



SIEMENS

Ingenuity for life

Retrofitting of Electric Generators and Motors

Product Description

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Retrofitting is a process of modernization, enabling replacement of original equipment without the need of long outage which is necessary for motor and generator replacement. A fast and professional replacement of an obsolete motor or generator is usually carried out without adjustments of anchorage and supply dimensions.

A team of qualified quotation specialists will provide you with an optimum solution of a new machine for a present installation. In this phase it is possible to adjust various electrical and mechanical parameters of a new SIEMENS motor or generator (higher machine power, change of machine enclosure, change of cooling type, adding sensors for monitoring machine state, more modern machine regulation, etc.).

Electrical and mechanical design of the new motor or generator is carried out according to original machine documentation, model identification plate or directly according to the original machine. As an option our specialist can visit your production site to investigate the current size and parameters of the obsolete machine to obtain basic information for a new offer.

Benefits

- SIEMENS motor and generator with higher efficiency made with the newest available technology
- Use of original base-frames and connections
- Lower operational cost
- Shorter and fewer down-times
- Cheaper and available spare parts

Risks when operating an old machine:

- High maintenance costs
- Risk of outage during failure (causing further financial losses due to stoppage of production)
- Low availability of spare parts
- Safety risks

Machine before retrofitting



Machine after retrofitting



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 RPM – 1 800 RPM
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

Contact

Siemens Electric Machines s.r.o.
Process Industries and Drives Division
PD LD AP MF-DSV CS

Drásov 126
664 24 Drásov, Czech Republic
service tel.: +420 549 426 440

service e-mail:
servicedrasov.cz@siemens.com

For more information please go to:
siemens.cz/sem

Other Customer Service products:

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