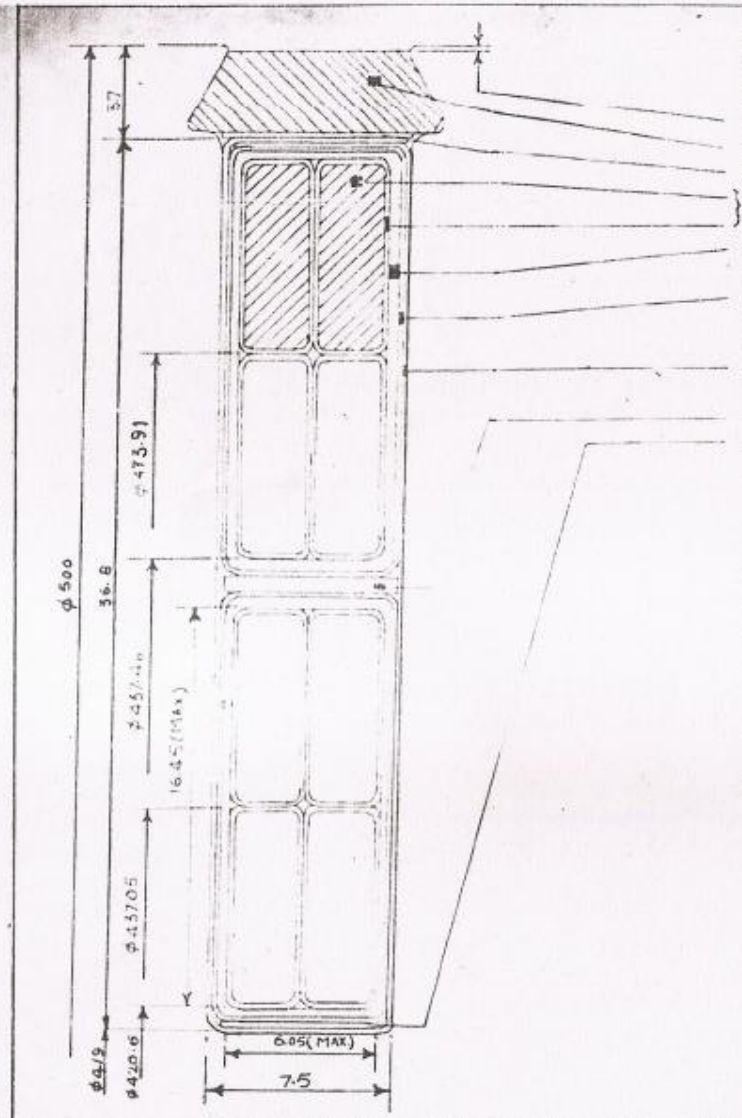


SLOT INSULATION DETAILS OF TAO-659 ARMATURE

DIMENSIONS	HEIGHT(mm)	WIDTH(mm)
-Clearance	0.10	-
-Slot Wedge	3.50	-
-Polyamide Shim	0.25	-
-Polyimide Covered Conductor (Max. Dimension)	32.9	6.05
-Polyimide film backed uniform mica tape, Size 0.1mm. thick X 25 mm wide	2.00	1.00
-Fibre Glass tape, Size 0.08mm thick X 19.mm wide (Prev. Impregnated in DC 996 Varnish)	0.36	0.18
-Slot liner-Polyamide Grade 410, 4 mil thick (Ends folded at the top)	0.30	0.20
- Polyamide shim Grade 410	0.80	--
- Polyamide shim Grade 410	0.10	--
TOTAL	40.31	7.43
SLOT SPACE	40.50	7.50

CONDUCTOR DIMENSION DETAILS:

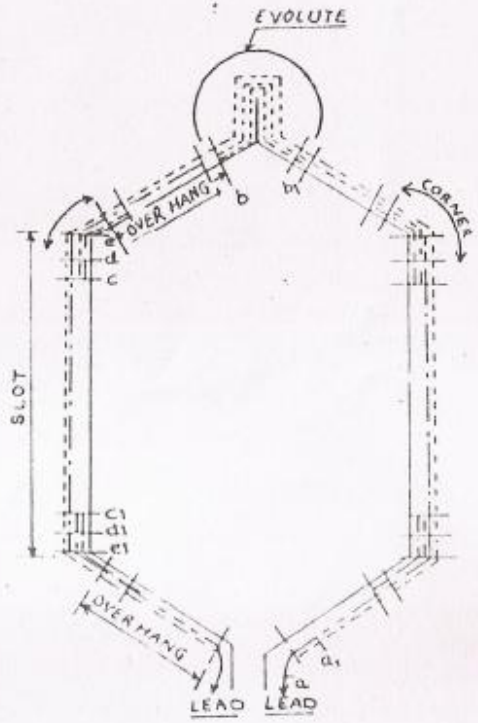
DIMENSIONS	HEIGHT(mm)	WIDTH(mm)
Bare conductor, nominal	8.0	2.8
Bare conductor, maximum	8.07	2.83
Conductor covered with Polyimide film 1.5 mil Thick 2/3 over lap maximum	8.225	3.025
SIZE OF THE ARMATURE COIL:		
Coil size before ground insulation	16.45	6.05
Finished coil size	17.63	7.23

