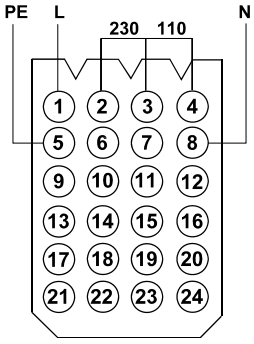
Electrical Pinning
and Notes for Application
MSV-Serie

Type of Unit: MSV196-001
according to HALTEC 54 3160 1002

witchTec order-no.: WT 756 0190 001

Date: 9. Januar 2014



110/230VAC changeover: via jumper
110VAC: Pin 4 + 3 / 230VAC: Pin 2 + 3
(viewed from the connection side, mains input at top)
110VAC - fuse : 6,3AM / 250V~ (internal)
230VAC - fuse : 4,0AM / 250V~ (internal)

RFI according to EN55011, EN55022, Curve “B“ with resistive load on output(s)

Output	Rated Voltage	Rated Current	voltagepin	groundpin	Remarks
No. 1	15 / 30 V	4,0 A	13	9	
No. 2	5,0 V	6,0 A	14	10	
No. 3	12,0 V	1,0 A	15	11	
No. 4	-12,0 V	1,0 A	21	11	
No. 5	12,0 V	1,0 A	22	18	
No. 6	-12,0 V	1,0 A	23	18	
No.	UST		20	16	
No.					
No.					
No.					
Power Fail Signal derived from No.					

CAUTION! HIGH-VOLTAGE! Observe Safety Instructions!

High voltages are generated in this power supply unit and these may still be present for up to 3 minutes after the unit has been switched off. Use only the specified fuses at line input. The nominal voltage **must** be less than 250VAC. Side profiles or cover plates with ventilation slots are not considered as fire-proof cover. Do not operate the unit in an explosive atmosphere or outside application. Do not remove any covers or touch live components. Do not use as stand alone unit.

Please Note: (See also "Application for AC/DC- and DC/DC converters")

- The unit must be externally fused to protect the wiring to the converter simultaneously.
- The primary leads must feature enhanced insulation. Observe safety regulations.
- Always use a green/yellow cable with a sufficiently large cross-section as PE conductor. To connect use a screw which must not have a mechanical fastening function at the same time.
- It may be necessary to use an additional mains filter to comply with EN 55011/55022. The leakage current must not exceed the permissible value in your application.
- Select sufficiently large line cross-section. Keep the leads as short as possible, especially in the case of high currents. At least 1mm²/10A should be used, preferably more.
- Provide separate ground conductors for each output and route them close to the load.
- If necessary connect output voltages via capacitors to ground which should be located near load.
- When external fuse protection is provided attention must be paid to the charging currents of the input capacitors which arise for one half-wave. In any case it is essential to use time-delay fuses. The exact value should be determined by trial and error as experience shows that the fuses supplied by different manufacturers tend to exhibit a wide range of tolerances. In case of doubt the external fuse should be over-dimensioned as the module itself contains further fuses.
- If the output voltage of a switched-mode power supply is checked with an oscilloscope, be sure to use the shortest ground connection to the probe possible because otherwise high noise voltages will be measured which do not exist at the load.

witchTec GmbH & Co. KG • Kuno-Rieke-Straße 2 • 38889 Blankenburg / Harz • Germany • info@witchtec.de