



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



STANDARDS BRANCH - DIRECTION DES NORMES

# NOTICE OF APPROVAL

T-20-1

OTTAWA November 18, 1971.

## I-T-E CIRCUIT BREAKER (CANADA) LIMITED TYPES "K", "3K", "4K" AND "5K" CURRENT TRANSFORMERS

Primary Currents  
"K", "3K" & "4K"

400, 500, 600, 800, 1000, 1200, 1500, 1600,  
1800, 2000 amperes  
#800/400, 1000/500, 1500/1000, 1600/800 and  
2000/1000 amperes

"5K"

1200, 1500, 1600, 1800, 2000, 2500, 3000, 3200  
3500, 4000; 1500/750, 1800/1600, 2000/1000  
3000/1500, 4000/2000, 3000/2000 and 4000/3000 amperes  
5 amperes, all types

Secondary Current  
Accuracy Ratings at 60hz

Type K

400, 500 & 600 amperes 0.6B0.1, B0.2\*  
800 & 1000 amperes 0.3B0.1, B0.2, B0.5\*; 0.6B0.9, B1.0, B1.8  
1200 to 2000 amperes  
incl. 0.3B0.1, B0.2, B0.5\*, B0.9, B1.0, B1.8; 0.6B2.0

Types 3K and 4K

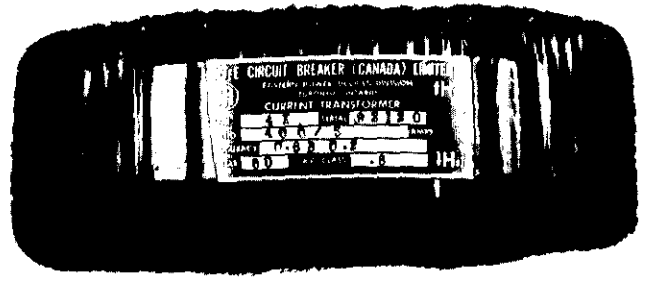
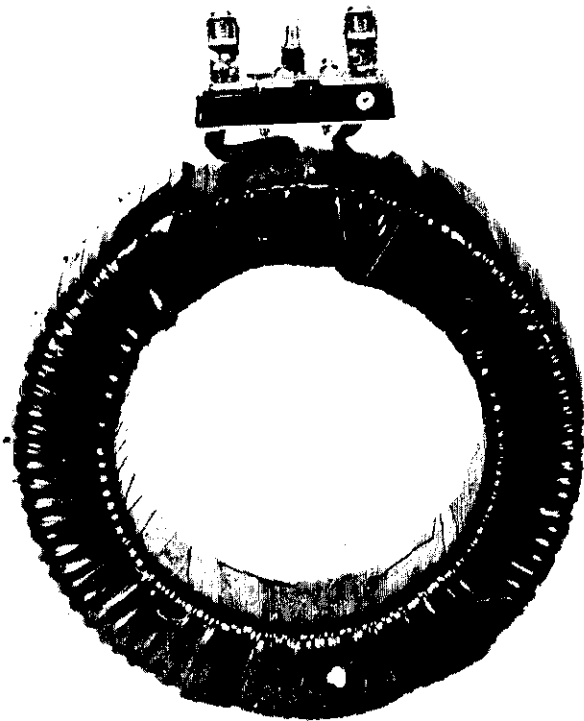
400, 500 & 600 amperes 0.3B0.1, B0.2; 0.6B0.5\*  
800 & 1000 amperes 0.3B0.1, B0.2, B0.5, B0.9\*, B1.0; 0.6B1.8, B2.0  
1200 to 2000 amperes  
incl. 0.3B0.1, B0.2, B0.5, B0.9\*, B1.0, B1.8, B2.0

