



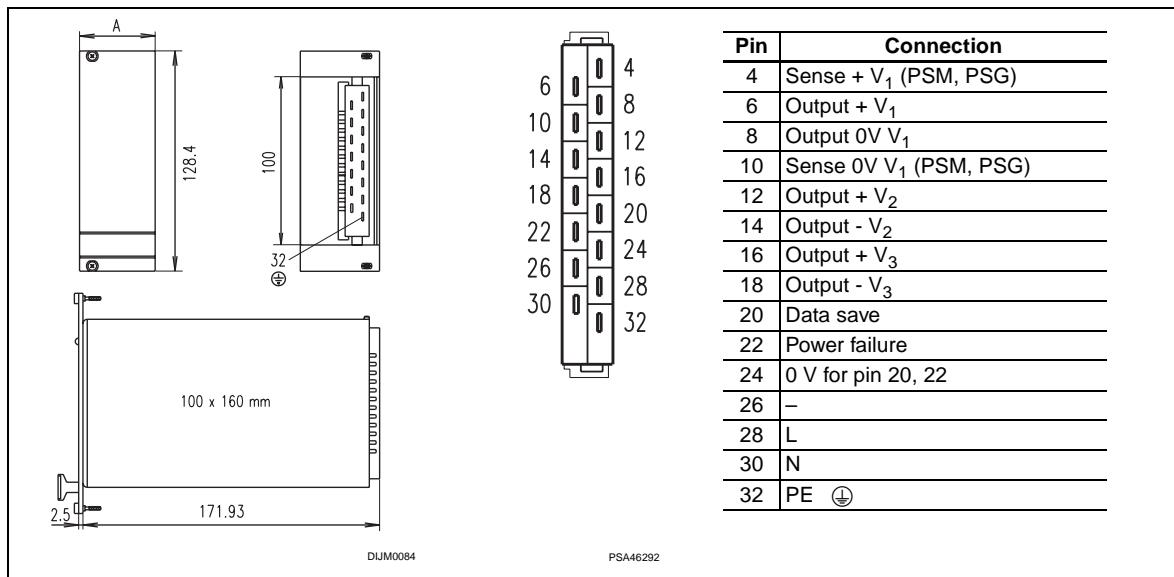
19" compatible AC/DC linear control systems



Triple, 7 – 39 W

- 19" compatible AC/DC power supply, pluggable 3 U
 - Mains input voltage 230 V_{AC} (can be converted to 115 V_{AC} with conversion kit, see below)
 - 3 output voltages (galvanically separated)
 - High control accuracy
 - Low residual ripple and very low-interference
 - Suitable for medical applications (8 mm safety clearances)
 - High reliability and long life

14300000



Note

The front panel is not included in delivery.

Output data at $T_U = 0 \dots 50^\circ\text{C}$							Order No. (1 unit) ¹⁾			
Voltage in V			Current in A			Power output in W	Width in HP	Power supply Type	Mains voltage ⁴⁾	Front panel EMC anodised
V ₁	V ₂	V ₃	I ₁	I ₂	I ₃			230 V _{AC}		
5	12	12	0.5	0.2	0.2	8	6	PSK 312 ³⁾	13105-051	21005-470
			1.5	0.5	0.5	20	10	PSM 312	13105-052	21005-451
			3.0	1.0	1.0	39	14	PSG 312	13105-053	21005-439

¹⁾ Please order front panel and other accessories separately

2) Front anodised, rear side chromated, slotted on both sides for mounting EMC contact strips in the event of increased EMC requirements

EMC requirements
(3 U EMC contact strips, Order No. 21101-705, 10 pieces)

3) Without case

⁴⁾ Mains voltage conversion kit 230 V to 115 V (Order No. 43105-999)

