Power Transformer – PT4037

Special Features:

- Two primary voltages compliant: 230 V / 115 V
- Nominal output power: S = 290 VA
- Operating frequency: 50/60 Hz
- Compliance:
  - EN 61558-1:2019
  - PN-EN 60601-1:2011/A1:2014-02 (p. 15.5.2 and 15.5.3)
  - CE
  - RoHS and REACH
- Strengthen insulation and compliant with medical standards
- Integrated thermal protection
- Low profile
- Operating ambient temperature: -25°C to 40°C

Figure 1. General view

Typical Applications:

- Medical devices
- Linear power supplies (where SMPS cannot be used)

For samples or custom solutions please contact directly:
inquiry@sma-magnetics.com

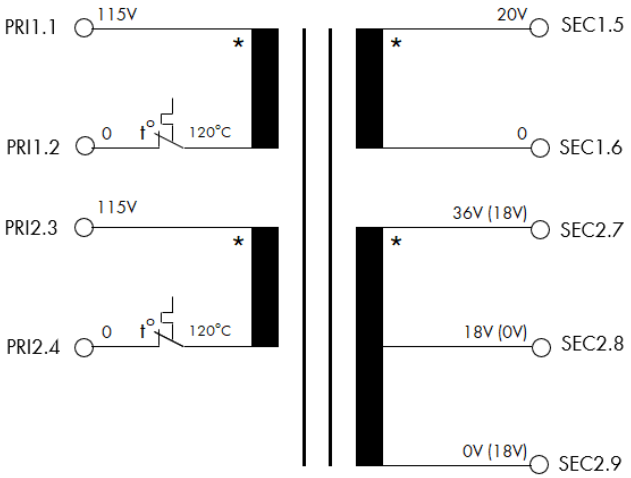

Figure 2. Electrical circuit

Parameter description	Parameter	Comment
Circuits	Connections are provided in **Błąd! Nie można odnaleźć źródła odwołania.**.	
Rated supply voltage	$V_{PRI1} = V_{PRI2} = 115\ V_{RMS}$	
Rated frequency	f = 50..60 Hz	
No load output voltage	$Voc_{SEC1} = 21\ V_{RMS}$ ± 5% (between outlets 5 – 6) $Voc_{SEC2} = 19\ V_{RMS}$ ± 5% (between outlets 7 – 8) $Voc_{SEC3} = 19\ V_{RMS}$ ± 5% (between outlets 8 – 9)	Routine test
Rated output current	$I_{SEC1} = 1.5\ A_{RMS}$ $I_{SEC2} = 7.3\ A_{RMS}$ $I_{SEC3} = 7.3\ A_{RMS}$	
Total rated output power	S = 290 VA	
Pimary winding resistance	$R_{PRI1} \leq 4\ \Omega$ $R_{PRI2} \leq 4.2\ \Omega$	Routine test given values are valid for 20°C (resistance temperature coefficient: 0.00393 1/K)
Secondary winding resistance	$R_{SEC1} \leq 2.1\ \Omega$ $R_{SEC2} \leq 47\ m\Omega$ $R_{SEC3} \leq 53\ m\Omega$	Routine test given values are valid for 20°C (resistance temperature coefficient: 0.00393 1/K)
Magnetizing current at primary	$\leq 45\ mA_{RMS}$	Routine test @ 230V, 50Hz series connection PRI1 & PRI2
Ambient temperature range	t_a = -25°C to +40°C	
Insulation class	B (130°C)	
Overheat Protector	Thermal cuttoff 120°C, Normally Closed (NC)	PRI1, PRI2
Typical mass	2.4 kg	

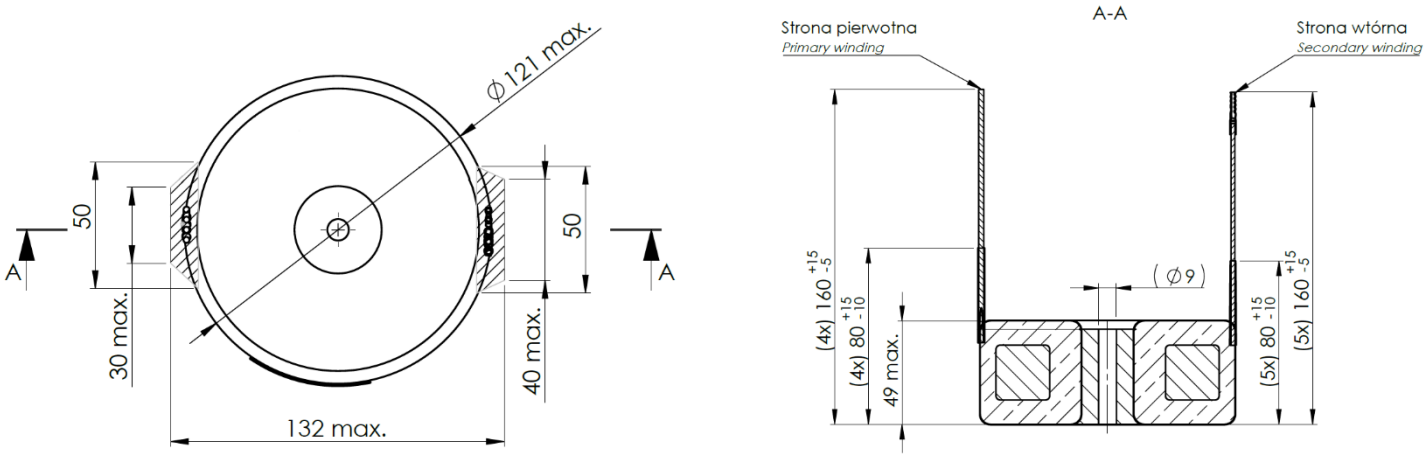

Figure 3. Transformer dimensions in mm