



# SIEMENS

*Ingenuity for life*

## Repairs of Electric Generators and Motors

### Product Description

[siemens.cz/semf](https://www.siemens.cz/semf)

**We repair motors and generators manufactured by Siemens Electric Machines s.r.o. as well as those manufactured by other brands. As with our other services, we fully understand that machine failures and outages are inconvenient for the user.**

Our priority and underlying philosophy is to carry out the repair as soon as possible, guaranteeing the highest quality of repair. Where possible, repairs use the same processes and technologies as those used in the manufacture of new machines, which gives a service life of more than 20 years for the repaired parts. We will always consult you about each repair, and the extent of the repair can be adjusted as agreed.

If you need a repair, just send us the machine's identification details, i.e. machine type and serial

number, a description of the failure, including photos of the machine as a whole and the damaged sites. Based on this information we will prepare a quote for repairing the machine, containing a list of parts that will be replaced with new ones during the repair.

The machine to be repaired is transported to the Drásov plant, where it is dismantled and detailed fault diagnostics are carried out. We will inform you about the extent of the damage found. If the extent of the repair needs adjusting, the quote will be revised and we will consult you about the repair once again. During fault diagnostics, the machine is dismantled into its basic parts, so that visual, dimensional and electrical tests of each part can be carried out to determine the total extent of the damage.

## Siemens offers the following repairs

- Winding repair
- Rewinding
- Balancing
- Mechanical parts repair
- Replacement of worn parts
- Reverse engineering
- Overhaul
- Final report, including repair description, pictures and records



## Benefits

- Repairs at the manufacturer's high level of quality
- Repair reports provide transparency for all services carried out and parts used
- Worldwide network of certified workshops
- Warranty period for the carried out repair service
- Repair of other manufacturers' machines
- Long-lasting operability
- Professional renovation of insulation system

## Risks

- Poor quality of repairs carried out in workshops without Siemens certification
- Usage of poor quality parts can reduce the life-time of repaired machines
- Unprofessional repairs may result in irreversible damage to machine parts, including machine winding - with high repair costs
- Safety risks

## Basic data

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

### Contact

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**For more information please go to:**  
[www.siemens.cz/sem](http://www.siemens.cz/sem)

## Other Customer Service products

- Spare part management
- Generator and motor retrofits
- Preventive maintenance and field service
- Vibration diagnostics and machine diagnostics (with a possible online monitoring)
- Service contracts
- Commissioning
- Trainings