

- Input voltage lower / equal / higher as output burden voltage
- Extreme input voltage range
- Constant current-output
- Attraction / holding current switch-over
- Output voltage clamping
- No-load / short circuit protected
- Surge proof EN 61000-4-5 level 3/2 Ohm
- EMC EN 55022.B

for Railway / Instrumentation / Industry

Constant-current
coil supply



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Series MSG 01

US Pat. no. 5.991.166
D Pat. no. 195 15 210
Utility patent pending

Main points:

Output:

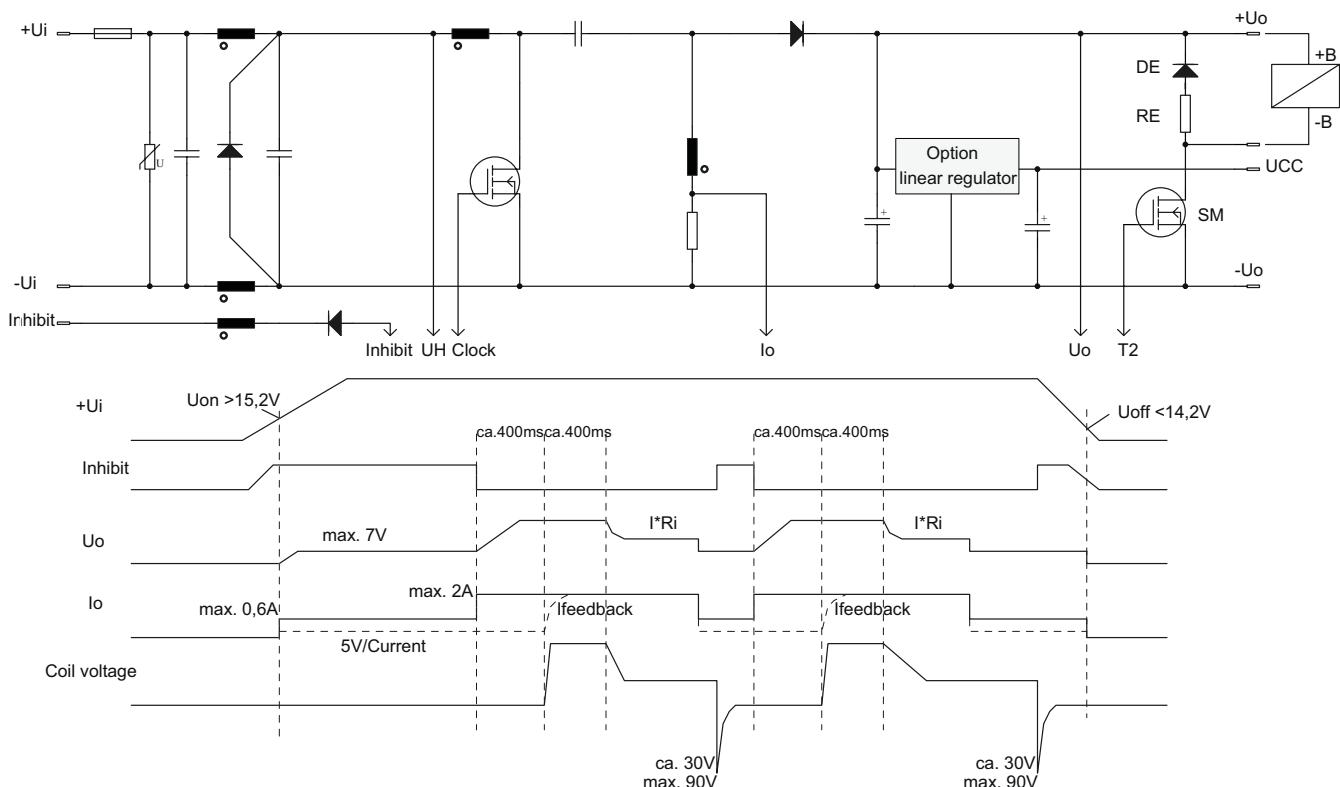
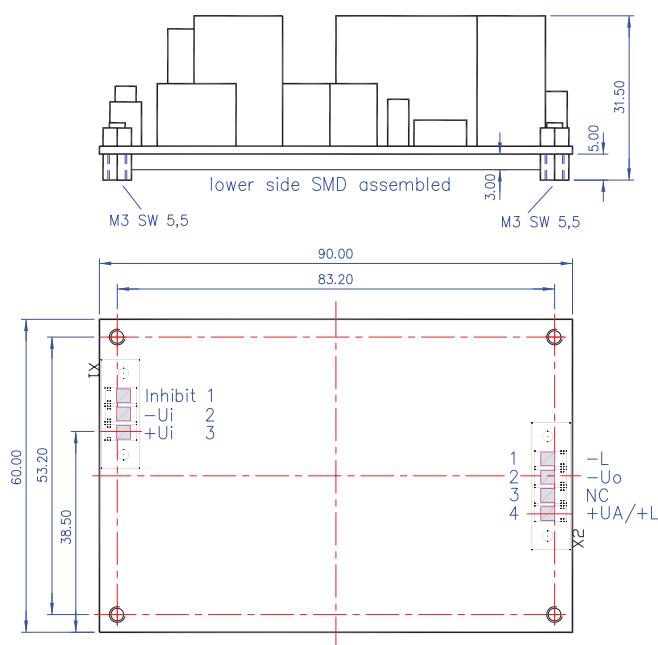
- Constant current with voltage clamping to $1,2 U_{\text{nom}}$
- Programmable load's switch-on
- Attraction- (I_a) and holding current- (I_h) switch over
- Fast passive demagnetisation

