

AEG

Power supply systems

PROTECT 3.33

Uninterruptible power safety
with 100 % digital technology
10-120 kVA

Classification VFI SS 111 according 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 power supply, such as power failure, voltage fluctuations or short power interruptions lasting no more than a millisecond, may cause loss of important data, program errors or even hardware damage, thereby posing a serious threat to production processes.



>> PROTECT 3.33

Protection around the clock

PROTECT 3.33, the new generation UPS from AEG PSS not only gives on-line 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 the PROTECT 3 system please 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
- VT100 emulation for IBM-users
- Battery-circuit monitoring
- Modern computer design, compact size, low noise level
- Ergonomic full graphical display for ease of operation (clear letter indication 17 diff. languages)
- Complies with the specifications of all leading computer manufacturers
- Wide range of options available
- CE - compliant
- Redundant fans

SPECIFICATION

Type power at $\cos \varphi$ 0,8 lag. in kVA	10	20	30	40	60	80	100	120
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RECTIFIER UNIT

Nominal voltage in V	3 x 400							
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Operating range min./max. in V	340 / 460							
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Frequency in Hz	45 - 66							
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Input current in A at nominal load	17	33	50	66	98	130	163	195
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Input current in A at nominal load + battery charging	21	41	62	82	123	164	205	246
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Charging characteristic acc. IEC 478-10	IU							
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Nominal DC voltage	384							
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Max. charging voltage in V	461							
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Total harmonic distortion standard/option (pulse)	6 / Filter	6 / Filter	6 / Filter	6 / Filter	6 / Filter	6 / 12	6 / 12	6 / 12
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Type power at cos φ 0,8 lag. in kVA	10	20	30	40	60	80	100	120
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INVERTER UNIT

Nominal DC voltage min./max. in V	307 / 461							
Nominal AC voltage in V	3 x 400							
Adjustable min./max. in V	380 / 415							
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	14	29	43	58	87	116	145	173
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

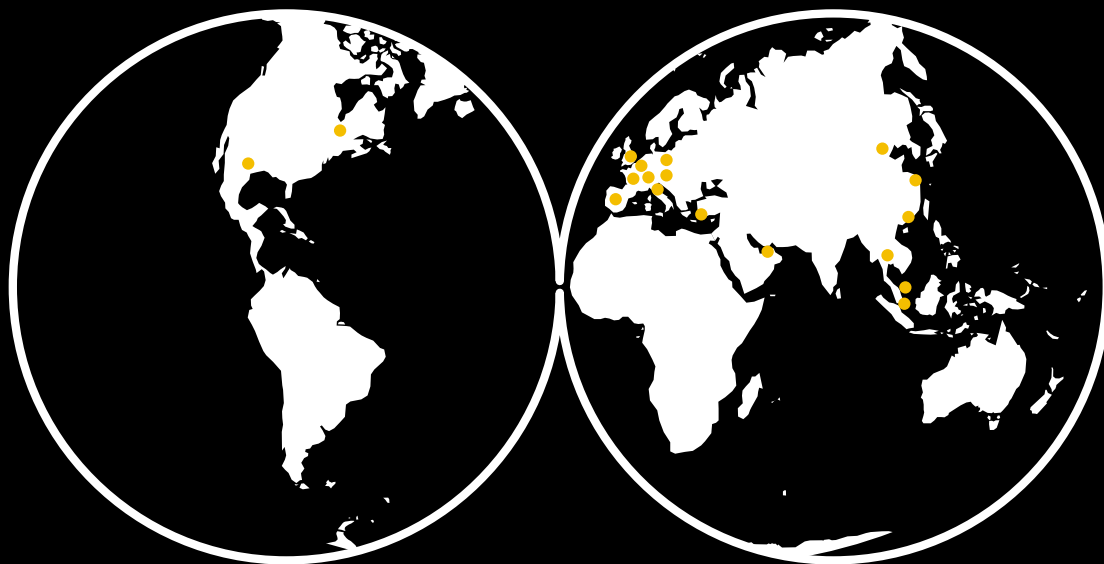
AC voltage min./nominal/max. in V	3 x 380 / 400 / 415							
Frequency in Hz	50 / 60							
Nominal power in kVA	10	20	30	40	60	80	100	120
Overload	500 %							

GENERAL DATA

Efficiency total up to	94 %							
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 $^{\circ}$ C	- 5 / + 40							
Storage-temperature range min./max. in $^{\circ}$ C	- 30 / + 75							
Installation height NN	1000 m							
Protection degree acc. IEC 529 / EN 60529	IP20							
Equipment colour	RAL 7032							

DIMENSIONS

Height standard device in mm	1710	1710	1710	1710	1710	1710	1710	1710
Height with max. options in mm	1815	1815	1815	1815	1815	1815	1815	1815
Width in mm	600	600	600	600	750	1200	1200	1200
Depth in mm	735	735	735	735	735	735	735	735
Weight in kg	350	370	450	470	550	800	900	900



Power Systems

Whenever wherever watterver

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Saft power systems

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