



Zakład Mechaniki i Elektroniki
ZAMEL sp.j.
 J.W. Dzida, K. Łodzińska

ul. Zielona 27, 43-200 Pszczyna, Poland
 Tel. +48 (32) 210 46 65, Fax +48 (32) 210 80 04
 www.zamelcet.com, e-mail: marketing@zamel.pl

zamel

DESCRIPTION

Switching regulators are designed for supplying electronic (electric) devices with DC voltage. They are small, light if compared to voltage transformer regulators of the same output power and have very good load regulation. 12 V and 24 V DC output voltage versions in single-module casings are available.

FEATURES

- ⌚ 12 V and 24 V DC output voltage versions available,
- ⌚ Maximum load current 800 mA (12 V), 400 mA (24 V),
- ⌚ No-load state resistant,
- ⌚ Single-module casing,
- ⌚ Mounted on TH 35 rail.



CAUTION

The device should be connected to a single-phase system according to current standards. The device connections will be described in this manual. Only qualified electricians are allowed to mount, connect and adjust the device. It is necessary to read this manual and know the unit functions before the device mounting. Do not disassembly the device casing or you will lose any warranty rights and expose yourself to the electric shock hazard. Before mounting operation make sure of disconnecting the connection wires from the electric network. Use a cross-head screwdriver of 3.5 mm diameter to mount the device. The relay should be carried, stored and used in an appropriate way. Do not mount the device in case of any device parts lack, damage or deformation. In case of malfunction please notify the manufacturer.

TECHNICAL DATA

ZIM - 12/08

Current range:	0 ÷ 800 mA
Rated current:	800 mA
Rated power:	10 W
Output voltage:	12 V DC
Output ripple and noise voltage(max):	63 mVpp

ZIM - 24/04

Current range:	0 ÷ 400 mA
Rated current:	400 mA
Rated power:	10 W
Output voltage:	24 V DC
Output ripple and noise voltage(max):	150 mVpp

ZIM regulators common parameters

Voltage tolerance:	3 %
Input regulation:	1 %
Load regulation:	1 %
Transient response, rise time:	100 ms, 30 ms
Sustain time:	100 ms
Voltage range:	190 ÷ 260 V~
Frequency range:	50/60 Hz
Efficiency:	79 %
Input current:	0,12 A
Starting current:	Cold start 20 A
Protection class:	II
Overvoltage category:	II
Pollution level:	2
Operating temperature:	-20 ÷ +85 °C
Humidity:	10 ÷ 95 %
Rated ambient temperature:	+40 °C
Breakdown voltage:	3 kV AC
Insulation resistance:	100 MΩ / 500 V DC
EMI - conducted and radiated:	According to PN-EN 55022
Current harmonic:	According to PN-EN 61000-3-2-3
Dimensions:	single-module 90x17,5x66 mm
Weight:	83 g
Standard conformity:	PN-EN 60950:2002, PN-EN 61000-4-2,3,4,5,6,11

NOTE: Minimum distance to the other devices - 10 mm

ASSEMBLY

1. Disconnect the electric network by means of an appropriate cut-off, current-limiting circuit-breaker or separator.
2. Check if there is no any voltage between power leads by means of an appropriate gauge.
3. Mount the **ZIM-XX** regulator on TH 35 rail.
4. Connect the system leads.
5. In case of surface-mounted version screw down a protection guard.
6. Connect power supply circuit.

DESIGNATIONS



The safety transformer short circuit protected (directly or indirectly).



Protection class II.

PRODUCT FAMILY

The ZIM-12/08, ZIM-24/04 switching regulators are members of the ZIM-XX/XX product family:

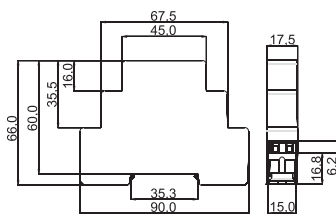
ZIM-xx/xx

Rated output current:
24/04 - 400 mA
24/06 - 600 mA
12/08 - 800 mA
24/12 - 1000 mA
12/12 - 1200 mA
12/25 - 2000 mA

Output voltage:
12 - 12 V DC
24 - 24 V DC

Device type

CASING DIMENSIONS



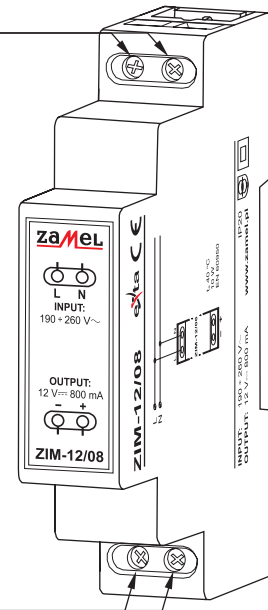
WARRANTY

The product warranty is for a period of 24 months

Dealer signature & stamp, purchase date

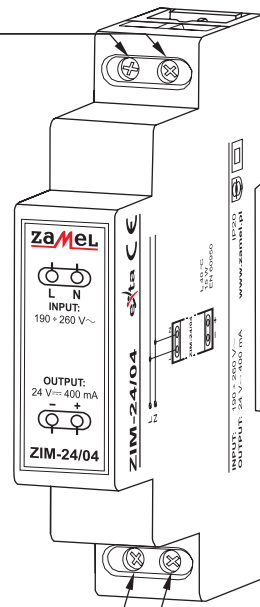
APPERANCE

Power terminals (L, N)



Output terminals (-, +)

Power terminals (L, N)



Output terminals (-, +)



1. ZMIE ZAMEL SP. J. assures 24 months guarantee for the product.
2. The manufacturer's guarantee does not cover any of the following actions:
 - a) mechanical damage during transport, loading / unloading or under other circumstances,
 - b) damage caused by incorrect product mounting or misuse,
 - c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices needed for the product functioning,
 - d) damage caused by Act of God or any other incidents independent of the manufacturer.
3. The PURCHASER shall lay any claims in writing to the dealer or ZMIE ZAMEL SP. J.
4. ZMIE ZAMEL SP. J. is liable for processing any claim according to current Polish legislation.
5. ZMIE ZAMEL SP. J. shall process the claim at its own discretion: product repair, replacement or money return.
6. The manufacturer's guarantee is valid in the Republic of Poland.
7. The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty.