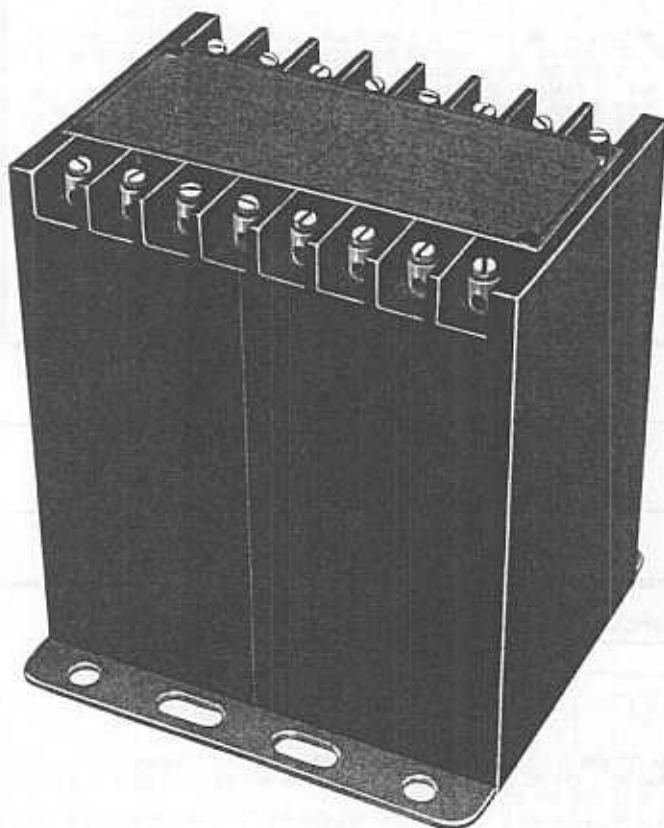


January 1990
Supersedes Product Bulletin 42-852,
pages 1-4, dated October 1989
Mailed to: E, D, C/42-800A

Indoor, Control Circuit Voltage: 600 Volts
Test Voltage: 2500 Volts
25 through 60 Hertz

Type A Current Balancing Autotransformer



Application

These transformers adjust for the difference in ratio between current transformers on the high and low sides of power transformer banks, thus affecting an exact ratio balance between the two currents of the differential system. They are for use in current transformer secondary circuits not exceeding 600 volts.

Construction Features

Terminals

Transformer coil leads are brought out to solderless connectors which are located in shielded recesses on top of the transformer.

Core and Coils

The core and coil assembly is completely enclosed in polyurethane resin.

Mounting Base

The mounting base of the aluminum case has drilled holes for flat surface mounting and slotted feet for pipe frame mounting using U-bolts.

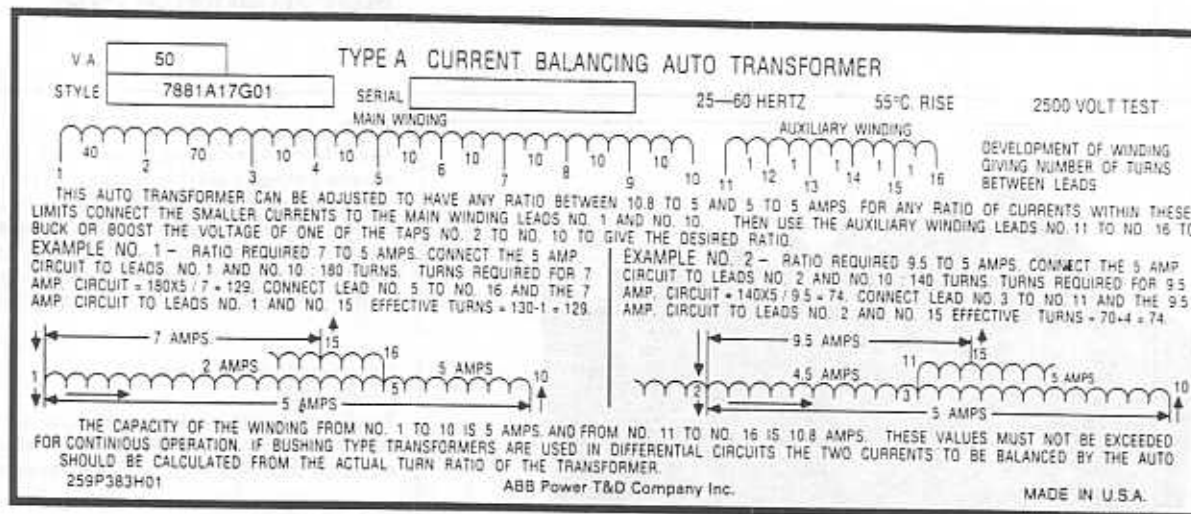
Selector Guide

Volt Ampere Rating	Style Numbers
50	7881A17G01 (Replaces 7881A16G01)
100	7881A17G02 (Replaces 7881A16G02)

