

MANUFACTURER		A L S T O M ELEKTRİK ENDÜSTRİSİ A.Ş. 41401 GEBZE / KOCAELİ - TÜRKİYE	
KIND : POWER TRANSFORMER	NUMBER OF PHASES	3	INSULATION LEVEL OF WINDINGS
SERIAL NO. 316417	FREQUENCY	50 Hz	WINDING
YEAR OF MANUFACTURE 2003	CONNECTION GROUP	YN0d11	HV
STANDARD IEC 60076	SERVICE	CONTINUOUS	LV
COOL.METHOD	ONAN / ONAF		N
			TERTIARY

RATED POWER (MVA)	RATED VOLTAGE (kV)			CURRENT (A)				
	HV	LV	TERTIARY	POS.1/HV	POS. 9/HV	POS.17/HV	LV	TERTIARY
ONAN 75/75/18	225000	121000	23000	175,0	192,5	213,8	375,9	451,8
ONAF 125/125/30				291,6	320,8	356,4	596,4	753,1

SHORT CIRCUIT VOLTAGE (%) AND IMPEDANCE (Ω)									
WINDING PAIR	BASE (MVA)	POSITION		U _k (%)	WINDING	MAX.CONTINUOUS (kA)	SHORT-CIRCUIT CURRENT sec.		
		HV	LV						
HV/LV	125	1	-	*	HV	*			
		9		*					
		17		*					
HV/TER.	30	9	3	*	HV	*		2	
LV/TER.		-	3	*	TERTIARY	*			



Routine Test Report for MR-Products

MR comm.no. / MR serial no.: A0301176 587397
Customer p.o. no.: 353994 dated 12.03.03
Customer's order: 316417
Transformer Manufacturer: ALSTOM ELEKTRIK ENDÜSTRISI A.S.

Tests carried out On-Load Tap Changer type 3 X M I 501-170/C-10 19 3W

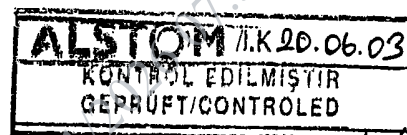
- Functional test of sub-assemblies
- Routine test of the diverter switch insert comprising 4000 mechanical switching operations
- Leakage test of the oil compartment according to IEC 60214 by means of vacuum in both pressure directions. The test medium is helium.
- Auxiliary circuits insulation test
- Routine test of the complete on-load tap changer over ten cycles of operation according to IEC 60214

The on-load tap changer was tested according to IEC 60214 and to MR's test plans.
The results of the measurements and tests are recorded in the files of MR.

Tests carried out on the protective relay (if installed)

- Auxiliary circuits insulation test
- Leakage test by means of helium
- Functional test of the complete protective relay

The sensitivity of response of the protective relay was tested according to MR's test plans.
The results of the measurements and tests are recorded in the files of MR.



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Tests carried out Motor drive type ED 100 L

- Functional test of sub-assemblies
- Auxiliary circuits insulation test
- Test of the motor drive unit with equivalent load according to IEC 60214

The motor drive unit was tested according to IEC 60214 and to MR's test plans.
The results of the measurements and tests are recorded in the files of MR.

The product has passed the tests and has been released by quality assurance.

Regensburg, 28 May 2003
Maschinenfabrik Reinhausen GmbH
- Quality Management -

Mr. Badenberg
(Computer printout, valid without signature)

Kontrol Edilmistir	
Tarih	Imza
5-6.2003	<i>Handwritten signature</i>
Sip. no: 353994 - poz: 1	

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KOD = H14835