6SL3210-1PH22-0AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 18.5kW)	FSD	6SL3210-1PH22-3AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 22.0kW)	FSD	6SL3210-1PH22-7AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 30.0kW)	FSD	6SL3210-1PH23-5AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 37.0kW)	FSD	6SL3210-1PH24-2AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 45.0kW)	FSD	6SL3210-1PH25-2AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 55.0kW)	FSE	6SL3210-1PH26-2AL0	04, 05, 10
PM240-2 (3AC, 600V, filtered, 75.0kW)	FSE	6SL3210-1PH28-0AL0	04, 10
PM240-2 (3AC, 600V, filtered, 90.0kW)	FSF	6SL3210-1PH31-0AL0	04, 10
PM240-2 (3AC, 600V, filtered, 110kW)	FSF	6SL3210-1PH31-2AL0	04, 10
PM240-2 (3AC, 600V, filtered, 132kW)	FSF	6SL3210-1PH31-4AL0	04, 10

### 2.3 Sensor Modules

Description	Order Purchase No. (MLFB)	Hardware Version
SMI20 (internal)	6SL3055-0AA00-5MA0 Included in motors with DRIVE-CLiQ interface: A5E00207496, A5E01122783, A5E02282294	B, C, D
SMI20 (internal)	6SL3055-0AA00-5MA3 (2. Generation) Included in motors with DRIVE-CLiQ interface: A5E01139087	A, B, C, D, E, F, G, H, J, K, L, M
SMI24 (internal)	6SL3055-0AA00-5SA3	A
SME20 (external)	6SL3055-0AA00-5EA0	A, B
SME20 (external)	6SL3055-0AA00-5EA3 (2. Generation)	A, B, C, D, E, F, G, H, J, K, L
SME25 (external)	6SL3055-0AA00-5HA0	A, B
SME25 (external)	6SL3055-0AA00-5HA3 (2. Generation)	A, B, C, D, E, F, G, H, J, K, L, M
SME120 (external)	6SL3055-0AA00-5JA0	A, B, C
SME120 (external)	6SL3055-0AA00-5JA3 (2. Generation)	A, B, C, D, E, F, G, H
SME125 (external)	6SL3055-0AA00-5KA0	A, B, C
SME125 (external)	6SL3055-0AA00-5KA3 (2. Generation)	A, B, C, D, E, F, G, H
SMC20 (cabinet)	6SL3055-0AA00-5BA1 6SL3055-0AA00-5BA2	A, B A
SMC20 (cabinet)	6SL3055-0AA00-5BA3 (2. Generation)	A, B, C, D, E, F, G

### 2.4 Terminal Module

Description	Order Purchase No. (MLFB)	Hardware Version
TM54F	6SL3055-0AA00-3BA0	A, B, C, D

### 2.5 Brake Module

Description	Order Purchase No. (MLFB)	Hardware Version
Safe Brake Relay	6SL3252-0BB01-0AA0	A03, B01, C01

### 3 Boundary Conditions

#### 3.1 Exceptions

The marked software versions may lead to unexpected behaviour if SOS is used in combination with SS2. Please contact your local support for details.

#### 3.2 System Related Software

According to IEC61508-4 (2010) the related engineering system "SIMOTION Scout" is classified as T3 off-line support tool. Therefore, all required measures considering T3 off-line support tools as defined in [1] were applied.

Off-Line Support Tool	Version TIA Portal
SIMOTION Scout TIA	V13.1 V14 V14.1 V15 V15.1