Type 5K

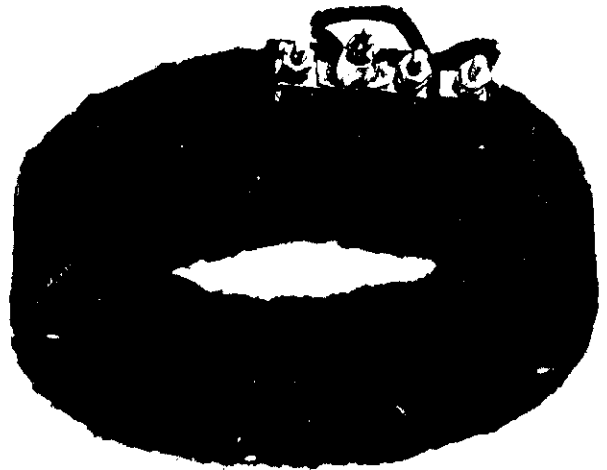
750 amperes 0.3B0.1, B0.2; 0.6B0.5\*  
1000 amperes 0.3B0.1, B0.2, B0.5\*; 0.6B0.9, B1.0, B1.8  
1200 & 1500 amperes 0.3B0.1, B0.2, B0.5, B0.9\*, B1.0, B1.8; 0.6B2.0  
1600 to 4000 amperes  
incl. 0.3B0.1, B0.2, B0.5, B0.9\*, B1.0, B1.8, B2.0

# Double and dual ratio transformers not available in type "K".

Frequency 60 hz  
R.F. (rating factor) 1.0  
Wire 2  
Style Indoor, bushing type



5 K



\* Accuracy rating marked on the nameplate.

The accuracy ratings given above for the types "3K", "4K" and "5K" apply to the particular current whether the transformer is single-ratio, double-ratio or dual-ratio.

If a transformer is dual-ratio or double-ratio, e.g. 1500/750-5 amperes and each ratio has a different accuracy rating, both accuracy ratings will appear on the nameplate. If both ratios of a dual-ratio or double-ratio current transformer have the same accuracy rating, only one will be marked, e.g. 3000/2000-5 amperes, accuracy rating 0.3B0.9.

#### Description

These transformers are bushing type for mounting on a bus bar of switchboards or on the bushings of power transformers.

Types "K" and "3K" will mount on  $\frac{1}{4}$ " x 3" bus bar, the type "4K" will mount on  $\frac{1}{4}$ " x 4" bus bar and the type "5K" will mount on  $\frac{1}{4}$ " x 5" bus bar.

The type "3K" supersedes the type "K" which latter received approval under S-EA.501 and which is no longer manufactured.

The type "5K" is a new design with a larger window and higher current capacities and is available in single, double and dual-ratios.

The insulation is plastic tape which serves to hold the terminal block and nameplate in addition to providing insulation and protection for the secondary winding.

Primary polarity is indicated by a white dot painted on the primary entrance side and by arrows marked "H1" and "H2" on the nameplate.

Secondary polarity is indicated by a white dot adjacent to the terminal "X1".

On dual or double-ratio transformers of the type "5K" the low ratio is available from secondary terminals "X1-X2" and the high ratio from terminals "X1-X3". This will be marked on the nameplate.

The type "K" has a spring-tensioned short-circuiting device and the types "3K", "4K" and "5K" have a screw driver operated link.

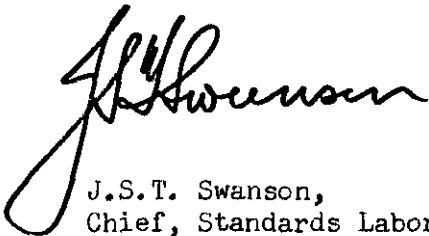
Metal clamps are available for fastening the transformers to the bus bar running through them.

The illustrations on page 2 of this circular show that when facing the primary entrance side, the secondary terminal "X1" is on the left for the types "K" and "5K" and on the right for types "3K" and "4K". The type "K" is illustrated on page 3 of T-20.


This is a re-issue of circular T-20 to cover the addition of the type "5K".

Approval granted to:

I-T-E- Circuit Breaker (Canada) Ltd.,  
Eastern Power Devices Division,  
Port Credit, Ontario.



J.S.T. Swanson,  
Chief, Standards Laboratory,  
Standards Branch.



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

Ref: SL-100-893 (D)  
SE-85-9