VARIABLE MAINS TRANSFORMERS
transformer size code C4

QUICK REFERENCE DATA					
input voltage (V)	**output current (A)**	output voltage (V)	catalogue number 2422 530		
			bench model	panel model	lab. model
220	**10**	0 to 220		15406	
220/260	**8,5**	0 to 260	05401	05406	05405
240/270	**8,5**	0 to 270	05501	05506	

To be read in conjunction with "Operational notes Variable mains transformers".

APPLICATION

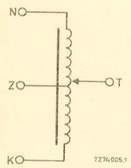
These panel mounting, bench model and laboratory model transformers are designed for use in laboratories and in industrial and professional equipment.

DESCRIPTION

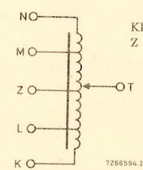
These transformers have a single layer of copper wire wound on an annular core.
This part is vacuum-impregnated and mounted in a diecast aluminium frame.
The construction permits an adjustment down to exactly 0 V.
The fixed-length spindle protrudes at both sides: the amount of protrusion is adjustable.
The spindle can be easily replaced by one of another length.
Screw terminals are provided for connecting the leads.
The bench models can also be used for panel mounting.
The laboratory model is a **bench model** provided with a cable with plug, a **fuse**, a **socket**, and a **handle**. See also drawing page S3.

ELECTRICAL DATA

Circuit diagram

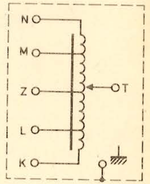


panel model
2522 530 15406
only



KL = NM
Z = centre-tap

panel model



bench model **

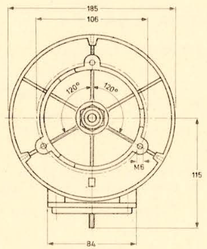
		2422 530		
		15406	05401 05406	05501 05506
Input voltage L to N *			220 V + 10%	240 V + 10%
K to N		220 V + 10%	260 V + 10%	270 V + 10%
Output voltage T to N	1)	0 to ≥220V	0 to ≥260 V	0 to ≥270 V
Nominal output current		10 A	8,5 A	8,5 A
Maximum output current	2)	12 A	11,2 A	11,2 A
Voltage per turn of winding		0,81 V	0,81 V	0,85 V
Voltage drop at nominal output current	3)	≤4 V	≤6 V	≤ 6 V
Losses, no load		≤ 16 W	≤ 16 W	≤ 17,5 W
Permissible temperature rise at any point	4)	max. 90 °C		

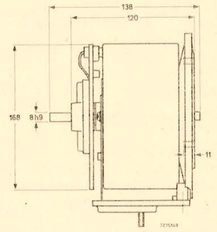
* Second letter denotes the common input/output terminal.
** Circuit diagram laboratory model see page S3.

1) The output voltage is stated for clockwise rotation when the transformer is mounted behind a panel.
2) See "Operational notes" paragraph "Continuous overload".
3) See "Operational notes" paragraph "Voltage drop".
4) See "Operational notes" paragraph "Derating for higher ambient temperatures".

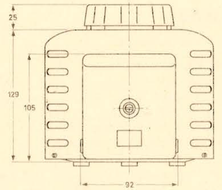
MECHANICAL DATA

Dimensions in mm

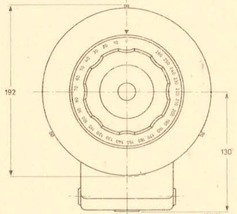




panel model



For laboratory model see page S3.



The pads protrude approximately 5 mm.

bench model

Degree of protection (IEC144)	
bench model	IP20
panel model	IP00
Mass	
panel model	≈ 8,8 kg
bench model	≈ 9,6 kg
laboratory model	≈ 9,85 kg
Operating torque	0,2 to 0,3 Nm
Permissible end stop torque	max. 4 Nm

Mounting

The transformer can be fitted to a panel or chassis by means of 3 screws M6 (maximum length = panel thickness + 11 mm). The pads of the bench models have to be removed before mounting.

Carbon brushes

Spare carbon brushes can be supplied under catalogue number 4322 027 75160 (service number 5322 362 40044).

ACCESSORIES

Available accessories:

Control knobs.	
Ganging units.	
Motor drive module.	See Handbook section "Accessories".
A.C. stabilizer module.	Use transformer size code C4 at selecting
Chokes for parallel connection.	accessories.
Further information on request.	