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Entry type: **Product note**, Entry ID: **8765106**, Entry date: **09/27/2001**

Outline of the SIMADYN D components

Entry | Associated product(s)

SIMADYN D is the system which can be used to implement high-dynamic performance technological- and closed-loop drive controls. This graphic, freely-configurable, modular control system using multi-processor technology, processes all of the open- and closed-loop control-, arithmetic- and communication tasks of continuously changing data, and that at a high speed.

SIMADYN D is configured freely with the Windows-based graphic SIMATIC S7 tools **STEP 7, CFC** (Continuous Function Chart) and **SFC** (Sequential Function Chart). The original SIMATIC software package has to be supplemented with the add-on **D7-SYS** to utilise the extremely fast operating system and the function blocks for SIMADYN D.

As a result of the excellent performance, SIMADYN D is especially suitable for all applications, where high control dynamic performance and arithmetic accuracy are demanded, or where comprehensive functionality is required. As it can be freely configured and the comprehensive spectrum of modules, SIMADYN D can be used for the widest range of applications and industrial sectors:

- Closed-loop torque-, speed- and position control for converter-fed DC and AC drives, e.g. for closed-loop synchronous operation-, dancer roll- or tension controls, winders, multi-motor drives, gear/motor test stands, complex setpoint calculations and closed-loop controls for cross-cutters, “breakage-proof” electrical shafts
- High-accuracy rolling mill drives
- High dynamic performance hydraulic drives
- Special applications using drive converters, e. g. for excitation current control, high-voltage DC current transmission, static reactive power compensation systems

This update gives you an outline of the available FM 458 components:

order information	order number
SR6 Subrack	**6DD1682-0BB0**
SR6V Subrack	**6DD1682-0BB1**
SR12.1 Subrack 24V DC, fan	**6DD1682-0CC0**
SR12.2 Subrack 24V DC	**6DD1682-0CD0**
SR12.3 Subrack 115**/**230V AC, fan	**6DD1682-0BC3**
SR12.4 Subrack 115**/**230V AC	**6DD1682-0BC4**
SR24.1 Subrack 24V DC, fan	**6DD1682-0BC0**

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SR24.2 Subrack 24V DC	**6DD1682-0BE0**
SR24.3 Subrack 115**/**230V AC, fan	**6DD1682-0CE3**
SR24.4 Subrack 115**/**230V AC	**6DD1682-0CE4**
SR81 Slot cover	**6DD1682-0AJ1**
SR82 Slot cover	**6DD1682-0AJ2**
SR83 Slot cover	**6DD1682-0AJ3**
Back-up battery Lithium package of 1	**6EW1000-7AA**
PM5 CPU-module	**6DD1600-0AJ0**
PM6 CPU-module	**6DD1600-0AK0**
MS5 Memory card 2 MB Flash-EPROM, 8 KB EEPROM	**6DD1610-0AH0**
MS51 Memory card 4 MB Flash-EPROM, 8 KB EEPROM	**6DD1610-0AK0**
MS52 Memory card 8 MB Flash-EPROM, 8 KB EEPROM	**6DD1610-0AH2** on demand
MM11 Communication buffer memory module 64KB	**6DD1611-0AD0**
MM3 Communication buffer memory module radio clock	**6DD1611-0AF0**
MM4 Communication buffer memory module 2MB	**6DD1611-0AG0**
EA12 Analog output 8 channels	**6DD1642-0BC0**
EB11 Digital-I/O 16 channels	**6DD1641-0AC0**
IT41 Digital- and Analog-I/O with 4 incremental encoder inputs	**6DD1606-3AC0**
IT42 Digital- and Analog- I/O	**6DD1606-4AB0**
ITDC Converter interface	**6DD1601-0AH0** on demand
SE20.2 SITOR interface	**6DD1681-0CA2**
SA60.1 Synchronisation module	**6DD2920-0AR5**
SA31 Fire impulse amplifier	**6DD2920-0AR3**
CS7 Carrier module	**6DD1662-0AB0**
SS4 Communication module RS 232	**6DD1688-0AD0**
SS1 20 mA-Interfacemodul	**6DD1688-1AA0**
SS2 V.24-Interfacemodul	**6DD1688-1AB0**
SS31 RS 485-Interfacemodul	**6DD1688-1AC1**
SS5 PROFIBUS-FMS-Interfacemodul	**6DD1688-0AE0**
COM SS5 Parameterizing tool FMS	**6DD1881-0AA0**
SS52 PROFIBUS-DP/MPI-Interfacemodul	**6DD1688-0AE2**
COM PROFIBUS V5.0 to parameterizise the SS52 as PROFIBUS-DP Master	**6ES5895-6SE03**
CS 8 Carrier module for max. 2 Communication submodules CBP2, CBC, CBD, CBL	**6DD1662-0AC0**
CBP2 Communication module for Profibus-DP and USS	**6SE7090-0XX84-0FF5**
CBC Communication module for CAN	**6SE7090-0XX84-0FG0**
CSH11 Communication modul Industrial Ethernet	**6DD1661-0AB1**
SINEC NML german	**6GK1740-0AB00-0BA0**
SINEC NML english	**6GK1740-0AB01-0EA0**

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ITSL SIMOLINK master interface	**6DD1663-0AB0**
SLB drive coupling for SIMOLINK spare part (excluding documentation, excluding plug-in connector)	**6SE7090-0XX84-0FJ0**
SLB drive coupling for SIMOLINK Retrofit set (Documentation, 2 FOC plug-in connectors, 5m all-plastic FOC, 1 connector for terminal X470)	**6SX7010-0FJ00**
accessories for SLB 2 FOC plug-in connectors, 5m all-plastic FOC	**6SY7000-0AD15**
System package for SLB 40 FOC-plug-in connectors, 100m all-plastic FOC, 20 connectors for terminal X470	**6SX7010-0FJ50**
SBM2 absolute-value encoder evaluation/ Encoder evaluation, Spare part (excluding documentation, excluding plug-in connector)	**6SE7090-0XX84-0FE0**
SBM2 absolute-value encoder evaluation/ Encoder evaluation, Retrofit kit (documentation, plug-in connectors)	**6SX7010-0FE00**

FOC-Subrack coupling	
CS12 Master module for 1 Slave	**6DD1660-0BA0**
CS13 Master module for 4 Slaves	**6DD1660-0BB0**
CS14 Mastermodule for 8 Slaves	**6DD1660-0BC0**
CS22 Slave module	**6DD1660-0BD0**

FOC accessories (s. catalogue IK 10)	
manufactured readily cable	**6XV1820-5B...**
manufactured readily trailing cable	**6XV1820-6B...**
manufactured readily glass-fibreoptic cable	**6XV1820-7B...**
special length cable	**6XV1820-5AH10**
special length trailing cable	**6XV1820-6AH10**

Plug-in cables (ask I&S IS 6 FP for special length)	
SC57 Cable for PC or CS7/SS4 to connect to PM5/6, length: 10 m	**6DD1684-0FH0**
SC7 Cable for PM5/6 to connect an Interfacemodule SU12 to the digital inputs of PM5/6, length: 2 m	**6DD1684-0AH0**
SC12 Cable for EA12/ITDC to connect an Interfacemodule SU11, length: 2 m	**6DD1684-0BC0**
SC13 Cable for EB11 to connect 4 Interfacemodules SU12 or SBxx, length: 2 m	**6DD1684-0BD0**
SC17.2 Cable for SITOR-Interface to connect an ITDC to a SE20.2 or. SITOR-Interface, length: 2 m	**6DD1684-0BH2**
SC31.2 Cable for SITOR-Interface to connect an ITDC to a SE20.2 or SITOR-Schnittstelle, length: 10 m	**6DD1684-0DB2**
SC49 Cable for IT41/IT42 to connect 2 Interfacemodules SU10, length: 2 m	**6DD1684-0EK0**
SC50 Cable for IT42 to connect an Interfacemodule SU10, length: 2 m	**6DD1684-0FA0**
SC51 Cable for IT42 to connect an Interfacemodule SU10, lenth: 2 m	**6DD1684-0FB0**
SC54 Cable for IT41/IT42 to connect 5 Interfacemodules SU12 or SBxx, length: 10m	**6DD1684-0FE0**
SC55 Cable for EB11 to connect 2 Interfacemodules SU11, length: 2 m	**6DD1684-0FF0**

