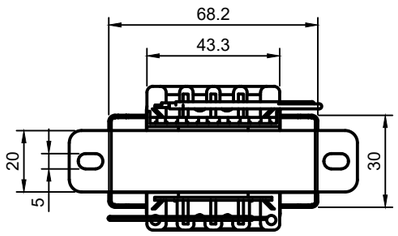
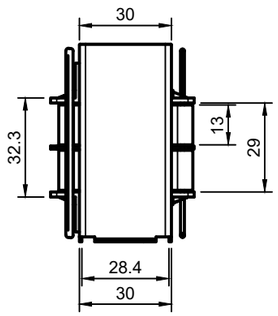
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DIMENSSIONS & PROJECTION

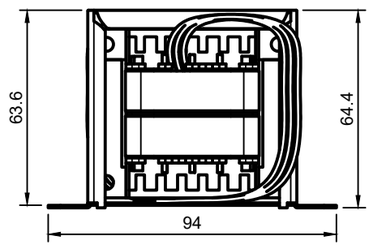
Bottom View



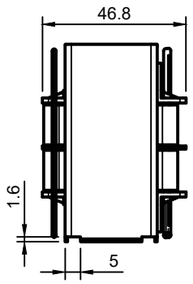
Right View



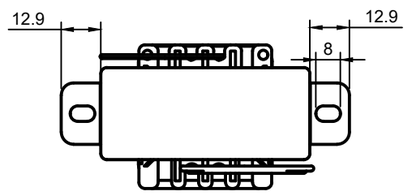
Front View



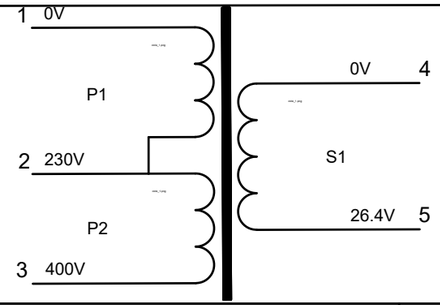
Left View



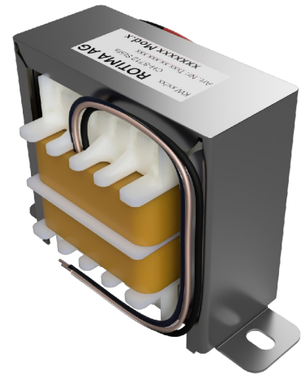
Top View



SCHEMATIC



DESCRIPTION



This single-phase control transformer from Rotima AG is designed for reliable mains-frequency voltage conversion and the supply of low-voltage control circuits in industrial and building-automation applications.

The laminated EI core provides a robust magnetic design for continuous 50/60 Hz operation and is well suited for reliable power conversion in industrial control equipment.

With selectable 230 V or 400 V AC input, a 24 V AC output, a rated power of 63 VA and a secondary current of 2.63 A, the component is suitable for industrial control systems, contactors, relays, solenoids, PLCs, HVAC and building automation, test equipment and auxiliary power supplies.

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Value	Unit	Tolerance
Core type	-	EI66-Core, 0.5 mm		Silicone steel
Winding	$P_1/P_2/S_1$	1842/1361/204 turns		
Magnetising inductance (230V/400V)	L_m	14/42 ±20%	H	typ.
Magnetising current (230V/400V)	I_m	28.05/16.14	mA	max.
Open circuit voltage	V_o	25 - 27	V	typ.
Rated power	P_r	63	VA	typ.
Rated primary voltage	V_p	230/400	V	typ.
Rated secondary current	I_{rs}	2.63	A	typ.
Rated secondary voltage	V_s	24	V	typ.
Short-circuit current	I_{sc}	30	A	max.
DC resistance (primary)	R_{DC}	26.45	Ω	max.
Total loss (maximum)		11	W	max.
Rated temperature	T_r	+60	°C	typ.
Operating temperature range	T	–40 … +125	°C	typ.
Efficiency	η	86	%	typ.

TEST RESULTS

Parameter	Symbol	Test Conditions	Value	Unit	Tolerance
Inductance (P)	L	100 Hz, 250 mV		H	typ.
Open-circuit voltage (S_1)	V_o		27.65	V	typ.
DC resistance (P_1&P_2)	R_{DC}		390	Ω	typ.
Dielectric strength (P_1&P_2 - S_1)	-	3.5 kV AC, 60s	<0.2	mA	typ.
Insulation resistance (S_1 - Core)	-	0.5 kV DC, 60s	60	GΩ	typ.

AREAS OF APPLICATION

- Industrial control systems (contactors, relays, solenoid, actuators, PLC, etc)
- HVAC and building automation (24 VAC control circuits, thermostats, dampers, etc)
- Test & laboratory equipment, including machnie tool safety circuits
- Lighting systems and power supplies
- Building automation and access control power supply

Standard	Cust. drawing no		
0.1	First release	24.09.2026	OAK
Rev.	Revision note	Date of issue	Name

Prepared	03.09.2026	Oyebola Akinboyewa
Approved	24.09.2026	Lukas Schmieden
Part No.	T400.10.001.002	

Title	EI66 Transformer 0-230-400V /24V, 50/60Hz 63 VA
Dept.	Engineering

ROTIMA ALWAYS ON

Customer ref No.	
Rev ID	
Language	EN
DWG No.	KM-TREI660001
Scale	1:2
Sheet	1/2

First angle projection

PRECAUTIONS AND WARNINGS

General:

- This electronic component has been designed and manufactured for use in general electronic equipment.
- The component has been designed and manufactured for use within the values specified in the data sheet. Failure to comply with the application and operating conditions specified in the data sheet may result in damage to or dissolution of the wire insulation.
- Do not drop the components or subject them to impact, as this may damage them.
- Rotima AG products are qualified in accordance with international standards, which are listed in each product reliability report. Rotima AG does not guarantee the validity and sustainability of product features that exceed Rotima's specifications.

Storage conditions:

- Storing Rotima AG products for more than 12 months is not recommended. Among other things, this can lead to deterioration of the connections, resulting in poor solderability. Therefore, all products should be used within 12 months of the date of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined in accordance with DIN EN 61760-2.
- The storage conditions specified in the original packaging apply to the storage period and not to the transport time of the components.

Rev.	Revision note	Date of issue	Name
0.1	First release	24.09.2026	OAK

Standard | Cust. drawing no

Prepared 03.09.2026 Oyebola Akinboyewa

Approved 24.09.2026 Lukas Schmieden

Part No. T400.10.001.002

Title: EI66 Transformer 0-230-400V /24V, 50/60Hz 63 VA

Dept.: Engineering

ROTIMA ALWAYS ON

DWG No.: KM-TREI660001

First angle projection

Customer ref No.

Rev ID

Language EN

Scale

Sheet 2/2

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