

SINAMICS DRIVE SYSTEMS

# Product Data Sheet

## SMC20

cabinet sensor interface module

|                                                    |                                         |                          |                          |
|----------------------------------------------------|-----------------------------------------|--------------------------|--------------------------|
| FUNCTION<br><b>cabinet sensor interface module</b> | FAMILY<br><b>SINAMICS drive systems</b> | ORIGIN<br><b>Germany</b> | WEIGHT<br><b>0.45 kg</b> |
|----------------------------------------------------|-----------------------------------------|--------------------------|--------------------------|

Siemens SINAMICS SMC20 is a cabinet sensor interface module for the SINAMICS drive systems. The values below are limited to the exact documented article.

01

## VERIFIED TECHNICAL DATA

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Component Class      | cabinet sensor interface module [SMC20 P01]        |
| Drive Family         | SINAMICS drive systems [SMC20 P02]                 |
| Primary Function     | Converts encoder signals to DRIVE-CLiQ [SMC20 P03] |
| Power Architecture   | SMC20 industrial architecture [SMC20 P04]          |
| Voltage Class        | 24 V DC module supply [SMC20 P05]                  |
| Current Rating       | 500 kHz encoder frequency [SMC20 P06]              |
| Control Supply       | 10 W maximum consumption [SMC20 P07]               |
| Power Section        | SINAMICS drive systems service section [SMC20 P08] |
| Mechanical Design    | SMC20 service assembly [SMC20 P09]                 |
| Electrical Interface | DRIVE-CLiQ and sensor connector [SMC20 P10]        |

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Cooling Integration | SINAMICS drive systems cooling practice [SMC20 P11] |
| Board Designation   | SMC20 exact designation [SMC20 P12]                 |
| Service Role        | SMC20 maintenance role [SMC20 P13]                  |
| Product Status      | SMC20 identity verification [SMC20 P14]             |
| Commissioning Check | Validate SMC20 diagnostics and function [SMC20 P15] |

- Apply the cabinet sensor interface module: Use SMC20 to convert encoder signals to drive-cliq within the documented SINAMICS drive systems. Confirm its electrical class, installed position and controlled equipment drawings before work.
- Match the DRIVE-CLiQ and sensor connector: Record connector keying, cable labels, shielding, protective earth and adjacent assemblies. Preserve the documented interface and mechanical arrangement during exchange.
- Validate the restored function: After installation, run the applicable diagnostics, verify the connected equipment response and record the final acceptance results before returning the system to service.

Match SMC20 to the installed SINAMICS drive systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

### Siemens manufacturer documentation

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/SMC20>

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