

Producer: Siemens Standard Motors Ltd.								
Address : No. 110, West Street Qingshan Town Yizheng City Jiangsu Province 211417, P.R.China								
TYPE TEST CERTIFICATE OF INDUCTION MOTOR								
TEST No...Probe Nr. :								
TYPE... : 1LG0183-4AA		SERIAL-No: 13879		spec.: 3				
18.5 kW	380 V	D	36.1 A	1470 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	175 kg			
WINDING RESISTANCE - cold					$R_{f20} =$ 0.458948 Ω			
TERMINALS:		U-V	U-W	V-W	$R_{isol} >$ 0.5 $G\Omega$			
$\vartheta =$ 11 °C	$R (\Omega) :$	0.29510	0.29510	0.29530				
$M_N =$ 120.2 Nm	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
P_{in} (W)	20340	20447					2. CORRECTED for P _n	
P (W)	18407	18500	18500			18500		
U (V)	380					380		
I (A)	35.8	36.0	36.0			36.1		
f (Hz)	50	50	50			50		
SPEED (1/min)	1466	1466	1466			1470	3. CORRECTED FOR T _{REF} according EN 60034-2	
Torque (Nm)	119.9							
η (%)	90.50	90.48	90.3			89.3		
cos φ (-)	0.864	0.864				0.86		
M_{ST} / M_N ♦ M_A / M_N (-)	2.0	2.0				2.2		
I_{ST} / I_N ♦ I_A / I_N (-)	7.2	7.2				7.5	4. CORRECTED FOR T _{REF} according CEMEP	
M_{MAX} / M_N ♦ M_K / M_N (-)	2.34	2.34				2.3		
SLIP ... (%)	2.27	2.28				2.00		
WINDING - $\Delta \vartheta$ (K)	64.7 (30 s)	65.4 (30 s)	EN 60034-2 T _{ref} = 95°C			80		
ϑ_a (°C)	12	12						
FRAME - $\Delta \vartheta$ (K)	33.5	33.8					5. MEASURING at 75% P _n	
TIME ... (min)	270							
BEARING_D - $\Delta \vartheta$ (K)	42.5	42.9						
RESISTANCE - warm	0.37400	0.37478	$R_{isol} =$ 0.2 $G\Omega$				6. GUARANTED	
(Ω)	0.37400	0.37478						
	0.37400	0.37478						
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
U ₀ (V)	I ₀ (A)	P ₀ (W)	cos φ_0 (-)	U _A (V)	I _A (A)	M _A (N.m.)	P _A (W)	cos φ_A (-)
380	13.0559	772	0.090	380	260.3	242.7	78934	0.461
COIL TEST		HIGH-SPEED TEST		HIGH POTENCIAL TEST				
130% U _N - 3 min.		120% n _{MAX} - 2 min.		2500 V - 1 min.				
TESTS CONFORM to the ... EN 60034								
NOTE							order:	
A&D SD MF QM		DATE... 10/11/2008		PAGE... 1 / 6		SIGNATURE LAZ		