





Declaration of Insulation Transformer No.	AA-98022
Customer:	ELFA AB
Customer Part No:	56-132-78

This transformer is CSA- and UL-Recognized, File No. E115159, according to following standards:

## UL1950 & CAN/CSA C22.2 No. 950-95

Standard for safety for Information Technology Equipment, including Electrical Business Equipment.

The construction of this transformer also fulfill the requirements according to IEC 601.1, EN 61558-1, EN 60 950, EN 60 065, UL 2601.1, UL 6500, UL 1411.

#### Core.

The core is tapewound with cold-rolled grainoriented silicon steel. Core Dimensions: 50x30x20 mm

#### **Core Protection.**

The core is insulated with min. four layers of 0,05mm thick Polyesterfilm. UL-Approved under Guide QMFZ2. Flame Class UL 94VTM-2. Approved for 130°C.

#### Copper Wire.

Polyesterimid enamelled copper wire, according to IEC 317-13. Approved for min. 180°C.

## Primary Termination.

Stranded wire:Awg 20UL-Approved under Guide AVLV2, Style 3266. Approved for 300V and 125°C.Plus an extra insulation tube. UL-Approved under Guide YDPU2. Approved for 105°C.

#### Secondary Termination.

The wire ends are insulated with insulation tubes. UL-Approved under Guide YDPU2. Approved for 300V and 105°C.

### Insulation Primary - Secondary.

The insulation between the primary and the secondary consists of min. four layers of 0,05mm thick Polyester film (total thickness min. 0,2mm). UL-Approved under Guide QMFZ2. Flame Class UL 94VTM-2. Approved for 130°C.

Two of these layers withstands together 4000Vac for one minute. The creep distance exceeds 8mm and the insulation resistanceis more than 5000 Megohm.

## Final Insulation.

The outer insulation consists of min. two layers of 0,05mm thick Polyester film. UL-Approved under Guide QMFZ2. Flame Class UL 94VTM-2. Approved for 130°C.

#### Potted Centre.

The centre hole is filled with self-extingushing Polyurethane. UL-Approved under Guide QMFZ2. Approved for 120°C. Flash point: Over 200°C.



# **EC/EEA Declaration of conformity**

Type of equipme	ent: Safety Isolating Tr	Safety Isolating Transformer	
Brand name:	Toroid		
Part no:	AA-98022		
Customer:	ELFA AB	56-132-78	
Manufactures:	Toroid International (Pvt) Ltd PO Box 15, Phase 2, FTZ Katunayake, Sri-Lanka Toroid India Pvt Ltd Technopark Campus Trivandrum 695 581 Kerala, India	Toroid Internation Box 3 351 03 Växjö, Sv Manufacture´s rej within EEA:	veden

As the manufacturer's authorised representative established within EEA, we declare that the product is in conformity with the provision of the EC directives: Low Voltage Directiven (LVD) 73/23/EEG, 93/68/EEG

The product fulfils the requirements according to the following harmonised standards: EN 61558-1, EN 60 950, EN 60 065 and IEC 601-1.

All transformers have been inspected and tested with approved result according to the following:

- 1. Ocular inspection
- 2. No-load input current
- 3. No-load secondary voltage
- 4. Dielectric strength between primary an

The product is to be regarded as a modular component to be used in an electric apparatus that in turn has to fulfil the EMC - directives.

The product itself does not need to be EMC approved for CE marking according to directive 89/336/EEG, 92/31/EEG and 93/68/EEG

Date: 2003-05-07

Thomas Svensson / Design engineer