

Low-Frequency-Generator



Application:

Low frequency generators are used to improve the demagnetizing effects of plate and tunnel demagnetizing units.

Low frequency generators from WAGNER reduce the mains frequency to 16.5 Hz. This allows greater field strengths in the alternating magnetic field of demagnetizing units and improves the demagnetizing quality considerably, in particular in case of high-alloyed and hardened materials.

In case of massive materials, mass parts and bulk materials in containers the depths effect is considerably increased.

All alternating current demagnetizing units from WAGNER can be operated with the low-frequency generator, type 243, as cut-in unit. It needs to be considered that the nominal output of the low frequency generator must be sufficient for the connected unit.

Design:

The unit is integrated in a housing with protection class IP 20, which is easy to assemble and service, and it complies with all EMC guidelines. In order to comply with protection class IP 65, the unit is additionally integrated in a housing complying with this protection class.

Special features:

- easy installation and assembly of the compact unit
- Function monitoring of:
 - overcurrent, heat-sink temperature and the 16.5 Hz function
- Feedback via 24V control signals
- Switching off the demagnetizing unit in ramps of 16.5 Hz
- Display of the demagnetizing current via LED bargraph display
- To increase the output, the units can be operated in master/slave mode

Performance:

- Operating time: 100%
- Mains frequency: 50/60 Hz
- Input voltage: 230 or 400 V AC depending on the model, max. 15 or 30 A for the demagnetizing unit

Dimensions and technical data:

Type	Article no.	Protection class IP	Connection [Volt] *	Output [VA]	Dimensions [W x H x D]	Weight [kg]	Power choke [Art. no.]
243-15/16.5:230	1064367	20	230	3450	160x175x128	2,9	0216339
243-15/16.5:400	1067010	20	400	6000	160x175x128	2,9	0216339
243-15/16.5 S-1:230	1067033	65	230	3450	200x400x150	8,0	included
243-15/16.5 S-1:400	1067034	65	400	6000	200x400x150	8,0	included
243-15/16.5 S-2:230	1067035	65	230	3450	200x400x150	8,0	included
243-15/16.5 S-2:400	1067036	65	400	6000	200x400x150	8,0	included
243-30/16.5:230	1064368	20	230	6900	160x175x128	2,9	0216340
243-30/16.5:400	1067011	20	400	12000	160x175x128	2,9	0216340
243-30/16.5 S-1:230	1065623	65	230	6900	200x400x150	8,0	included
243-30/16.5 S-1:400	1067030	65	400	12000	200x400x150	8,0	included
243-30/16.5 S-2:230	1067031	65	230	6900	200x400x150	8,0	included
243-30/16.5 S-2:400	1067032	65	400	12000	200x400x150	8,0	included

* Mains frequency: 50/60 Hz



Low-Frequency-Generators IP 20

The low frequency generator plus corresponding power choke is to be installed in the electrical cabinet which is provided by the customer.



Low-Frequency-Generators IP 65

The low frequency generator is integrated in the housing for wall installation.

- S-1 control via external signals (24V DC)
- S-2 with integrated switch "50 Hz / OFF / 16,5 Hz"