NOTE:
1. Polyamide shim under the slot wedge, thickness to be adjusted so as to obtain a tight fit.
2. 5 mil slot liner may be used,if space permits.
3. Use solventless varnish of Dr. Beck FT2005 for VPI.
4. This drawing supersedes Drg No. SKEL-3573,3727 & 3728

STATUS	ALT.	REF. NO.	DESCRIPTION	APPROVED BY	DATE

REF: TMS N.Rly. CNB Drg No 3TMS CNB DRG 2003 2		SCALE: NTS	APPROVED BY FOR DG
MODIFIED INSULATION SCHEME OF TAO-659 ARMATURE COIL WITH POLYIMIDE COVERED CONDUCTOR			FIRST ISSUED
			SUPERSEDES
RDSO ELEC.DTE	SKEL- 3573 Rev.1 SHEET-1/2		SUPERSEDED BY

DR	23-4-2003	
D	S.KUMAR	
C		
EVD	EL/3.2.5	



1. 1st TAPING : Individual Conductor

(a) LEADS:

(i) Polyimide adhesive tape 0.065 X 10 mm. One layer 1/2 overlap for approximately 50 mm length (a to a1).
(ii) Polyamide tape 2 mil X 10 mm. One layer 1/2 over lap for approximately 50 mm (a to a1)
(iii) Fibre glass tape, prev. impregnated in DC996 varnish size 0.08 mm x 13 mm one layer 1/2 over lap for 50 mm (a to a1).

(b) EVOLUTES :

Polyimide adhesive tape 0.065 X 10mm one layer 1/2 over lap for approx. 70 mm length–one layer outer conductor and two layers inner conductor (b to b1).

(c) CORNERS :

Polyimide Adhesive Tape 0.065x 10mm one layer 1/2 over lap for approx. 30 mm length on all corners.

2. ASSEMBLY & STAGGERING :

The four conductors are bunched together for assembly. For staggering use Polyimide adhesive tape of size 0.065 x 10mm on slot portion and pre impregnated fibre glass tape of size 0.08x13 mm on overhang portion.

3. IInd TAPING : Slot Portion :

(i) Polyimide film backed uniform mica tape, size 0.1 x 25mm one layer 1/2 over lap (e to e1).
(ii) Polyimide film backed uniform mica tape, size 0.1 x 25mm one layer edge to edge (d to d1).
(iii) Polyimide film backed uniform mica tape, size 0.1 x 25mm one layer 1/2 over lap (e to e1).

Overhang :

On top overhangs two layers 1/2 over lap Polyimide film backed uniform mica tape, size 0.1x25mm is provided and on bottom overhangs one layer 1/2 over lap of Polyimide film backed uniform mica tape, size 0.1x25mm provided.

Overall :

Fibre Glass Tape prev. impregnated in DC 996 varnish, size 0.08x19 mm is applied one layer edge to edge on slot portion and one layer 1/2 over lap on the rest of the coil.

NOTE : Stop the end of each taping by Polyimide Adhesive tape, size 0.065 mm thick x 10 mm wide.

REF:TMS:N.Rly..CNB Drg No. 3TMS/CNB/DRG/2003/2		SCALE:NTS	APPROVED BY FOR DG
MODIFIED INSULATION SCHEME OF TAO-659 ARMATURE COIL WITH POLYIMIDE COVERED CONDUCTOR			FIRST ISSUED
			SUPERSEDES
RDSO.ELEC.DTE	SKEL- 3573 Rev.1 SHEET-2/2		SUPERSEDED BY

STATUS	ALT.	REF. NO.	DESCRIPTION	APPROVED BY	DATE

Dt.	23.6.2003
D	S.KUMAR
C	
File No.	EL/52.5