

Power Safety

Protect 3.31

Uninterruptible power safety with 100 % digital technology
10-60 kVA

Classification VFI SS 111 according to IEC/EN 62040-3

The top of power safety

Modern IT systems such as host computers, file server, workstations and computing centres, and their integration into complex networks have become indispensable for the competitiveness of manufacturing and service industries. However, a smooth and uninterrupted supply of electricity is an essential precondition for the trouble free performance of such systems. Malfunctions in the mains supply, such as power failure, voltage fluctuation or short power interruptions lasting less than a millisecond, may cause loss of important data, program errors or even hardware damage, thereby posing a serious threat to production processes.

Protection around the clock

PROTECT 3.31, the innovative generation UPS from AEG PSS not only gives online equipment round the clock protection, but also offers a technically advanced and economic solution for the power supply requirements of modern data-processing equipment.

For more information on UPS system and on the protection by AEG PSS, just contact your nearest sales office.

Key features

- Low operating costs
- Excellent dynamic response
- Separate microprocessors for rectifier, inverter and SBS unit
- High efficiency, even in part-load range
- Communication with all standard computers and networks
- Integrated (SNMP) network interface option available



- Automatic shut down and reboot operations for all common EDP-systems
- Battery-circuit monitoring
- Modern computer design, compact size, low noise level
- Ergonomic graphic display with 17 languages for ease of operation and start-up
- Complies with the specifications of all leading computer manufacturers
- Wide range of options available
- CE compliant
- Redundant fans



Protect 3.31: Specification

Type power at cos ϕ 0,8 lag. in kVA	10	20	30	40	60
RECTIFIER UNIT					
Nominal voltage in V	3 x 400				
Operating range min./max. in V	340/460				
Frequency in Hz	45–66				
Input current in A at nominal load	17	33	50	66	98
Input current in A at nominal load + battery charging	21	41	62	82	123
Charging characteristic acc. IEC 478-10	IU				
Nominal DC voltage	384				
Max. charging voltage in V	461				
Total harmonic distortion standard/option (pulse)	6/Filter	6/Filter	6/Filter	6/12	6/12
INVERTER UNIT					
Nominal DC voltage min./max. in V	307/461				
Nominal AC voltage in V	230				
Adjustable min./max. in V	220/240				
Static response	< \pm 1 %				
Dynamic response	< \pm 5 %				
Correction time	2 ms				
Frequency in Hz	50/60				
Frequency tolerance without mains	\pm 0,1 %				
Frequency synchronisation range	\pm 1 %				
Power factor range cos ϕ	cap-1-ind				
Output phase current in A	43	87	130	174	261
Voltage wave form	sinus				
Voltage distortion	\leq 3 %				
Crest factor	max. 3				
Overload response for 1 min.	150 %				
Overload response for 10 min.	125 %				
short circuit response of I_{nom} typical	300 %				
STATIC BYPASS SWITCH					
AC voltage min./nominal/max. in V	220/230/240				
Frequency in Hz	50/60				
Nominal power in kVA	10	20	30	40	60
Overload	500 %				
GENERAL DATA					
Efficiency total up to	92 %				
ECOpx® (option)	up to 98 %				
Noise level in dB(A) depending on type	< 55-65				
EMC compatibility acc. EN 60040-2	C 2				
Air cooling with redundant/monitored fans	yes				
Operating-temperature range min./max. in °C	– 5/+ 40				
Storage-temperature min./max. in °C	– 30/+ 75				
Installation height NN	1000 m				
Protection degree acc. IEC 529/EN 60529	IP20				
Equipment colour	RAL 7035				
DIMENSIONS					
Height standard device in mm	1810	1810	1810	1810	1810
Height with max. options in mm	1915	1915	1915	1915	1915
Width in mm	600	600	750	1200	1200
Depth in mm	860	860	860	860	860
Weight in kg	275	325	375	550	650

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PERFECT IN FORM AND FUNCTION

AEG