

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SL3055-0AA00-5CA2

SINAMICS SMC30 SENSOR MODULE

Used with the applicable PLC System configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation

Overview of functions

CNC controls SINUMERIK 828

Control structure and configuration

2

✓ Basic version ○ Option – Not available	Article No.	SINUMERIK 828D			
	Notes	BASIC			
		SW 24x	SW 26x	SW 28x	SW 28xA
Control structure and configuration (continued)					
Numeric Control Extension NX15.3 for applications with up to 10 axes or for reducing the current controller cycle clock to 62.5 μs:	6SL3040-1NB00-0AA0				
• Turning		–	–	–	○
• Milling		–	–	–	–
• G-Tech Cylindrical/G-Tech Surface		–	–	–	○
Machining channel, maximum:					
• Turning	Basic scope for SW 28xA	1	1	1	2
• Milling		1	1	1	1
• G-Tech Cylindrical/G-Tech Surface		1	1	–	2
Mode group, maximum:					
• Turning	Basic configuration: 1 mode group	1	1	1	2
• Milling	Basic configuration: 1 mode group	1	1	1	1
• G-Tech Cylindrical/G-Tech Surface	Basic configuration: 1 mode group	1	1	–	2
Mode group, each additional	6FC5800-0AC00-0YB0				
• Turning		–	–	–	○
• Milling		–	–	–	–
• G-Tech		–	–	–	○
CNC user memory (buffered) for CNC part programs:					
• Turning		3 MB	5 MB	8 MB	10 MB
• Milling		3 MB	5 MB	8 MB	10 MB
• G-Tech Cylindrical/G-Tech Surface		3 MB	5 MB	–	10 MB
CNC user memory expansion	6FC5800-0AP77-0YB0	–	○ 100 MB	○ 100 MB	○ 100 MB
Execution from external storage EES Central part program memory on server or USB stick	6FC5800-0AP75-0YB0	–	○	○	○
Additional CNC user memory on user CompactFlash card	The CompactFlash card must be ordered separately.	✓	✓	✓	✓
Additional 256 MB HMI user memory on CompactFlash card of the PPU		–	–	–	–
Axes/spindles or positioning axes/auxiliary spindle:					
• Basic quantity of axes/spindles:					
- Turning		3	3	3	3
- Milling		4	4	4	4
- G-Tech Cylindrical/G-Tech Surface		3	3	–	3
Axes/spindles or positioning axes/auxiliary spindle (continued):					
• Maximum configuration axes/spindles + PLC positioning axes:					
- Turning		5	6 + 2	8 + 2	10 + 2
- Milling		5	6 + 2	6 + 2	8 + 2
- G-Tech Cylindrical/G-Tech Surface		5	6 + 2	–	10 + 2
Axis/spindle, each additional	6FC5800-0AC20-0YB0	○	○	○	○
Positioning axis/auxiliary spindle, each additional	6FC5800-0AC30-0YB0	○	○	○	○
PLC-controlled axis		✓	✓	✓	✓
PLC positioning axis, e.g. CU310-2 PN via PROFINET, maximum		–	2	2	2
Systems and number of the TOOLCARR:					
• Turning		–	–	–	–
• Milling		–	–	–	–
• G-Tech Cylindrical/G-Tech Surface		2	2	–	4
CNC lock function	6FC5800-0AP76-0YB0	○	○	○	○

