

Isolation Power Transformer – 3800PT2325

Special Features:

- Primary voltage: 400 V
- Secondary voltage: 400 V
- Nominal output power: $S = 3800 \text{ VA}$
- Operating frequency: 50/60 Hz
- Compliance:
 - EN 61558-1:2019
 - RoHS and REACH
- Strengthen insulation and compliant with medical standard
- Operating ambient temperature: -25°C to 40°C
- Voltage range can be adjusted to customer requirements



Figure 1. General view

Typical Applications:

- Railway tracks heating systems
- Voltage system integration (US / MoW)

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

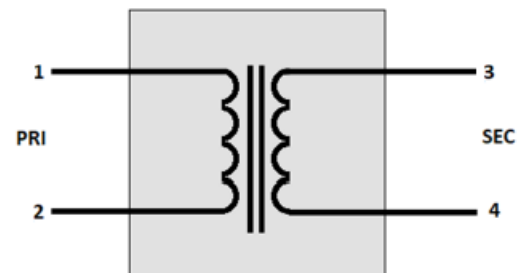
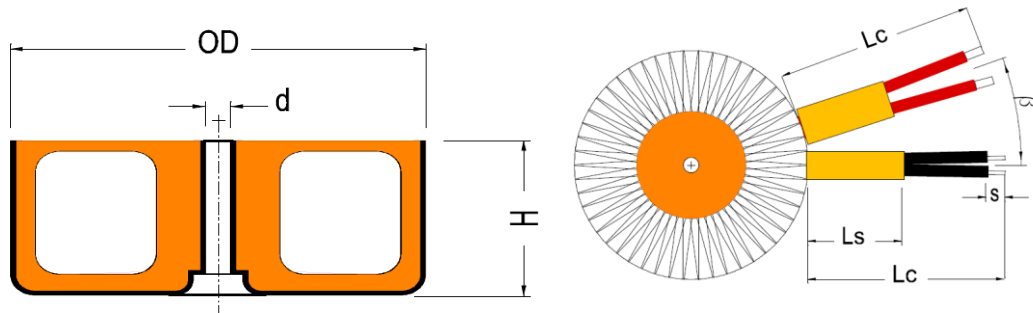


Figure 2. Electrical circuit



Parameter description	Parameter	Comment
Circuits	Circuit terminals are shown in Figure 2.	
Nominal primary voltage	$U_{1-2} = 400 V_{RMS}$	
Nominal frequency	$f = 50 \text{ Hz}$	
Nominal secondary voltage	$U_{3-4} = 230 V_{RMS} \pm 5\%$	
No-load voltage	$U_{3-4} = 232 V_{RMS} \pm 2\%$	
Nominal secondary current	$I_{3-4} = 17.5 A_{RMS}$	
Nominal power	$S = 3800 \text{ VA}$	
Primary winding resistance	$R_{1-2} < 320 \text{ m}\Omega$	
Secondary winding resistance	$R_{3-4} < 150 \text{ m}\Omega$	$T = 20^\circ\text{C}$
Magnetizing current	$I_{1-2} < 85 \text{ mA}_{RMS}$	@ 400V, 50Hz na PRI winding
No-load losses	$P_{loss} < 25 \text{ W}$	@ 400V, 50Hz na PRI winding
Rated ambient temperature	$t_a = -25^\circ\text{C to } +40^\circ\text{C}$	
Insulation class	B (130°C)	
Dielectric strength	PRI do SEC1, SEC2 – 4 kV _{AC} (50 Hz) @ 1 sek.	
Total weight	$m = 27.5 \text{ kg}$	



	Dimension	Tolerance
OD	288 mm	+/- 5 mm
H	115 mm	+/- 5mm
d	9,5 mm	+/- 0,1 mm
Lc	600 mm	+/- 20 mm
Ls	100 mm	+/- 20 mm
s	10 mm	+/- 5 mm
β	<20°	n/a

Figure 3. Transformer dimensions in mm