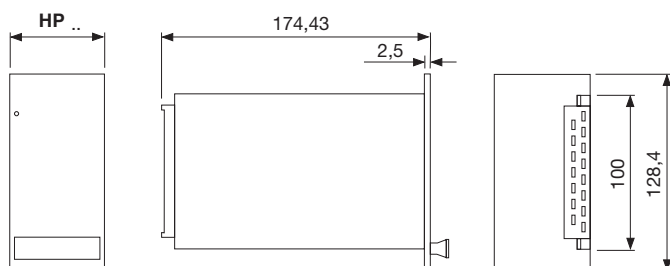




- 19" plug-in module
- Autoranging 120/230 VAC
- Remote on/off
- Optional Power-Fail and ACFAIL signal
- Short-circuit protection
- Design certification and output SELV according to EN 60950
- Overtemperature protection



**3U**

Front panel: 8HP - 40.3

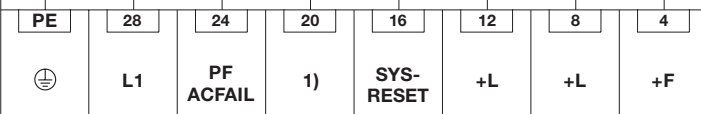
Handle width: 3HP

ORDER DATA				Order numbers in italics	
Vo V	Io A	Width HP	Height U	Type No. with PF signal	Type No. with ACFAIL signal
5	0 – 15	8	3	<b>P110-05151PF</b> <i>15.9240.002</i>	<b>P110-05151AC</b> <i>15.9240.004</i>
5	0 – 20	8	3	<b>P110-05201PF</b> <i>15.9240.102</i>	<b>P110-05201AC</b> <i>15.9240.104</i>
12	0 – 9	8	3	<b>P110-12091PF</b> <i>15.9240.202</i>	<b>P110-12091AC</b> <i>15.9240.204</i>
15	0 – 7	8	3	<b>P110-15071PF</b> <i>15.9240.302</i>	<b>P110-15071AC</b> <i>15.9240.304</i>
24	0 – 5	8	3	<b>P110-24051PF</b> <i>15.9240.402</i>	<b>P110-24051AC</b> <i>15.9240.404</i>
48	0 – 2,5	8	3	<b>P110-48021PF</b> <i>15.9240.502</i>	<b>P110-48021AC</b> <i>15.9240.504</i>
<b>Additional output voltages upon request, e.g. 3.3 V</b>					
Additionally:					
Front panel (natural anodized)			33.1571.006.011		
Assembly kit for DIN-rail			15.7140.000.190		
Assembly kit for wall mounting			15.7140.000.290		

**AC/DC POWER SUPPLY  
PRIMARY SWITCHED MODE  
SINGLE OUTPUT  
P 110 SERIES**

<b>INPUT</b>	<b>EMC</b>
Input voltage range AC 187 – 264V, 50/60 Hz with autoranging to AC 99 – 138V	Mains feedback (PFC) EN 61000-3-2 Class A Flicker EN 61000-3-3 Interference suppression/ interference immunity EN 61000-6-2 EN 61000-4-2 Intensity 4 EN 61000-4-3 Noise level 10 V/m EN 61000-4-4 Intensity 4 EN 61000-4-5 Intensity 4 EN 61000-4-11
Efficiency 80 – 87%	Interference emission EN 50081-1 EN 55011/EN 55022 Class B, Radiation depends on assembly
Input current limitation ≤ 10 A <sub>peak</sub> typ. – in cold state ≤ 15 A <sub>peak</sub> typ. – in hot state	
Internal fuse 3.15 AT	
<b>OUTPUT</b>	<b>OPERATING DATA</b>
Preset range V <sub>o</sub> ±5%	Temperature range 0 to +70°C, at free convection
Operation indicator Green LED for V <sub>o</sub>	Derating 2.5% / K at +50°C (see diagram)
Ripple < 40 mV <sub>pp</sub> , < 50m V <sub>pp</sub> at 48 V	Weight 0.52 kg
Noise voltage < 50 mV <sub>pp</sub> typ. (band width 20 MHz)	<b>Ventilation from bottom to top of the power supply and the housing-specific heatradiation must not be obstructed when installing the power supply. Ensure fire protection by means of the superior housing system.</b>
Temperature coefficient ≤ 0.025% / K	<b>MECHANICS</b>
Switch on/switch off No overshoot of V <sub>o</sub> (soft-start)	Dimensions 19" plug-in module according to DIN 41494 Part 5
Shut down on/off SD TTL-compatible low = off, high or open = on (in relation to -L, approx. 0.5 mA at low)	Connection Connector H 15/DIN 41612 codable
Remote on/off OFF low or open = on, high = off (in relation to -L, approx. 20 mA at high and 5 V)	
Start-up delay Typ. 500 ms	<b>PIN ASSIGNMENT</b>
Rise time ≤ 30 ms	
<b>REGULATION</b>	
Line regulation < 0.1% for V <sub>o</sub> at V <sub>imin</sub> - V <sub>imax</sub>	
Load regulation < 0.2% for V <sub>o</sub> at I <sub>o</sub> 0 - 100%	
Response time < 0.5 ms at I <sub>o</sub> 20 - 80%	
<b>PROTECTION AND CONTROLLING</b>	
Overvoltage protection 125% ±5% V <sub>onominal</sub> , automatic repeat	
Current limitation Typ. 110% I <sub>onominal</sub> , straight characteristic, output permanent short-circuit proof	
Overtemperature protection Reduction of output voltage V <sub>o</sub> until unit switches off. Return to normal operation after cooling down.	
Mains buffering 40 ms at 100% load	
Power-Fail (see diagram) The transistor for the PF-signal is blocked, if the output voltage has reached a value > 95% of the nominal output voltage. The transistor becomes conductive > 10 ms before the output voltage drops.	
Signals ACFAIL and SYSRESET Open collector, low-active-level	
<b>SAFETY</b>	
EN 60950 / VDE 0805 Safety Class I, VDE 0100 CSA NRTL/C / UL 1950 / CSA 22.2-950	

H15  
DIN 41612



**1) internally connected**

**EXPLANATORY NOTES**

**PE** ⊕ Protective conductor  
**Do not use supply without PE-connection!**

**L1 / N** Mains phase / neutral conductor

**L** Load connection  
(14 A max. for each contact)

**F** Sense connections

**For reliable operation of the device, it is necessary to connect +L with +F and -L with -F. Maximum voltage compensation of 0.25 V per line.**

**Please refer to the MGV user instructions before use (also in Internet: [www.mgv.de](http://www.mgv.de))**