Overview of functions

CNC controls SINUMERIK 828

Connectable drives

✓ Basic version ○ Option – Not available	Article No.	SINUMERIK 828D				
	Notes	BASIC	SW 24x	SW 26x	SW 28x	SW 28xA
Connectable drives						
SINAMICS S120 Motor Modules via DRIVE-CLiQ	See Catalog NC 62	✓	✓	✓	✓	✓
SINAMICS S120 DRIVE-CLiQ on motor	See Measuring systems	✓	✓	✓	✓	✓
SINAMICS S120 Sensor Module Cabinet:	See Catalog NC 62					
• SMC20	6SL3055-0AA00-5BA3	○	○	○	○	○
• SMC30	6SL3055-0AA00-5CA2	○	○	○	○	○
• SMC40	6SL3055-0AA00-5DA0	○	○	○	○	○
SINAMICS S120 Sensor Module External:	See Catalog NC 62					
• SME20	6SL3055-0AA00-5EA3	○	○	○	○	○
• SME25	6SL3055-0AA00-5HA3	○	○	○	○	○
• SME120	6SL3055-0AA00-5JA3	○	○	○	○	○
• SME125	6SL3055-0AA00-5KA3	○	○	○	○	○
SINAMICS S120, supplementary system components:						
• DMC20 DRIVE-CLiQ Hub Module	6SL3055-0AA00-6AA1	○	○	○	○	○
• DME20 DRIVE-CLiQ Hub Module	6SL3055-0AA00-6AB0	○	○	○	○	○
SINAMICS S120 Combi	See SINAMICS S120 drive system.	○	○	○	○	○
SINAMICS S120 Motor Modules in booksize format:	See SINAMICS S120 drive system.					
• Internal air cooling	6SL3120-...	○	○	○	○	○
• External air cooling	6SL3121-...	○	○	○	○	○
SINAMICS S120 Active Line Modules booksize format:	See SINAMICS S120 drive system.					
• Internal air cooling	6SL3130-...	○	○	○	○	○
• External air cooling	6SL3131-...	○	○	○	○	○
SINAMICS S120 Smart Line Modules booksize format:	See SINAMICS S120 drive system.					
• Internal air cooling	6SL3130-...	○	○	○	○	○
• External air cooling	6SL3131-...	○	○	○	○	○
SINAMICS S120 Motor Modules in booksize compact format, only as expansion axes for SINAMICS S120 Combi:	See SINAMICS S120 drive system.					
• Internal air cooling	3SL3420-...	○	○	○	○	○
SINAMICS S120 Motor Modules in chassis format, internal air cooling (rated pulse frequency 2 kHz)	On request.	○	○	○	○	○
Analog Drive Interface for 4 axes ADI 4		–	–	–	–	–

Overview of functions

CNC controls SINUMERIK 828

Connectable measuring systems/Connectable motors

2

✓ Basic version ○ Option – Not available	Article No.	SINUMERIK 828D			
	Notes	BASIC SW 24x	SW 26x	SW 28x	SW 28xA
Connectable measuring systems					
Number of measuring systems per axis, maximum	Not valid for PLC drives.	2	2	2	2
Absolute encoders installed in the motors:					
• SIMOTICS S-1FT7		○	○	○	○
• SIMOTICS S-1FK7		○	○	○	○
• SIMOTICS M-1PH8		○	○	○	○
Incremental encoders installed in the motors:					
• SIMOTICS S-1FT7		○	○	○	○
• SIMOTICS S-1FK7		○	○	○	○
• SIMOTICS M-1PH8		○	○	○	○
Resolvers installed in SIMOTICS S-1FK7 motors		○	○	○	○
Rotary measuring systems with:					
• RS422 (TTL)	6FX2001-2...	○	○	○	○
• sin/cos 1 V _{pp}	6FX2001-3...	○	○	○	○
• Distance-coded reference marks		○	○	○	○
• EnDat 2.1/EnDat 2.2		○	○	○	○
• DRIVE-CLiQ	6FX2001-5...	○	○	○	○
Linear measuring systems LMS with:	See Catalog NC 62				
• sin/cos 1 V _{pp}		○	○	○	○
• Distance-coded reference marks RS422 (TTL)		○	○	○	○
• EnDat 2.1		○	○	○	○
Absolute encoder connection with SSI interface		–	–	–	–
Certified DQI encoder (DQI 100)	See measuring systems	○	○	○	○
Connectable motors (preferred versions)					
SIMOTICS S-1FK7 servomotor		○	○	○	○
SIMOTICS S-1FT7 servomotor		○	○	○	○
SIMOTICS M-1PH8 spindle motor		○	○	○	○
SIMOTICS M-1FE1 built-in motor	Not with SINAMICS S120 Combi.	○	○	○	○
SIMOTICS L-1FN3 linear motor		–	–	–	–
SIMOTICS T-1FW6 built-in torque motor	Not with SINAMICS S120 Combi.	○	○	○	○
Hybrid spindle / motor spindle 2SP1	www.siemens.com/ spindles	○	○	○	○
Third-party motor	On request.	○	○	○	○

SINAMICS S120 drive system

SINAMICS S120

Supplementary system components > Encoder system connection > SMC20 Sensor Module Cabinet-Mounted

Overview



SMC20 Sensor Module Cabinet-Mounted

The SMC20 Sensor Module Cabinet-Mounted is required to evaluate the encoder signals of motors without a DRIVE-CLiQ interface. External encoders can also be connected via the SMC20.

