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TTG QX(TRM)

Tex(Trm)

# INSTRUMENT TRANSFORMER ELECTRICAL SPECIFICATION NO. 610357A

Type	ON	AN	<i>Medium Voltage</i>	<i>Current Potential Power Reactor</i>
Volts	Frame			Core Material
Amps	Shell	Ring	Core	Core Assembly
O.C.F. for Sec	H	ED	D	SPLIT RECTANGULAR CORE - CR80-ML Core to be annealed before bonding and cutting. & check with 10T/10Ti volts. 1.05 Amp. 0.85
VA/Ph.	C	OD	C	
Class	T	L	L	
Standard	Stack	Weight kg.	Style Nos.	
Cycles 50	Phase 1	DRG. NOS.	24924300002	24924300002

Copper Ks. Total	Conductor	Kg./Trans	Conductor	Kg./Trans	Conductor	Kg./Trans
4.2	cu. 0.4 mm	4.2				
	MSEAD. AA 28145					

Coil Treatment	WINDING Concentric: Sandwich Handwound on Core: Wind										One Off each Coil No.					
L No	PS No.	Coil No	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		P or S	L1	L2	L3	L4	L5	L6								
		Insulation														

WINDING DATA: Turns in Series P/ S							Prim ATs		Turns Corr	
CL No	Drawing No.	Conductor	Turns	Layers	Turns per Layer	Windings	Centre Block	Bare Coil Dimen		
4		0.4 mm	600	3	200		2 Trk 30x45	150	30	
5		ms En. rd. cu.	6420	32	See Supp sheet 2.			150	Total	
1		- do -	24	1	24		- do -	35+	30	
2		- do -	75	contd.	75			105	Total	
3		- do -	210	1	210			150		
6		- do -	6420	32	See Supp sheet 3			150		

Max. Width across coil No. \_\_\_\_\_ Max. Width across coil No. \_\_\_\_\_  
 Centre Block Coil No. \_\_\_\_\_ Coil No. \_\_\_\_\_

COIL INSULATION: Insulation Spec No.			Drg. No.		
Coil No.	Between: Turns:	Section:	Coils	Between layers:	
	2 off 0.125 mm Kraft paper			2 off 0.125 mm Alw paper	174 mm
	194 <del>188</del> mm wide				

TIPPING: Bring out with			INSULATING CYLINDERS			
Coil No.	Sec. Suppl. sheets 1, 2, 3		ID	T	Matl.	Drawing No.
Turns No.			C-L			Clearance
Lead No.			L-H			
Turns betn.			H-C			
LEADS P of	S of		Primary Section		Between Phases	

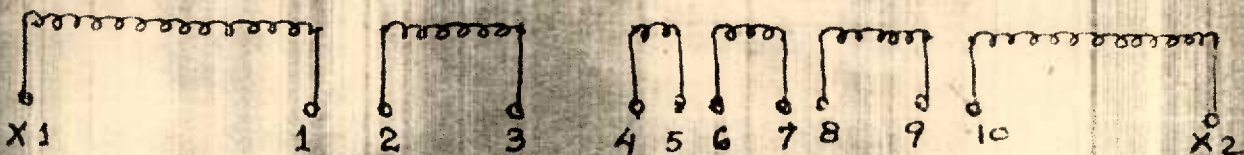
TEST DATA				Serrated Insulation Drg.			
Pressure Test for	Min. at	Temp. 75 C	Calculated				
Coil No.		Iron Loss		1) For Gap setting refer index ES			
K. V.		Copper Loss		2) Core clamping plate, clamping stud and core earthing strip to be tied together for equal potential.			
Coil No.		Mag Current	Amps.	Connection Diagram Drg.			
K. V.		CL No. Basis 3	CL No. Basis 8	General Arrangement Drg.			
Overpotential Test for	Min. Volts at ~	5	290	3	9.5		
		6	290	2	3.4		
Supply	Earth	4	25	1	1.1		

Est M 0.72536 f 533-01      Ck. Date 28/12/91      Checked Date      App. Date 28/12/92      Elec. Spec No. 610357A

Sub A issued to change paper width

W.O. 7253 A 533-01

ES 610357A Sup. Str. 1.



Coil no.	4	4	5	5
Turns No.	-	600	-	6420
Lead No.	3	2	1	X <sub>1</sub>
Turns between.	600		6420	

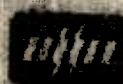
1	1	2	2	3	3	6	6
-	24	-	75	-	210	-	6420
4	5	6	7	8	9	10	X <sub>2</sub>
24		75		210		6420	

- Note 1. Start winding of coil 4 and 5 from LHS and also bring all tapping leads to L.H.S.
2. Start winding of coil 1, 2, 3 and 6 from LHS and also bring all tapping leads to L.H.S.
3. Join X<sub>1</sub> to line lead and take out the lead from line shield.
4. Join X<sub>2</sub> to line lead and take out the lead from line shield.
5. Tapping coil 1 and 2 are in one common layer.

Cal.

28.8.91

checked.



No. 70529 A 533-01

ES 610357A

Sup. sheet-2

Medium Voltage Reactor: Winding schedule for coil 4 and 5.

Coil No.	Layer No.	Turns per layer	Progressive turns.	CD in mm.	Coil No.	Layer No.	Turns per layer	Progressive turns	CD in mm.					
4,	1	200	200	150	Continued:									
	2	200	400	150										
	3	200 (spread)	600	150										
5,	4	290	290	150						5	23	180	4554	93
	5	282	572	146						24	177	4731	92	
	6	274	846	142						25	174	4905	90	
	7	266	1112	138						26	171	5076	89	
	8	259	1371	134						27	168	5244	87	
	9	252	1623	130						28	165	5409	85	
	10	245	1868	126						29	162	5571	84	
	11	238	2106	123						30	159	5730	82	
	12	232	2338	120						31	156	5886	81	
	13	226	2564	117						32	153	6039	79	
	14	220	2784	114						33	150	6189	78	
	15	215	2999	111						34	147	6336	76	
	16	210	3209	108						35	84 (spread)	6420	75	
	17	205	3414	105										
	18	200	3614	103										
	19	196	3810	101										
	20	192	4002	99										
	21	188	4190	97										
	22	184	4374	95										

Continued.

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Supp.  
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