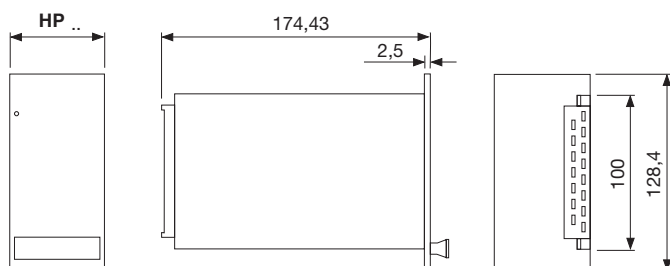




- 19" plug-in module
- Autoranging 120/230 VAC
- Remote on/off
- Optional Power-Fail and ACFAIL signal
- Short-circuit protection
- Design certification and output SELV according to EN 60950
- Overtemperature protection




3U

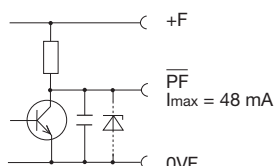
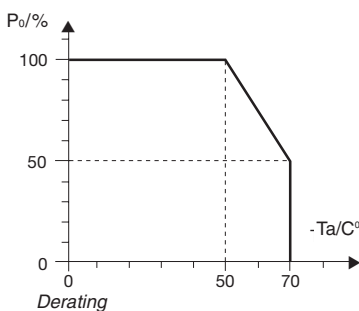
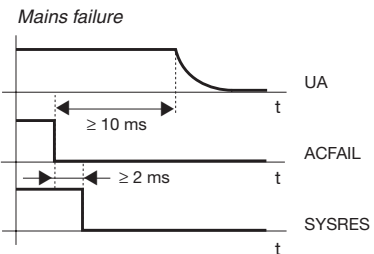
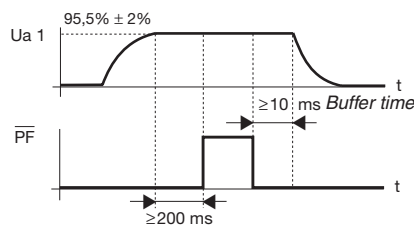
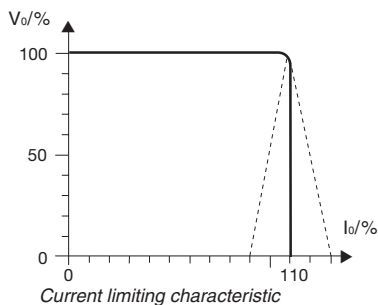
Front panel: 8HP - 40.3

Handle width: 3HP

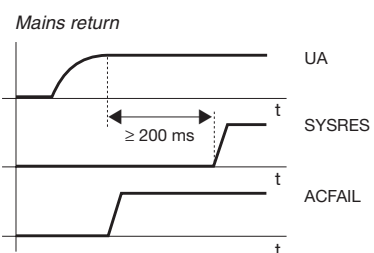
ORDER DATA				Order numbers in italics	
Vo V	Io A	Width HP	Height U	Type No. with PF signal	Type No. with ACFAIL signal
5	0 – 15	8	3	P110-05151PF <i>15.9240.002</i>	P110-05151AC <i>15.9240.004</i>
5	0 – 20	8	3	P110-05201PF <i>15.9240.102</i>	P110-05201AC <i>15.9240.104</i>
12	0 – 9	8	3	P110-12091PF <i>15.9240.202</i>	P110-12091AC <i>15.9240.204</i>
15	0 – 7	8	3	P110-15071PF <i>15.9240.302</i>	P110-15071AC <i>15.9240.304</i>
24	0 – 5	8	3	P110-24051PF <i>15.9240.402</i>	P110-24051AC <i>15.9240.404</i>
48	0 – 2,5	8	3	P110-48021PF <i>15.9240.502</i>	P110-48021AC <i>15.9240.504</i>
Additional output voltages upon request, e.g. 3.3 V					
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**

INPUT	EMC
Input voltage range AC 187 – 264V, 50/60 Hz with autoranging to AC 99 – 138V or DC 264 - 347V	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%	
Input current limitation $\leq 10 A_{peak}$ typ. – in cold state $\leq 15 A_{peak}$ typ. – in hot state	
Internal fuse 3.15 AT	
OUTPUT	OPERATING DATA
Preset range V_o $\pm 5\%$	Temperature range 0 to +70°C, at free convection Derating 2.5% / K at +50°C (see diagram) Weight 0.52 kg
Operation indicator Green LED for V_o	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.
Ripple $< 40 mV_{pp}$, $< 50m V_{pp}$ at 48 V	MECHANICS
Noise voltage $< 50 mV_{pp}$ typ. (band width 20 MHz)	Dimensions 19" plug-in module according to DIN 41494 Part 5
Temperature coefficient $\leq 0.025\% / K$	Connection Connector H 15/DIN 41612 codable
Switch on/switch off No overshoot of V_o (soft-start)	
Shut down on/off SD TTL-compatible low = off, high or open = on (in relation to -L, approx. 0.5 mA at low)	
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	
Rise time ≤ 30 ms	
REGULATION	PIN ASSIGNMENT
Line regulation $< 0.1\%$ for V_o at $V_{imin} - V_{imax}$	H15 DIN 41612
Load regulation $< 0.2\%$ for V_o at $I_o 0 - 100\%$	30 26 22 18 14 10 6
Response time < 0.5 ms at $I_o 20 - 80\%$	N 1) OFF SD -L -L -F
PROTECTION AND CONTROLLING	PE 28 24 20 16 12 8 4
Overvoltage protection 125% $\pm 5\%$ $V_{onominal}$, automatic repeat	L1 PF ACFAIL 1) SYS-RESET +L +L +F
Current limitation Typ. 110% $I_{onominal}$, straight characteristic, output permanent short-circuit proof	
Overtemperature protection Reduction of output voltage V_o 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.	1) internally connected
Signals ACFAIL and SYSRESET Open collector, low-active-level	EXPLANATORY NOTES
SAFETY	PE \oplus Protective conductor Do not use supply without PE-connection!
EN 60950 / VDE 0805 Safety Class I, VDE 0100 CSA NRTL/C / UL 1950 / CSA 22.2-950	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)



Power-Fail-Signal



Signale ACFAIL / SYSRESET