The following encoder signals can be evaluated:

- Incremental encoder sin/cos 1 V_{pp}
- Absolute encoder EnDat 2.1
- SSI encoder with incremental signals sin/cos 1 V_{pp} (firmware V2.4 and later)

The motor temperature can also be detected with KTY84-130 or PTC thermistors.

Design

The SMC20 Sensor Module Cabinet-Mounted features the following connections and interfaces as standard:

- 1 DRIVE-CLiQ interface
- 1 encoder connection including motor temperature detection (KTY84-130 or PTC) via SUB-D connector
- 1 connection for the electronics power supply via the 24 V DC power supply connector
- 1 PE/protective conductor connection

The status of the SMC20 Sensor Module Cabinet-Mounted is indicated via a multi-color LED.

The SMC20 Sensor Module Cabinet-Mounted can be snapped onto a TH 35 standard mounting rail in accordance with EN 60715 (IEC 60715).

The signal cable shield is connected via the encoder system connector and can also be connected to the SMC20 Sensor Module Cabinet-Mounted via a shield connection terminal, e.g. Phoenix Contact type SK8 or Weidmüller type KLBÜ CO 1. The shield connection terminal must not be used for strain relief.

Integration

SMC20 Sensor Modules Cabinet-Mounted communicate with a Control Unit via DRIVE-CLiQ.

Technical specifications

Article No.	6SL3055-0AA00-5BA3
Product designation	SMC20 Sensor Module Cabinet-Mounted
Power requirement at 24 V DC, max. without taking encoder into account	0.2 A
• Conductor cross-section, max.	2.5 mm ²
• Fuse protection, max.	20 A
Power loss, max.	10 W
Encoders which can be evaluated	• Incremental encoder sin/cos 1 V_{pp} • Absolute encoder EnDat • SSI encoder with incremental signals sin/cos 1 V_{pp} (firmware V2.4 and later)
• Encoder supply DC	5 V/0.35 A
• Encoder frequency incremental signals, max.	500 kHz
• Signal subdivision (interpolation), max.	16384 times (14 bit)
• SSI baud rate	100 kBaud
Cable length to encoder, max.	100 m
PE connection	M4 screw
Width	30 mm
Height	150 mm
Depth	111 mm
Net weight	0.45 kg
Certificate of suitability	cULus

Selection and ordering data

Description	Article No.
SMC20 Sensor Module Cabinet-Mounted	6SL3055-0AA00-5BA3
Without DRIVE-CLiQ cable	

Overview



SMC30 Sensor Module Cabinet-Mounted

The SMC30 Sensor Module Cabinet-Mounted is required to evaluate the encoder signals of motors without a DRIVE-CLiQ interface. External encoders can also be connected via the SMC30.

The following encoder signals can be evaluated:

- Incremental encoder TTL/HTL with/without open-circuit detection (open-circuit detection is only available with bipolar signals)
- SSI encoder with TTL/HTL incremental signals
- SSI encoder without incremental signals

The motor temperature can also be detected with KTY84-130 or PTC thermistors.

Design

The SMC30 Sensor Module Cabinet-Mounted features the following connections and interfaces as standard:

- 1 DRIVE-CLiQ interface
- 1 encoder connection including motor temperature detection (KTY84-130 or PTC) via SUB-D connector or terminals
- 1 connection for the electronics power supply via the 24 V DC power supply connector
- 1 PE/protective conductor connection

The status of the SMC30 Sensor Module Cabinet-Mounted is indicated via a multi-color LED.

The SMC30 Sensor Module Cabinet-Mounted can be snapped onto a TH 35 standard mounting rail in accordance with EN 60715 (IEC 60715).

The maximum signal cable length between SMC30 modules and encoders is 100 m. For HTL encoders, this length can be increased to 300 m if the A+/A- and B+/B- signals are evaluated and the power supply cable has a minimum cross-section of 0.5 mm².

