

Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

T-2-1

OTTAWA January 27, 1970

CANADIAN GENERAL ELECTRIC TYPES "KG-25", "KG-34.5", "KG-46", "KG-69", "KG-92",
"KG-115", "KG-138", "KG-161" and "KG-230" CURRENT TRANSFORMERS

Group 1

Transformers with Single or Series/Parallel Primaries
and Single Untapped Secondary Windings

Primary Currents	10, 20, 25, 40, 50, 75, 100, 150, 200, 300, 400, 600, 800, 1000, 1200, 1500, 2000 and 3000 amperes
Secondary Current	5 amperes
Accuracy Rating at 60 hz	0.3B0.1, B0.2, B0.5, B0.9, B1.0, B1.8, B2.0*
Voltage Rating	25 kv to 700 kv as appearing in the type designation in kv
R. F. (rating factor)	1.33
Frequency	60 hz
Number of Secondaries	1
Ratios Available	Any two in the order 2:1, eg. 800x400-5
Secondary Terminals	X1 - X2, X1 has the same polarity as H1
Wire	2, single phase
Style	Outdoor, post type, oil filled

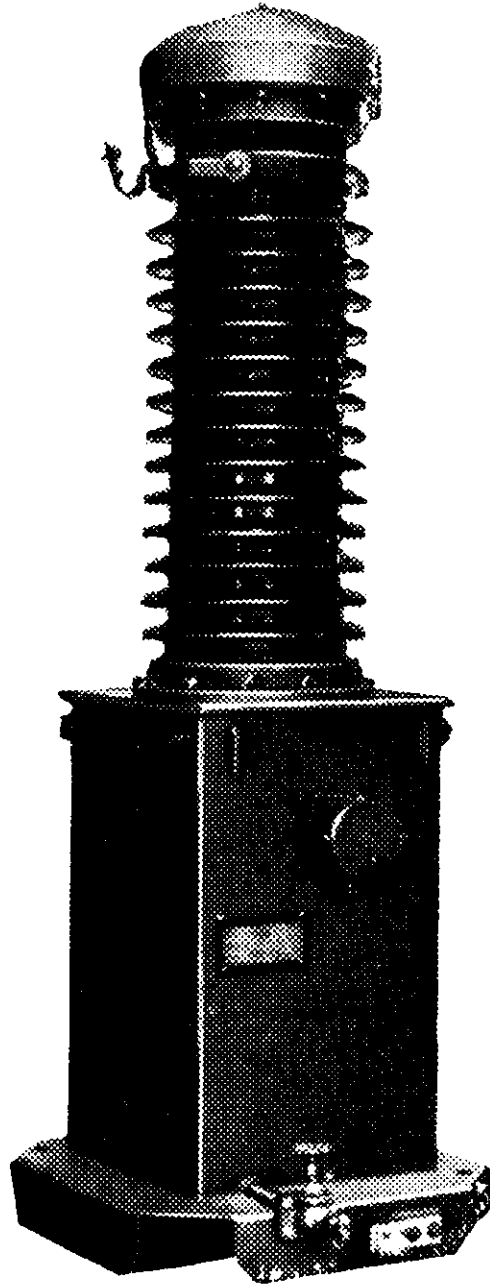
* The nameplates are marked 0.3B2.0

Group 2

Transformers with Single or Series/Parallel Primaries and
Multiple Tapped or Untapped Secondary Windings

Primary Currents	10, 20, 25, 40, 50, 75, 100, 150, 200, 300, 400, 600, 800, 1000, 1200, 1500, 2000, and 3000 amperes
Secondary Current	5 amperes, each secondary
Number of Secondaries	2 or 3

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"KG-115", "KG-138", "KG-161" and "KG-230" CURRENT TRANSFORMERS



TYPE KG-11

OIL-FILLED

Accuracy Rating at 60 hz untapped secondaries and tapped secondaries with proportions less than 3:1	0.3B0.1, B0.2, B0.5, B0.9, B1.0, B1.8, B2.0 *
# Tapped secondaries with proportions between 3:1 and 6:1	0.6B0.1, B0.2, B0.5, B0.9, B1.0, B1.8, B2.0 *
# Greatest approved proportion	6:1
Voltage Rating	25 kv to 700 kv as appearing in the type designation in kv
R. F. (rating factor)	1.33
Frequency	60 hz#
Secondary Terminals	X1, X2, X3, X4; Y1, Y2, Y3, Y4 or Z1, Z2, Z3, Z4 #
Polarity and Common Terminals	X1, Y1 or Z1
Wire	2, Single Phase
Style	Outdoor, post type, oil filled

* Marked on the nameplate

Proportions between 3:1 and 6:1 on transformers with tapped secondaries using terminals X1-X2, Y1-Y2 or Z1-Z2 may only be used with the series connection of the primary windings.

The proportion given here refers to the relation between the maximum rated primary current and the lower rated current when using a tap on the secondary winding. e.g., on a transformer rated at 1200x800x600x400x200-5-5 amperes, the 800-5 amp would have a proportion of 3:2, the 400-5 amp would be 3:1 and the 200-5 amp would be 6:1.

Description

The type "KG--" current transformers are designed for outdoor service with a large porcelain insulator mounted on a steel tank. The size of the porcelain insulator is related to the voltage rating.

The primary winding may be in two sections which can be connected in series or in parallel by means of links at the top of the porcelain.

High grade grain-oriented silicon steel is used for the cores of all ratings.

Transformers may be built with a single untapped secondary winding, or they may have 2 or 3 tapped or untapped secondary windings.

In the former case, two ratios of the order 2:1 are available depending on the primary connections.

In the latter case, in addition to ratios available by reconnecting the primaries, additional ratios are made available by taps on the secondary windings.

The maximum number of taps covered by this approval is two (2) so that only secondary terminals X1, X2, X3, X4; Y1, Y2, Y3, Y4; or Z1, Z2, Z3, Z4 will be available.

In all cases, the nameplate will indicate the primary connections and the secondary terminals to be used to obtain the desired ratio.

As each secondary of a multiple secondary transformer is completely independent, any unused secondary winding should be short-circuited over the whole winding. To prevent damage to the transformer due to its omission, this approval covers the use of Thyrite protectors across each secondary winding.

This circular is a reissue of circular T-2 to include transformers having multiple tapped secondary windings.

Approval granted to:

Canadian General Electric Company Limited,
Toronto 4,
Ontario.



for
Chief, Standards Laboratory
Standards Branch.



W. J. S. Fraser,
Chief, Electricity and Gas Division,
Standards Branch.

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