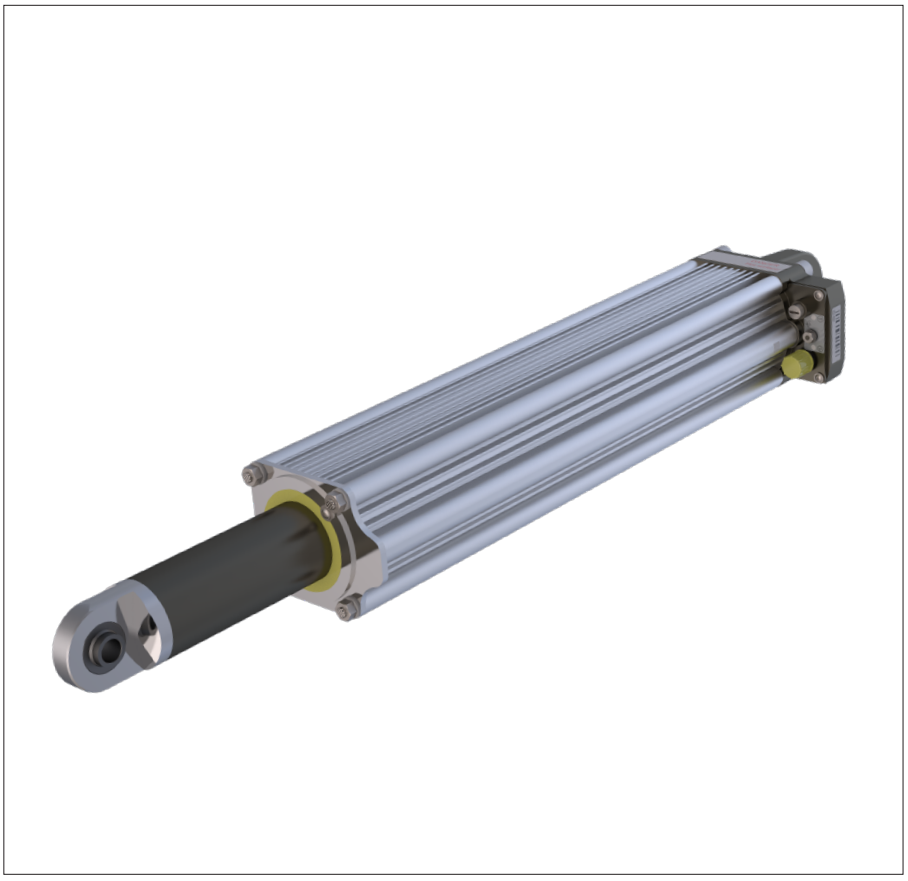
ETNET

Linear actuating drive AG 96.3

- Linear actuating drive with permanently excited synchronous machine (BLDC motor), particularly suitable for applications with high levels of running smoothness and long lifespan
- High-resolution Multiturn encoder to detect the rotor position and the absolute position
- Absolute position detection, even in cases of voltage failure (without buffer battery)
- Space-saving design through integrated control electronics
- High power density and overload capability
- Integrated temperature monitoring
- Simple configuration via Web-Based Management with standard web browser



Mounting parts for AG 96..
Mat. no. 472974

Control structure, linear actuating drive

Functions

Cascaded control structure for different tasks:

- Position control
- Speed control
- Torque control

Limiting of the relevant process variables

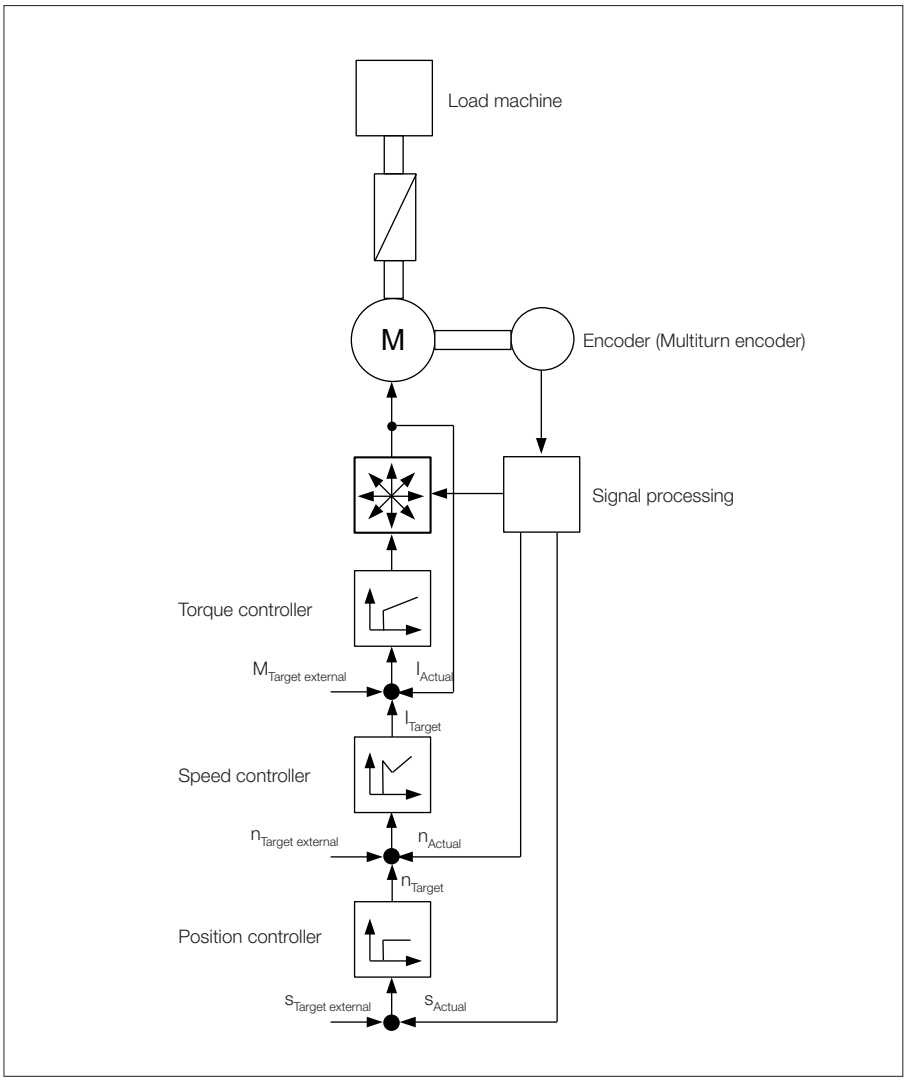
- Position
- Speed
- Acceleration
- Surge
- Force

