



TCB $\leq \begin{matrix} 50 \\ 70 \\ 100 \end{matrix}$

low frequency current transformers

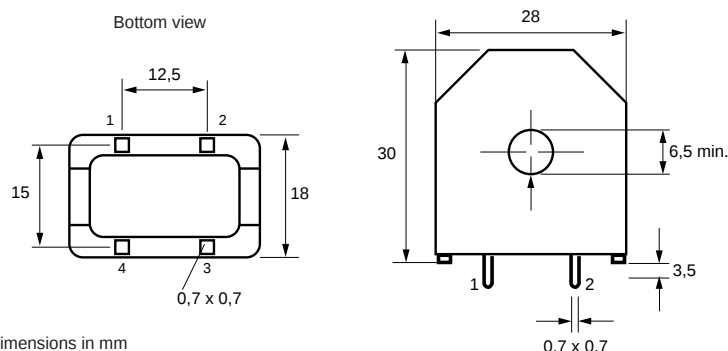


TCB transformers are designed for AC current measurement for frequencies from 50 Hz to 400 Hz.

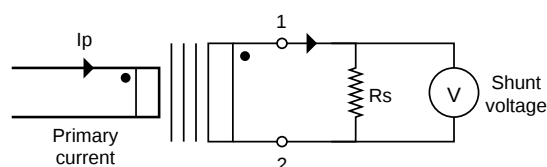
They are used for measurement or current limitation for electrical appliances powered by main supply 50/60 Hz or low frequency transformers like motors, heaters...

Measurement is done using a lead going through the center of the transformer. No temperature rise, no disturbance can be noted.

DIMENSIONS



TYPICAL APPLICATION



SPECIFICATIONS

MECHANICAL

CASE... UL 94 VO
UNIT WEIGHT... 21 g

CLIMATIC

TEMPERATURE RANGE
SHELF... -55°C +85°C
WORKING... -30°C +75°C

ELECTRICAL

FREQUENCY RANGE... 50 Hz / 400 Hz
INSULATION... 2 kV RMS, 4 kV RMS on request

MARKING

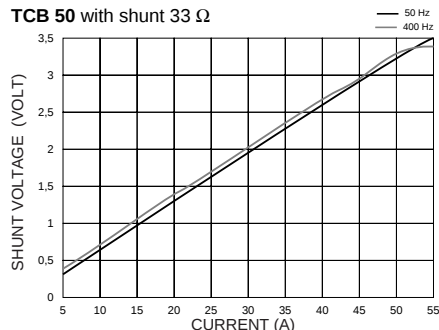
Printed in clear: series, model, manufacturer, manufacturing date (code). Arrow showing reference for phase matching with winding 1-2.

	TCB 50		TCB 70		TCB 100	
Ratio	1: 500		1: 700		1: 1000	
Shunt resistance to add RS (Ω) to the circuit	33	150	50	200	50	200
Primary current max. (A)	50	12	70	16	100	25
Ratio $\frac{\text{Shunt voltage (V)}}{\text{Primary current (A)}}$	0,07	0,30	0,071	0,286	0,05	0,2
Winding resistance 1 - 2 (Ω)	18,5		33		75	

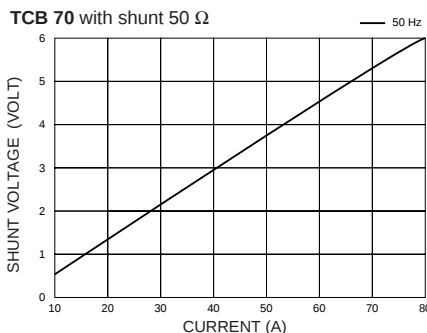
PACKING

50 pieces in a sectioned box.

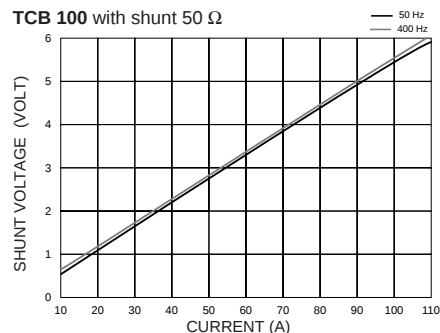
TCB 50 with shunt 33 Ω



TCB 70 with shunt 50 Ω



TCB 100 with shunt 50 Ω



ORDERING PROCEDURE

SERIES

TCB

MODEL

50



VISHAY S.A.
Division Aztronic
Z.I. de Bellitourne
B.P. 353

F 53203 Château-Gontier Cedex
Tel. : (33) 02 43 09 51 10
Fax. : (33) 02 43 07 36 43