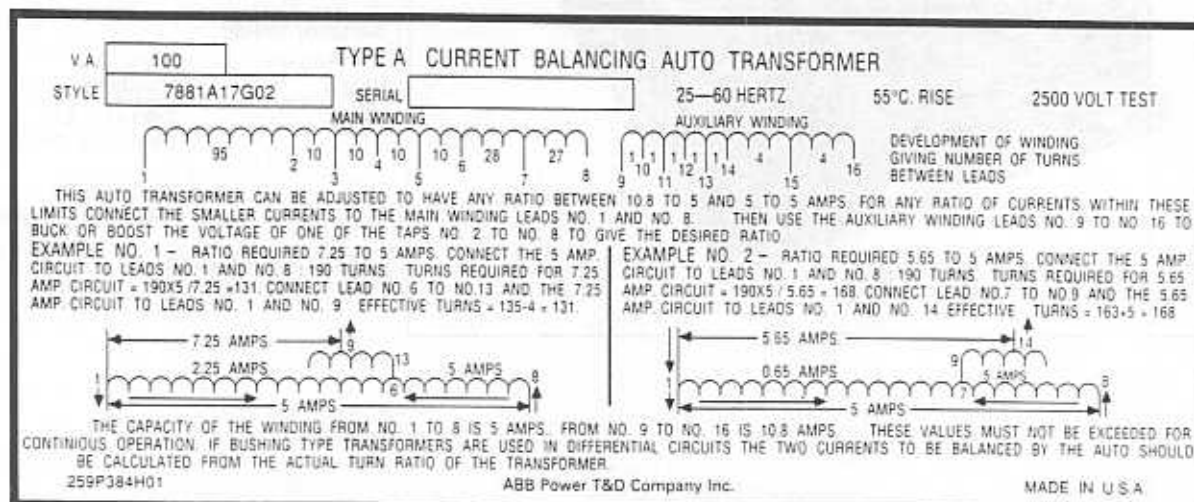
Further Information

Prices: Price List 42-800

Nameplates
Style Number 7881A16G01, 50 VA



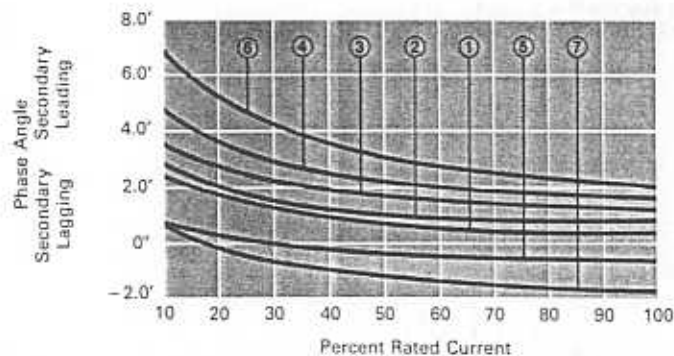
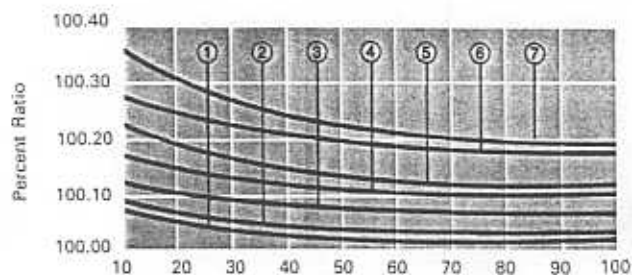
Style Number 7881A16G02, 100 VA