Interfacemodules

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SB10 Digital in- and outputs	**6DD1681-0AE2**
SB60 Digital inputs 230 V	**6DD1681-0AF4**
SB61 Digital inputs 24/48 V	**6DD1681-0EB3**
SB70 Digital outputs 230 V, relais	**6DD1681-0AG2**
SB71 Digital outputs 24/48 V, transistor	**6DD1681-0DH1**
SU10 25-pin direct connection to IT41, IT42	**6DD1681-0FG0**
SU11 20-pin direct connection to EA12, EB11	**6DD1681-0EA1**
SU12 10-pin direct connectionto EB11, IT41, IT42, PM5, PM6	**6DD1681-0AJ1**

Software

D7-SYS V5.2 add-on to - SIMATIC STEP 7 V5.1 + SP1 - CFC V5.2 - SFC V5.2	**6DD1801-5DA6**
D7-SYS V5.2 Upgrade (from V4.x)	**6DD1807-5DA6**
D7-ES V5.2 Engineering software, consisting of - SIMATIC STEP 7 V5.1 + SP1 - CFC V5.2 - D7-SYS V5.2	**6DD1801-4DA6**
D7-SYS-SFC V5.2 consisting of - SFC V5.2 - D7-SYS V5.2	**6DD1801-7DA6**
D7-ES-SFC V5.2 Engineering software, consisting of - SIMATIC STEP 7 V5.1 + SP1 - CFC V5.2 - SFC V5.2 - D7-SYS V5.2	**6DD1801-6DA6**
D7-SYS V5.1 add-on to - SIMATIC STEP 7 V5.0 + SP3/4 - CFC V5.1	**6DD1801-5DA4**
STEP7 V5.1 + SP1	**6ES7810-4CC05-0YX0**
STEP7 V5.1 + SP1 Upgrade	**6ES7810-4CC05-0YX4**
STEP7 V5.0 + SP4	**6ES7810-4CC04-0YX0**
STEP7 V5.0 + SP4 Upgrade	**6ES7810-4CC04-0YX4**
CFC V5.2	**6ES7813-0CC05-0YX0**
CFC V5.2 Upgrade	**6ES7813-0CC05-0YX4**
CFC V5.1	**6ES7813-0CC04-0YX0**
CFC V5.1 Upgrade	**6ES7813-0CC04-0YX4**
COM PROFIBUS V5.0 to parameterizise EXM 448 as PROFIBUS-DP Master	**6ES5895-6SE03**

Documentation

user manual FM 458 Printed manual in german, english	**6DD1904-0AE0**

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user manual D7-SYS V5.2	
manual in german	**6DD1987-1AA4**
manual in english	**6DD1987-1AB4**
user manual D7-SYS V5.1	
manual in german	**6DD1987-1AA3**
manual in english	**6DD1987-1AB3**

Also available in the following languages:
› German
› Italian

Entry belongs to product tree folder(s):

› Automation Technology › Automation Systems › Industrial Automation Systems SIMATIC › Control Systems › Control system SIMADYN D › Rac

› Automation Technology › Automation Systems › Industrial Automation Systems SIMATIC › Control Systems › Control system SIMADYN D › CPU

› Automation Technology › Automation Systems › Industrial Automation Systems SIMATIC › Control Systems › Control system SIMADYN D › Inpu

› Automation Technology › Automation Systems › Industrial Automation Systems SIMATIC › Control Systems › Control system SIMADYN D › Con (products?pnid=14323)

› Automation Technology › Automation Systems › Industrial Automation Systems SIMATIC › Control Systems › Control system SIMADYN D › Acc

› Automation Technology › Automation Systems › Industrial Automation Systems SIMATIC › Software for SIMATIC Controller › STEP 7 V5.x › Opt (products?pnid=14385)

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