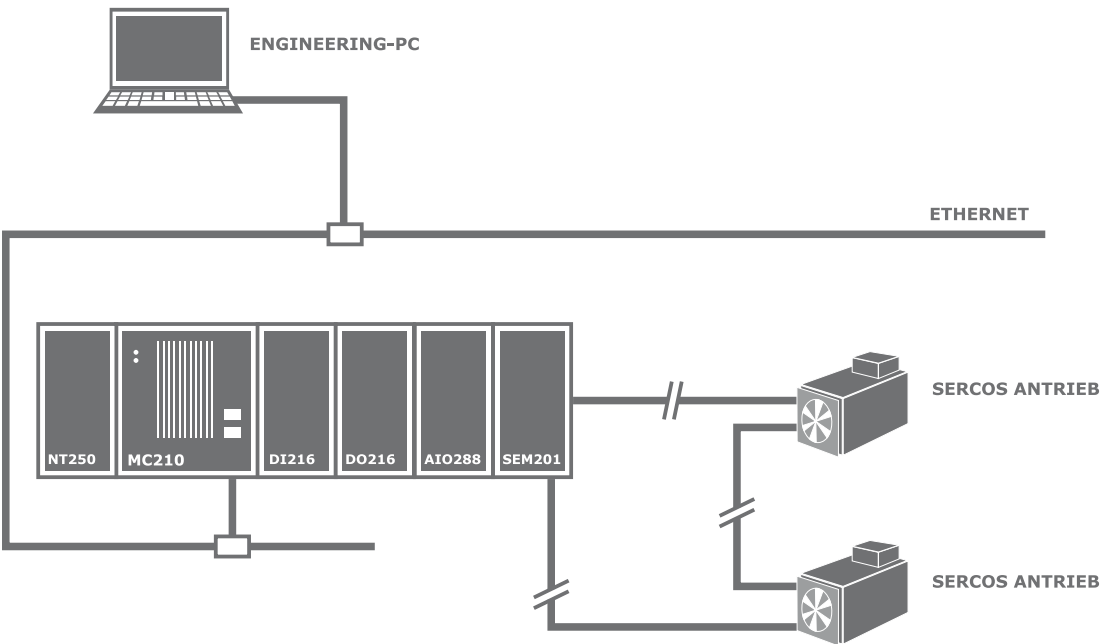| Part type designation	Part number
SEM201	00011756-00

sercos
the automation bus

SEM201
SERCOS Master Module

SERCOS (SErial Realtime COmmunication System) is a dedicated bus system for activation of high-quality electric drives and servo amplifiers. Communication is configured on the controller and distributed to the drives when the system boots. The process data of the drive is available in standardized form and makes not only the numeric values available via appropriate services, but it also makes meta information, such as symbolic names, input limits and units, available. Via service channel accesses, in addition to the cyclic process data, acyclic parameters at runtime from the application program can also be changed or transferred from a list of initial parameters at system start.

The SERCOS (Serial Real-time Communication System) master module SEM201 is capable of controlling up to 32 drives. The bus has a ring structure and offers a high level of immunity to interference thanks to the fibre optic technology.

Features

- SERCOS 2 Standard IEC 61491
- Fiber optics technology
- Bus with ring structure
- 2 Kb x 32 DPRAM
- Transfer rates: 2/4/8/16 MBaud
- Cycle times: 62.5 µs to 65 ms
- Multiple masters can be synchronized

▼ *Possible topology: SERCOS*

SEM201

Description	
Channels/Drives	Fiber optic ring with max. 32 drives, 2 kb x 32 DPRAM
Modules per controller	Max. 12
Transfer rate	2/4/8/16 MBaud
Cycle times	62.5 μs to 65 ms
Synchronization	Multiple masters can be synchronized
Certified by	SI – Sercos International (formerly IGS)
Galvanic isolation from the system	Yes, via fiber optics
Approvals/Certificates	
General	CE, UKCA, cULus
Environmental conditions	
Operating temperature	0 °C to +60 °C
Relative humidity, operation	5 % to 95 % noncondensing
Storage temperature	-40 °C to +85 °C
Relative humidity, storage	5 % to 95 % noncondensing
Pollution degree (IEC 60664-1)	2 (noncondensing)

Order data

Part type designation	Part number	Description
SEM201	00011756-00	Sercos master module; 2/4/8/16 MBaud; SERCOS II; FO interface 2x FSMA (In/Out)