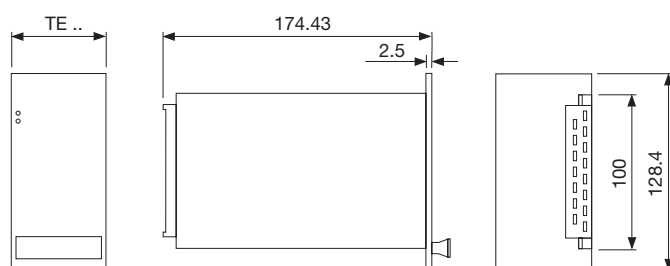




- 19" plug-in module
- Autoranging 120/230 VAC
- All outputs permanent short-circuit proof
- Outputs SELV according to EN 60950
- Overtemperature protection
- Optional Power-Fail and ACFAIL signal
- EMC Standards EN 50081-1 and EN 50082-1



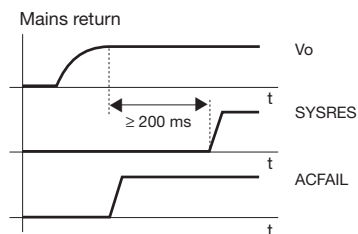
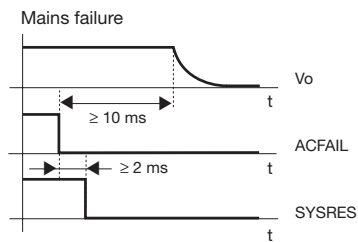
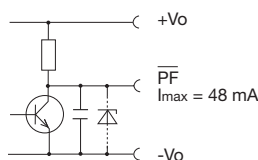
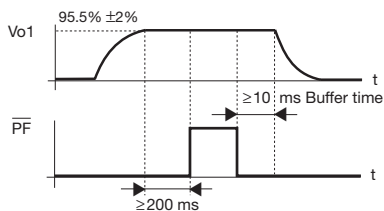
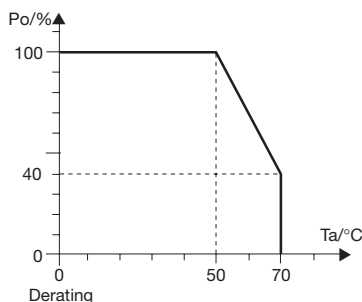
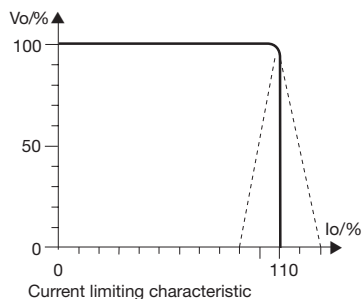
3HE

Front panel: 8TE - 40.3
Handle width: 3TE

ORDER DATA								Order numbers in italics	
Vo1 V	Io1 A	Vo2 V	Io2 A	Vo3 V	Io3 A	Width TE	Height HE	Type No. with PF-Signal	Order No. with ACFAIL-Signal
+5.1	0 – 14	+12	0 – 2	-12	0 – 1	8	3	P3094-05121PF 15.7240.502	P3094-05121AC 15.7240.504
+5.1	0 – 14	+15	0 – 1.5	-15	0 – 1	8	3	P3094-05151PF 15.7240.512	P3094-05151AC 15.7240.514
Additionally:									
Front panel (nature 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
TRIPLE OUTPUT
P 3094 SERIES

INPUT		EMC	
Input voltage range	AC 187 – 264 V, 50/60 Hz with autoranging at AC 90 – 138 V (at 90 – 94 VAC only 85% nominal load) or DC 264 – 347 V	Mains feedback (PFC)	EN 61000-3-2: 1995 Class A
Efficiency	typ. 75%	Flicker	EN 61000-3-3
Input current limitation	$\leq 10 A_{peak}$ typ. – in cold state $\leq 15 A_{peak}$ typ. – in hot state	Interference suppression/ interference immunity	EN 50082-2: 1997 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
Internal fuse	3.15 AT	Interference emission	EN 50081-1: 1992 EN 55011 / EN 55022 Class B, interference transmission depends on assembly
OUTPUT		OPERATING DATA	
Adjustment range Vo	$\pm 5\%$	Temperature range	0...+70°C, at free convection
Operation indicator	Green LED for Vo1	Derating	3% / K at +50°C (see diagram)
Ripple	Vo1 < 45 mV _{pp} , Vo2/3 < 15 mV _{pp}	Weight	0.7 kg
Noise voltage	< 50 mV _{pp} typ. (band width 20 MHz)	Ventilation from bottom to top of the power supply and the housing-specific heat radiation must not be obstructed when installing the power supply. Ensure fire protection by means of the surrounding housing system. In general, kindly refer to the MGTV user instructions before use.	
Temperature coefficient	$\leq 0.025\%$ / K		
Switch on/switch off performance	No overshooting of Vo (soft-start)		
Rise-delay time	typ. 500 ms	MECHANICS	
Run-up time	≤ 30 ms	Dimensions	19" plug-in module according to DIN 41494 Part 5
REGULATION		Connection	Connector H 15 / DIN 41612 codable
Line regulation	< 0.1% for Vo1 at V _{imin} - V _{imax} < 0.2% for Vo2 and Vo3 at V _i 230 VAC +15% -19%	PIN CONNECTIONS	
Load regulation	< 0.1% for Vo1 at I _o 0 – 100% -3% +5% for Vo2, Vo3 at I _o 0 – 100%	H15 DIN 41612	30 26 22 18 14 10 6
Response time	< 1 ms at I _o 20 – 80%		N near mains -12VL -15VL 1) OVL OVL OVF
PROTECTION AND CONTROLLING			32 28 24 20 16 12 8 4
Overvoltage protection	125% $\pm 5\%$ for all Vo, automatically repeating	PE	L1 PF +12VL +15VL SYS-RESET +5VL +5VL +5VF
Current limitation	typ. 110% I _{nominal} , straight characteristic. Output permanent short-circuit proof	1) internally connected Additional connections available!	
Overtemperature protection	Switches off when inside temperature becomes too high, periodical restart	EXPLANATION	
Mains buffering	10 ms at 100% load and Vo = 187 VAC	PE	Protective conductor
Power-Fail (see diagram)	PF recognition at Vo > 94 VAC The transistor for the PF-signal is blocked, if the output voltage reached a value > 95% of the nominal output voltage. The transistor becomes conductive > 10 ms before the output voltage drops.	L1 / N	Do not use supply without PE-connection!
Signals ACFAIL and SYSRESET	Open-collector, low-active-level	L	Mains phase / neutral conductor
SAFETY		F	Load connection
	IEC 60950, EN 60950 / VDE 0805 Safety Class I, VDE 0100 UL 1950 / CSA 22.2-950	OVL	(14 A max. for each contact)
		Sense lines at 5 V	Sense connection (Signal line)
			Common ground for Vo1, Vo2, Vo3
			For a safe operating mode of the device, it is mandatory to connect +5VL with +5VF and OVL with OVF. Maximum voltage compensation of 0.25 V of each line.



Signals ACFAIL / SYSRESET