The signal cable shield can be connected to the SMC30 Sensor Module Cabinet-Mounted via a shield connection terminal, e.g. Phoenix Contact type SK8 or Weidmüller type KLBÜ CO 1. The shield connection terminal must not be used for strain relief.

Integration

SMC30 Sensor Modules Cabinet-Mounted communicate with a Control Unit via DRIVE-CLiQ.

Technical specifications

Article No.	6SL3055-0AA00-5CA2
Product designation	SMC30 Sensor Module Cabinet-Mounted
Power requirement at 24 V DC, max. without taking encoder into account	0.2 A
• Conductor cross-section, max.	2.5 mm ²
• Fuse protection, max.	20 A
Power loss, max.	10 W
Encoders which can be evaluated	• Incremental encoder TTL/HTL • SSI encoder with TTL/HTL incremental signals • SSI encoder without incremental signals
• Input impedance	
- TTL	570 Ω
- HTL, max.	16 mA
• Encoder supply DC	24 V/0.35 A or 5 V/0.35 A
• Encoder frequency, max.	300 kHz
• SSI baud rate	100 ... 250 kBaud
• Resolution absolute position SSI	30 bit
Cable length, max.	
• TTL encoder	100 m only bipolar signals permitted ¹⁾
• HTL encoder	100 m for unipolar signals 300 m for bipolar signals ¹⁾
• SSI encoder	100 m
PE connection	M4 screw
Width	30 mm
Height	150 mm
Depth	111 mm
Net weight	0.45 kg
Certificate of suitability	cULus

Selection and ordering data

Description	Article No.
SMC30 Sensor Module Cabinet-Mounted	6SL3055-0AA00-5CA2
Without DRIVE-CLiQ cable	

¹⁾ Signal cables twisted in pairs and shielded.

SINAMICS S120 drive system

SINAMICS S120

Supplementary system components > Encoder system connection > SMC40 Sensor Module Cabinet-Mounted

Overview



SMC40 Sensor Module Cabinet-Mounted

The SMC40 Sensor Module Cabinet-Mounted is required to evaluate the encoder signals of motors without a DRIVE-CLiQ interface. External encoders can also be connected via the SMC40.

The following encoder signals can be evaluated:

- Absolute encoder EnDat 2.2

Integration

SMC40 Sensor Modules Cabinet-Mounted communicate with a Control Unit via DRIVE-CLiQ.

Technical specifications

Article No.	6SL3055-0AA00-5DA0
Product designation	SMC40 Sensor Module Cabinet-Mounted
Power requirement at 24 V DC, max. without taking encoder into account	0.1 A
• Conductor cross-section, max.	2.5 mm ²
• Fuse protection, max.	20 A
Power loss, max.	4 W
Encoders which can be evaluated	Absolute encoder EnDat 2.2
PE connection	M4 screw
Width	30 mm
Height	150 mm
Depth	111 mm
Net weight	0.45 kg
Certificate of suitability	cULus

Design

The SMC40 Sensor Module Cabinet-Mounted features the following connections and interfaces as standard:

- 2 DRIVE-CLiQ interfaces
- 2 encoder system interfaces
- 1 connection for the electronics power supply via the 24 V DC power supply connector
- 1 PE/protective conductor connection

The status of the SMC40 Sensor Module Cabinet-Mounted is indicated via a multi-color LED.

The SMC40 Sensor Module Cabinet-Mounted can be snapped onto a TH 35 standard mounting rail in accordance with EN 60715 (IEC 60715).

The maximum signal cable length between the SMC40 and encoder system is 100 m. The specified supply voltage of the encoder must be observed. The maximum DRIVE-CLiQ cable length is 30 m.

The signal cable shield can be connected to the SMC40 Sensor Module Cabinet-Mounted via a shield connection terminal, e.g., Phoenix Contact type SK8 or Weidmüller type KLBÜ CO 1. The shield connection terminal must not be used for strain relief.

Selection and ordering data

Description	Article No.
SMC40 Sensor Module Cabinet-Mounted	6SL3055-0AA00-5DA0
Without DRIVE-CLiQ cable	

Article number index

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