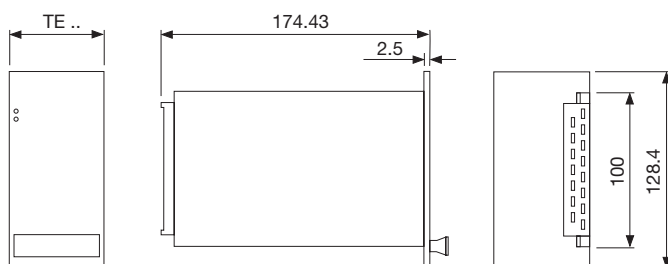




- 19" plug-in module
- Autoranging 120/230 VAC
- All outputs permanent short-circuit proof
- Outputs SELV according to EN 60950
- Overtemperature protection
- Optional Power-Fail and ACFAIL signal
- EMC Standards EN 50081-1 and EN 50082-1



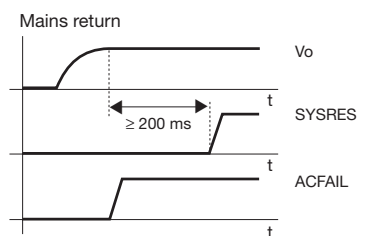
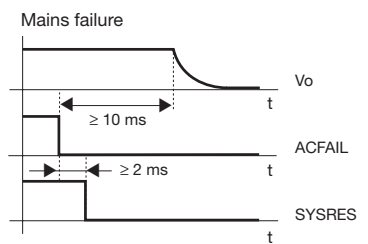
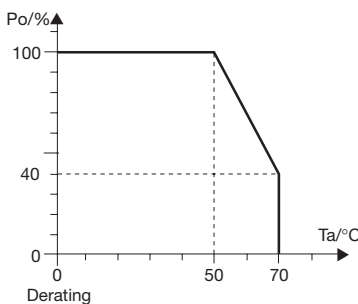
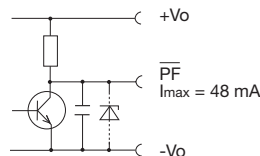
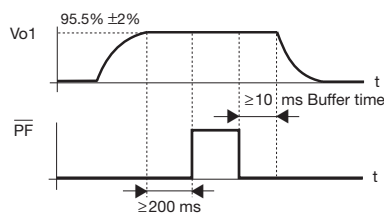
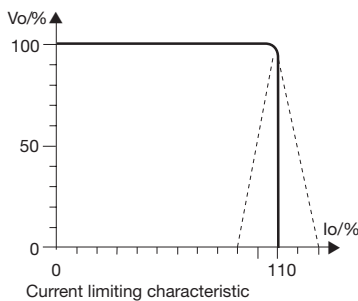
3HE

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 <i>15.7240.502</i>	P3094-05121AC <i>15.7240.504</i>
+5.1	0 – 14	+15	0 – 1.5	-15	0 – 1	8	3	P3094-05151PF <i>15.7240.512</i>	P3094-05151AC <i>15.7240.514</i>
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 Flicker EN 61000-3-3 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																
Efficiency typ. 75%	Interference emission EN 50081-1: 1992 EN 55011 / EN 55022 Class B, interference transmission depends on assembly																
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																
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 heatradiation 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 MGV user instructions before use.																
Noise voltage < 50 mV _{pp} typ. (band width 20 MHz)																	
Temperature coefficient $\leq 0.025\%$ / K																	
Switch on/switch off performance No overshooting of Vo (soft-start)																	
Rise-delay time typ. 500 ms																	
Run-up time ≤ 30 ms																	
REGULATION	MECHANICS																
Line regulation < 0.1% for Vo1 at V _{imin} - V _{imax} < 0.2% for Vo2 and Vo3 at V _i 230 VAC +15% -19%	Dimensions 19" plug-in module according to DIN 41494 Part 5																
Load regulation < 0.1% for Vo1 at I _o 0 – 100% -3% +5% for Vo2, Vo3 at I _o 0 – 100%	Connection Connector H 15 / DIN 41612 codable																
Response time < 1 ms at I _o 20 – 80%																	
PROTECTION AND CONTROLLING	PIN CONNECTIONS																
Overvoltage protection 125% $\pm 5\%$ for all Vo, automatically repeating	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">H15 DIN 41612</td> <td style="width: 20px; text-align: center;">30</td> <td style="width: 20px; text-align: center;">26</td> <td style="width: 20px; text-align: center;">22</td> <td style="width: 20px; text-align: center;">18</td> <td style="width: 20px; text-align: center;">14</td> <td style="width: 20px; text-align: center;">10</td> <td style="width: 20px; text-align: center;">6</td> </tr> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">near mains</td> <td style="text-align: center;">-12VL -15VL</td> <td style="text-align: center;">1)</td> <td style="text-align: center;">OVL</td> <td style="text-align: center;">OVL</td> <td style="text-align: center;">OVF</td> </tr> </table>	H15 DIN 41612	30	26	22	18	14	10	6		N	near mains	-12VL -15VL	1)	OVL	OVL	OVF
H15 DIN 41612	30	26	22	18	14	10	6										
	N	near mains	-12VL -15VL	1)	OVL	OVL	OVF										
Current limitation typ. 110% I _{nominal} , straight characteristic. Output permanent short-circuit proof	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">32</td> <td style="width: 20px; text-align: center;">28</td> <td style="width: 20px; text-align: center;">24</td> <td style="width: 20px; text-align: center;">20</td> <td style="width: 20px; text-align: center;">16</td> <td style="width: 20px; text-align: center;">12</td> <td style="width: 20px; text-align: center;">8</td> <td style="width: 20px; text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">PE ⊕</td> <td style="text-align: center;">L1</td> <td style="text-align: center;">PF ACFAIL</td> <td style="text-align: center;">+12VL +15VL</td> <td style="text-align: center;">SYS- RESET</td> <td style="text-align: center;">+5VL</td> <td style="text-align: center;">+5VL</td> <td style="text-align: center;">+5VF</td> </tr> </table>	32	28	24	20	16	12	8	4	PE ⊕	L1	PF ACFAIL	+12VL +15VL	SYS- RESET	+5VL	+5VL	+5VF
32	28	24	20	16	12	8	4										
PE ⊕	L1	PF ACFAIL	+12VL +15VL	SYS- RESET	+5VL	+5VL	+5VF										
Overtemperature protection Switches off when inside temperature becomes too high, periodical restart	1) internally connected Additional connections available!																
Mains buffering 10 ms at 100% load and Vo = 187 VAC	EXPLANATION																
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.	PE ⊕ Protective conductor Do not use supply without PE-connection!																
Signals ACFAIL and SYSRESET Open-collector, low-active-level	L1 / N Mains phase / neutral conductor																
	L Load connection (14 A max. for each contact)																
	F Sense connection (Signal line)																
	OVL Common ground for Vo1, Vo2, Vo3																
	Sense lines at 5 V 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.																
SAFETY																	
IEC 60950, EN 60950 / VDE 0805 Safety Class I, VDE 0100 UL 1950 / CSA 22.2-950																	



Signals ACFAIL / SYSRESET