Mating connector H15E with EASTON connection. Order No. 69001-733

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Technical data

Input parameters			Protection and monitoring facilities			
Mainsvoltage (with con- version kit)			Power failurebridging at 100 % load			
Nominal values V_{IN} (operating- ranges)			$V_{IN} = 207 \text{ V}$, PSK, PSM>10 ms, PSG > 7 ms, $V_{IN} = 230 \text{ V}$, PSK, PSM>15 ms, PSG > 12 ms			
Mains nominal current at 230 V_{AC}			Over-voltage protection OVP for 5 V in the case of PSM and PSG			
Mains frequency range			$V_{Nominal} + 20 \%$			
Mains input current in accordance with			Constant current			
Efficiency type			Over-load protection, short-circuit current controlled max.			
Current at switch-on			I_1 type: PSK: $I_{nom.} + 20 \%$, PSM/PSG: $I_{nom.} + 50 \%$, $I_{2,3}$ type: 2 A			
Discharge current			Over-temperature protection of the series pass transistor			
Output parameters			Yes			
Output voltage (potentiometer $V_{1,2,3}$ at front)	factory set	5 V	$\geq 8 \text{ mm} / \geq 4 \text{ mm}$			
	Adjustment- range	4.755.25 ...V	Air and creepage dist- ance Primary-secondary side/ Primary PE			
Output current at 50 °C (70 °C)	PSK	0.5 (0.3) A	Power failure signals			
	PSM	1.5 (0.8) A	Power failure, save data: Active low, open collector			
	PSG	3 (1.5) A	Output voltage present, LED green			
Load control, static ($I_1=0 \dots I_1$ Nominal)	PSK	$\leq 0.2 \%$	Test and environmental conditions			
	PSM	$\leq 0.01 \%$	Climatic test to			
	PSG	$\leq 0.01 \%$	IEC 68-2-38			
Residual ripple			Shock and vibration in accordance with (acceleration of 2 g)			
Mains control at $\pm 10 \%$ change in mains voltage			Dimensions: Height 3 U			
Overall control time, tolerance $0.1 \% \times V_{1/2}$ Nominal, load change 0 ... 100 % $di/dt = 0.135 \text{ A}/\mu\text{s}$			Width: PSK 6 HP, PSM 10 HP, PSG 14 HP			
Temperature coefficient			Weight (mass)			
Remote sense (PSM, PSG) compensated			PSK 0.8 kg, PSM 1.6 kg, PSG 1.9 kg			
Test voltage to EN 60950	CE		CE			
	EMC interference- emission		EN 50081-1, EN 55011 Class B, EN 55022 Class B			
	EMC interference- immunity, degree of severity 3		EN 50082-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5			
	Safety, class of protection 1		EN 60950			
Input-output			Input-output			
Input PE			4.3 kVDC			
Output PE			Input PE			
Output-output			2.2 kVDC			
Toroidal transformer (low emission) to			Output PE			
Power supply maintenance-free			0.7 kVDC			
Cooling			Output-output			
Operation/storage ambient temperature			0.7 kVDC			
Relative humidity, non-condensing (operation/storage)			Toroidal transformer (low emission) to			
MTBF at full load, $T_U = 40^\circ\text{C}$			EN 60742			
PSK 850,000 h PSM/PSG 470,000 h			Power supply maintenance-free			
Schematic wiring diagram			Cooling			
			Operation/storage ambient temperature			
Pin 1: Mains/Line Pin 28: Fuse J 101: 115/230 VAC N 30: PE 32 PE 32: Ground 1) OVP: PSM, PSG 2) PSK internal connected			Relative humidity, non-condensing (operation/storage)			
Pin 4: + Sense V_1 (PSM, PSG) Pin 6: + V_1 Pin 8: - V_1 - Sense V_1 (PSM, PSG) Pin 10: - V_1 Pin 12: + V_2 Pin 14: - V_2 Pin 16: + V_3 Pin 18: - V_3 Pin 20: Save Data Pin 22: Power Fall Pin 24: GND			MTBF at full load, $T_U = 40^\circ\text{C}$			

Schematic wiring diagram

