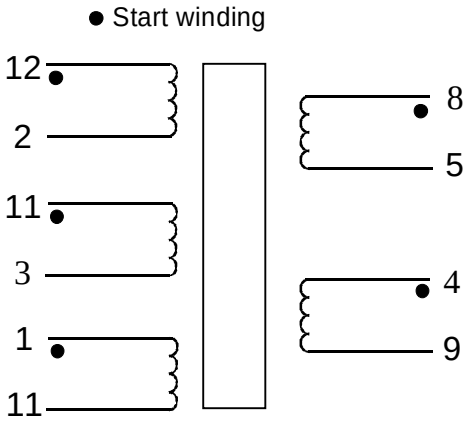
ELECTRICAL DIAGRAM



PRIMARY : 12 - 2

DEMAG : 11 - 3

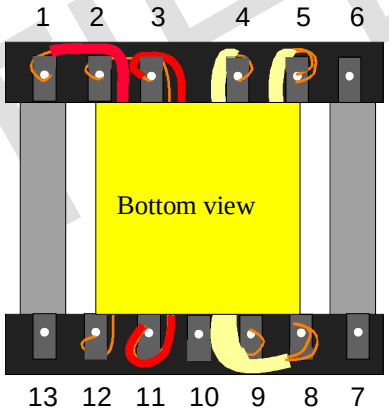
AUX PRIMARY SIDE : 1 - 11

AUX SECONDARY SIDE : 4 - 9

SECONDARY : 8 - 5

POSITION OF WIRES BETWEEN BOBBIN PINS

Pin-out	Winding	
	Start	Finish
12 - 2	11 - 12	3 - 4
8 - 5	8 - 9	4 - 5
4 - 5	4 - 5	4 - 5
11 - 3	10 - 11	3 - 4
1 - 11	2 - 3	10 - 11



Regulation : EN 60950

Transformer used in a FORWARD CONVERTER

BOBBIN **ETD 29** such as	:	NORWE ref. 90777-087
Pins such as	:	NORWE réf. 75511-060
CORE MATERIAL such as	:	3C90 Philips, N27 Siemens, B2 AVX, K2006 Kaschke.
Primary turns	: 62 T	Enamelled copper wire SWG33 (0.25 mm), **Classe F**, grade 2
Demag turns	: 62 T	Enamelled copper wire SWG33 (0.25 mm), **Classe F**, grade 2
Secondary turns	: 16 T	**bifilar** of triple insulated wire such as **FURUKAWA** ref. **TEX-F** [Cu = 0.40 mm]
Aux primary turns	: 5 T	Enamelled copper wire SWG30 (0.30 mm), **Classe F**, grade 2
Aux secondary turns	: 3 T	triple insulated wire such as **FURUKAWA** ref. **TEX-F** [Cu = 0.40 mm]

Primary inductance	:	8,8 mH±25%
Demag inductance	:	8,8 mH±25%
Pri-Sec parasitic capacitance	:	32 à 38pF
Pri-Sec leakage inductance	:	< 1µH

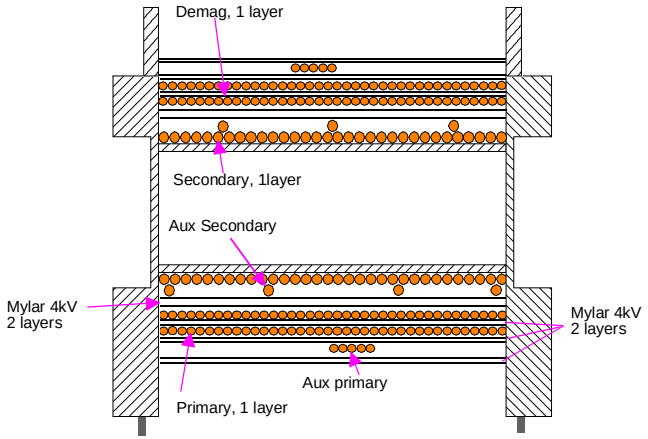
No Gap

ASSEMBLY

1) Wind Secondary : 16 T, start pin 8, finish pin 5
2) Wind Aux secondary : 3 T, start pin 4, finish pin 9
Add 2 layers of polyester tape 60µm, classe B, 5.5KV
3) Wind Demag : 62 T, start pin 11, finish pin 3
Add sleeve, one layer
Add 2 layers of polyester tape 60µm, classe B, 5.5KV
4) Wind Primary : 62 T, start pin 12, finish pin 2.
REMARK : 1 layer !
Add 2 layers of polyester tape 60µm, classe B, 5.5KV
5) Wind Aux primary : 5 T, start pin 1, finish pin 11
Add sleeve (6mm inside)
Add 2 layers of polyester tape 60µm, classe B, 5.5KV

Glue cores together (no clip)
Varnish
Check dielectric strenth VPRI/SEC > 4 KV

LAYERS CONFIGURATIONS



MARQUAGE : CUSTOMER
1000 4 442-1
Date code

Tolérances : suivant spécification et sous charge résistive en régime permanent

NORMES : EN 60950

DESIGNATION : **TRANSFORMATEUR**

NOMENCLATURE : ALE2902M - ALF2902M

Echelle : /

Nom : JP Méalhie

Date : 11/06/02

Date de Révision : G B le 12/10/06

Date d'Archivage :

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