	<u>Uin</u> V	<u>Iout / Ih</u> A	<u>Uout</u> V	Model number
	16,8 - 38	2 / 0,6	30	MSG01.24.
	70V/2ms			for 12 Ohm-coils
	50V50ms			
		3 / 0,6	16	MSG01.24.
				for 4 Ohm-coils
Input:	14,4 - 154	2 / 0,5	30	MSG01.03.
	Surge proof level 3 / 2 Ohm			for 12 Ohm-coils
		1 / 0,4	60	MSG01.03.
				for 48 Ohm-coils
	9 - 18	2 / 0,6	30	MSG01.12.
General:	8 - 26 dyn			for 12 Ohm-coils
	Load dump			
		3 / 0,6	16	MSG01.12.
				for 4 Ohm-coils
	9 - 36	2 / 0,6	30	MSG01.20.
	Load dump			for 12 Ohm-coils
		3 / 0,6	16	MSG01.20.
				for 48 Ohm-coils
Other coil-values on request				
(H)		-40°C up to +85°C		
Modification costs for possible changes above values: on request				

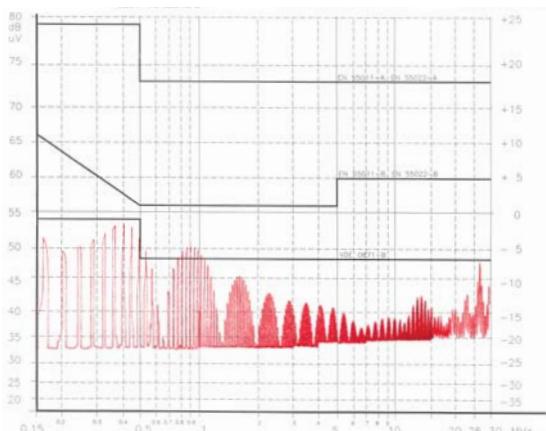
The **MSG 01** series has been developed for the supply of big inductivities (valves / magnet switches). Used is the SYKO-patented and the protection of utility patented Regenerator-topology with constant current feeding against the complex resistance (L/R). The logistic advance of the extreme wide input voltage range, the EN50121/155 railway standard compliance, and the high functionality (Inhibit/short circuit protection, under voltage protection, emergency fuse, surge protection etcetera) lead into the converter's high system suitability.

By connecting the input voltage U_{in} , the coil is activated with the attraction-current and switches over to the holding current after the programmed time.

With $SM = open$ the inductivity is inactive and can de-magnetize fast over the diode DE and the resistor RE . An auxiliary voltage U_{cc} with 3,3V / 20mA is put to the customer's disposal.



Measurement of radio interference



Applications

High voltage / High power switches
High power relays
Magnetic valves