



HANNOVER
MULHOUSE
PARIS
VAASSEN

GÖTEBORG
MILANO
SAN SEBASTIAN

TEST CERTIFICATE

Make Helmke		Customer: Helmke Italia	
Type FTM 450 H4		Order-No.: 57.494-96	
No. 57494-96/L6130		Com.-No.: L 6130	
Kind: Threephase slipring motor			
Bearings: DE NU226EMC3+6226MC3 NDE NU226EMC3			
Relubrication: DE 200h/95 cm³ NDE 200h/50 cm³			
Temperature Detectors: DE 2 x Pt100 NDE 2 x Pt100			
Temperature Detector Winding: 6 x Pt100			
Space heaters: 220 V : 1,0/0,2 kW			
Cooling: IC611			
Duty type: S1 Frame type: IMB3			
Winding Resistance at 10 °C		Stator U1-V1; U1-W1; V1-W1 each 0,5130 Ohm	
		Rotor K-L; K-M; L-M each 0,0204 Ohm	
Insulation		Stator 1000 MOhm 5 kV	
		Rotor 1500 MOhm 2,5 kV	
High-Voltage Test		Stator 10,9 kV 2,6 sec.	
		Rotor 2,6 kV 60 sec.	
No-Load Test	Y 6300 V 21,0/21,3/21,0 A 17,04 kW 50 Hz		
	V A kW Hz		
	V A kW Hz		
Ratio	U _{Stat} : Y 6300 V U _{Rot} : 3 x 1084 V		
Short-circuit Test	V A kW Hz		
	Y 1097 V 3 x 81 A 19,86 kW 50 Hz		
	Y 1430 V 3 x 108 A 34,38 kW 50 Hz		
	Y 1753 V 3 x 135 A 53,34 kW 50 Hz		
Bearing-measurement (SPM)	dB _i : 22 DE / dB _N : 0/18 NDE / dB _N : -5/11		
Bearing Temperature after	Min. No-Load Test	DE °C	NDE °C AT °C

Notes:

Intertuntest: Y 7400 V; 60 Hz; 3 min.

brush lifting device : SA62 DT 7 1D4; 0,37 kW; 220/380 V;
2,25/1,30 A; 1380/7,5 1/min; 50 Hz; S1; IMB3; IP 54; !C411;
insul. 3000 MΩ/0,5 kV; highvolt. 1,5 kV/1 min.

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