Performance Curves

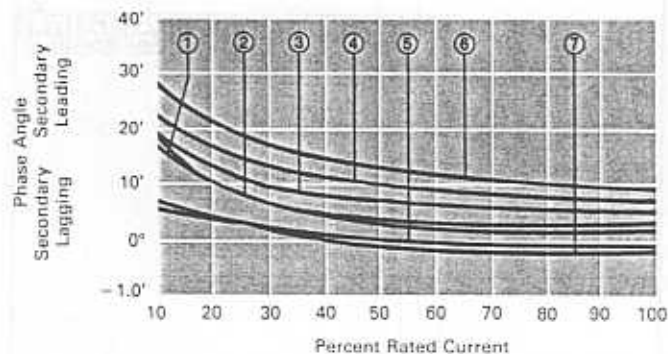
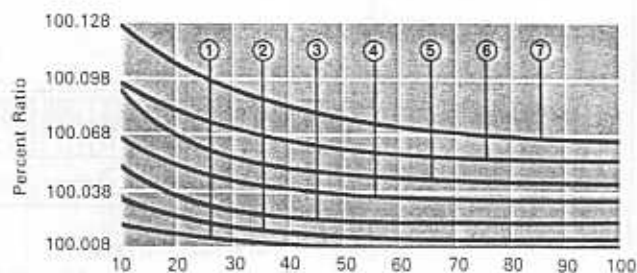
Curve No. 1	Burden	0.1 Ohms	90% P.F.	2.5 VA	60 Hertz	Curve No. 1	Burden	0.1 Ohms	90% P.F.	2.5 VA	60 Hertz
Curve No. 2	Burden	0.2 Ohms	90% P.F.	5.0 VA	60 Hertz	Curve No. 2	Burden	0.2 Ohms	90% P.F.	5.0 VA	60 Hertz
Curve No. 3	Burden	0.5 Ohms	90% P.F.	12.5 VA	60 Hertz	Curve No. 3	Burden	0.5 Ohms	90% P.F.	12.5 VA	60 Hertz
Curve No. 4	Burden	0.9 Ohms	90% P.F.	22.5 VA	60 Hertz	Curve No. 4	Burden	0.9 Ohms	90% P.F.	22.5 VA	60 Hertz
Curve No. 5	Burden	1.0 Ohms	50% P.F.	25.0 VA	60 Hertz	Curve No. 5	Burden	1.0 Ohms	50% P.F.	25.0 VA	60 Hertz
Curve No. 6	Burden	1.8 Ohms	90% P.F.	45.0 VA	60 Hertz	Curve No. 6	Burden	1.8 Ohms	90% P.F.	45.0 VA	60 Hertz
Curve No. 7	Burden	2.0 Ohms	50% P.F.	50.0 VA	60 Hertz	Curve No. 7	Burden	2.0 Ohms	50% P.F.	50.0 VA	60 Hertz

50 VA Rating, Ratio 10:5 Amperes Ratio and Phase Angle Curves



Testing Errors Less than 0.1% Ratio: 3° Phase Angle

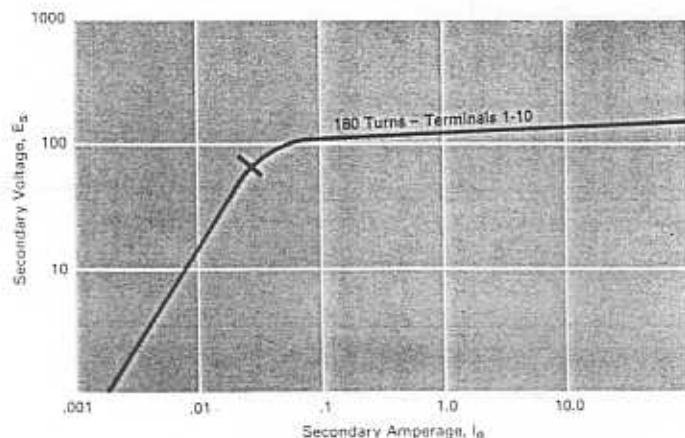
100 VA Rating, Ratio 10:5 Amperes Ratio and Phase Angle Curves



Testing Errors Less Than 0.1% Ratio: 3° Phase Angle

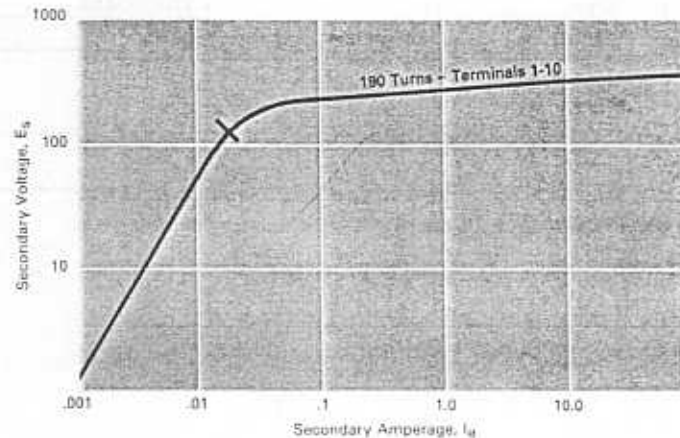
Overcurrent Ratio Curves

Secondary Excitation Characteristics
Type: Current Balancing Auto



Overcurrent Ratio Curves

Secondary Excitation Characteristics
Type: Current Balancing Auto



Dimensions (In Inches) and Weights

This outline can be used for erection or mounting purposes. It is not to be regarded as indicating the exact details of construction.

