



SIEMENS

Ingenuity for life

On-site Commissioning

Product Description

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Advance, complex machines and plants must be put into operation on-site by qualified personnel. Due to strict technical requirements it is often difficult to find qualified service providers for these services and the training of in-house employees means high costs.

Commissioning engineers from Siemens Electric Machines s. r. o. in Drásov provide round-the-clock, worldwide optimum service to the customers, based on extensive know-how.

Commissioning is a complex process requiring specialized know-how of the machine and on-site experience, including tuning of the whole system. When carefully performed according to correct procedures, commissioning is an investment in availability and reliability over the entire lifetime of the equipment.

Benefits

- Full manufacturer support
- Fully updated documentation
- Comprehensive commissioning report
- Maximized availability and reliability
- Extended equipment lifetime

Risks

- Unprofessional commissioning can lead to the loss of warranty
- Unprofessional commissioning can mean extra costs for more frequent maintenance and shorter operating life
- When performing unprofessional commissioning there is a risk of irreversible damage of parts including machine winding with high repair costs

Commissioning in Steps

- visual inspection of the main cable terminals
- check of cooling and lubricating systems
- electrical measurement and check of all machine wiring
- testing and calibrating set-up parameters
- protection testing
- excitation system and Automatic Voltage Regulation (AVR) setting
- check of the idle running, load running and connection of generator phases to the grid
- check of operating parameters – load sharing, checking operating temperatures and vibrations



Basic data

Machine type:	Synchronous generator 0,5 up to 25 MVA Synchronous and asynchronous motors 0,5 up to 20 MW
Frame sizes:	400 mm – 1340 mm
Speed:	500 r.p.m. – 1 800 r.p.m.
Frequency:	50 Hz – 60 Hz
Voltage:	380 V – 13,8 kV
Type of cooling system:	IC01, IC31, IC81W and others
Mounting form:	Horizontal feet mounted, Flanged bearing shield or shaft end, Vertical flange mounted
Degree of protection:	IP 23, IP 44, IP 54 and others
Standards:	IEC, EN, DIN, VDE and others Marine certification (DNV-GL, ABS, BV, LRS, CSS, RINA, RMRS and others)
Explosion protection:	Ex p/Ex n
Machine weight:	5 through 40 tons

Other Customer Service products:

- Spare part management
- Generator and motor retrofits
- Preventive maintenance and field service
- Repairs in the production plant or through a network of SIEMENS repair shops
- Vibration diagnostics and machine diagnostics (with a possible online monitoring)
- Service contracts
- Trainings

Contact

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