State monitoring of the relevant process variables

- Temperature
- Current
- Power consumption

Fieldbus connection, allowing immediate inclusion in the existing infrastructure

- ProfiNet (GSD)
- Ethernet/IP (EDS)
- Ethernet UDP

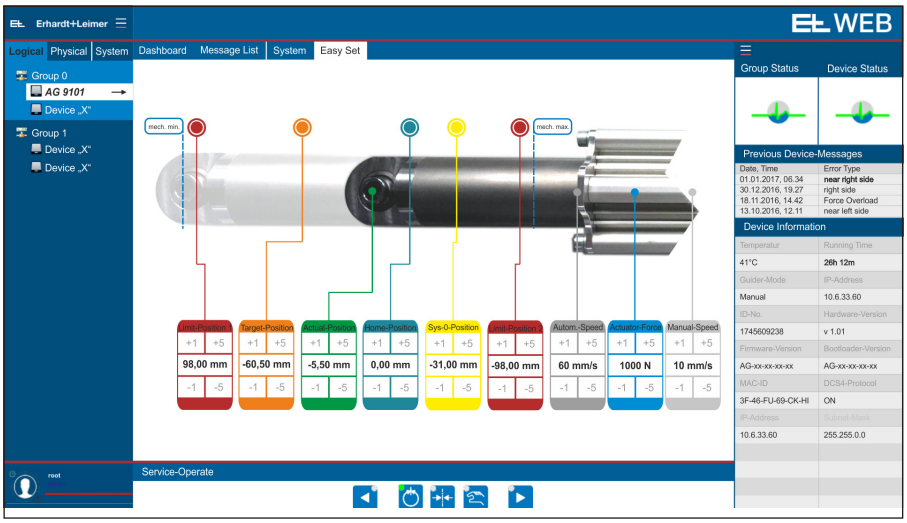


Control structure

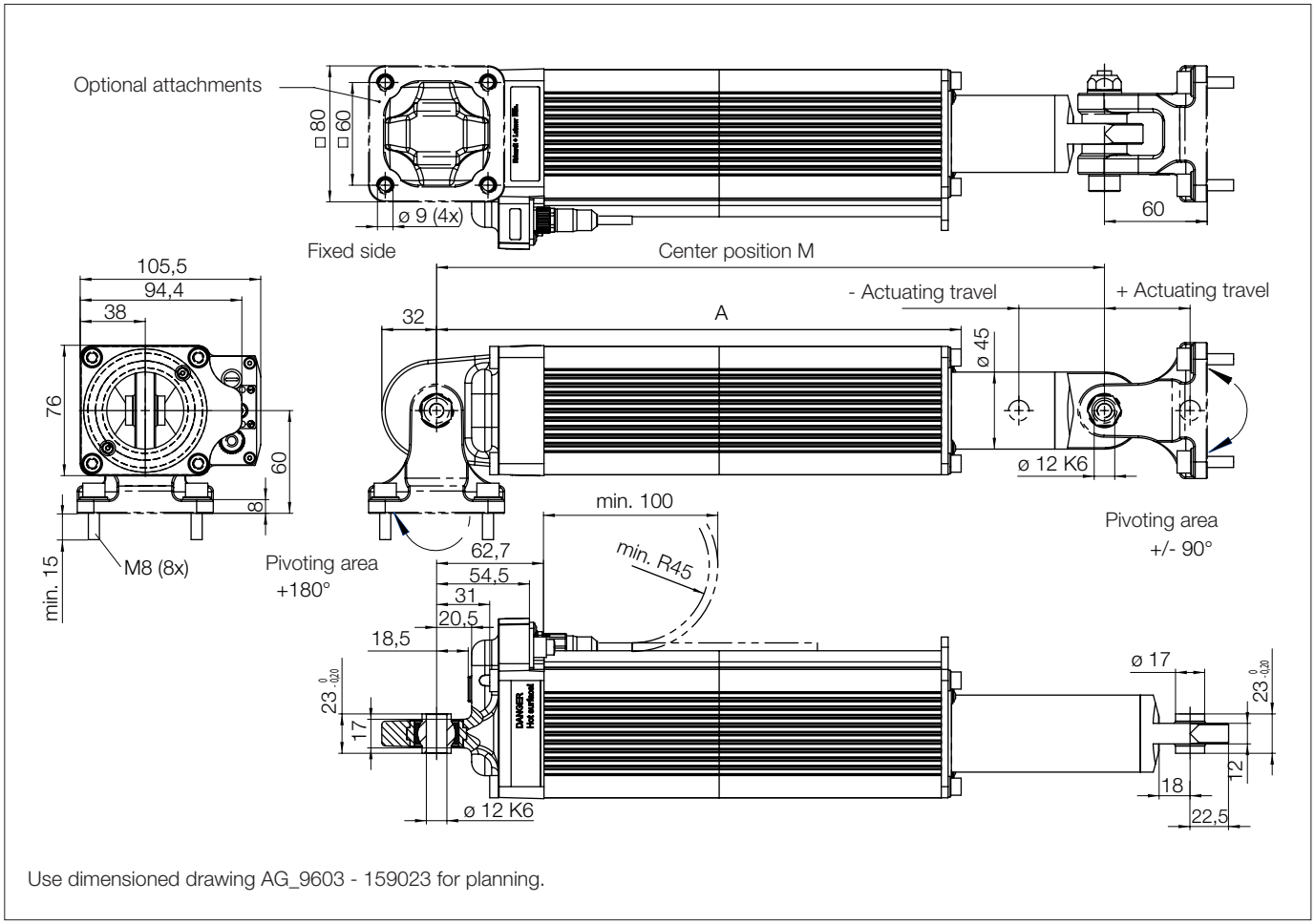
Commissioning and service

- BLDC motor with integrated web server
- Customer-friendly commissioning with prompts and service via standard web browser
- All the necessary functions can be displayed and configured in the browser
- Network overview
- Control group overview

Parameter overview, drives



Parameter overview, actuating drive



Use dimensioned drawing AG_9603 - 159023 for planning.

Selection tables

Type	Nominal actuating travel (mm)	Nominal actuating force (N)	Nominal actuating speed (mm/s)
AG 9613	± 50	5500	15
AG 9633	± 100	5500	15
AG 9643	± 150	5500	15
AG 9653	± 200	5500	15

Type	M (mm)	A (mm)
AG 9613	505	428
AG 9633	655	528
AG 9643	805	628
AG 9653	955	728

Technical Data

Operating voltage Nominal value Nominal range	 24 V DC 20 to 30 V DC
Current consumption	8.8 A
Nominal actuating force	5500 N
Nominal actuating speed	15 mm/s
Insulation class	F
Mechanical position accuracy	< 0.05 mm
Multiturn encoder resolution	12 bits/revolution (4096 increments)
Electrical connections Fieldbus Ethernet UDP / Ethernet IP / Profinet Operating voltage	 M8 D-encoded, 4-pin M12 L-encoded, 5-pin
Installation altitude	max. 3000 m above sea level
Ambient temperature	+10 to +60 °C
Storage temperature	-20 to +80 °C
Air humidity	15 to 95 % (without condensation)
Certifications	Declaration of incorporation according to Machinery directive 2006/42/EC
Protection class	IP 54
Weight	7.1 kg / 8.0 kg / 8.8 kg / 9.6 kg

Subject to technical change without notice

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