

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... : 1LG0223-2AA		SERIAL-No: 7913		spec.: 3				
45 kW	380 V	D	82.1 A	2960 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	282 kg			
WINDING RESISTANCE - cold					$R_{f20} = 0.126723 \ \Omega$			
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 11 \ ^\circ C$	$R (\ \Omega) :$	0.08150	0.08150	0.08150				
$M_N = 145.2 \ Nm$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \ (W)$	49920	48667					2. CORRECTED for Pn	
$P \ (W)$	46148	45000	45000			45000		
$U \ (V)$	380					380		
$I \ (A)$	83.7	81.6	81.6			82.1		
$f \ (Hz)$	50	50	50			50		
SPEED $(1/min)$	2955	2956	2956			2960	3. CORRECTED FOR T_{REF} according EN 60034-2	
Torque (Nm)	149.1							
$\eta \ (\%)$	92.44	92.47	92.4			91.7		
$\cos \varphi \ (-)$	0.906	0.906				0.9		
$M_{ST} / M_N \ \diamond \ M_A / M_N \ (-)$	1.9	1.9				2.0		
$I_{ST} / I_N \ \diamond \ I_A / I_N \ (-)$	7.9	7.9				7.5	4. CORRECTED FOR T_{REF} according CEMEP	
$M_{MAX} / M_N \ \diamond \ M_K / M_N \ (-)$	2.45	2.45				2.3		
SLIP ... $(\%)$	1.50	1.46				1.33		
WINDING - $\Delta \vartheta \ (K)$	74.5 (30 s)	71.7 (30 s)	EN 60034-2 $T_{ref} = 95^\circ C$			80		
$\vartheta_a \ (^\circ C)$	10.5	10.5						
FRAME - $\Delta \vartheta \ (K)$	59.5	57.3					5. MEASURING at 75% Pn	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \ (K)$	50.5	48.6						
RESISTANCE - warm $(\ \Omega)$	0.10600 0.10600 0.10600	0.10509 0.10509 0.10509	$R_{isol} = 0.2 \ G\Omega$				6. GUARANTED	
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o \ (V)$	$I_o \ (A)$	$P_o \ (W)$	$\cos \varphi_o \ (-)$	$U_A \ (V)$	$I_A \ (A)$	$M_A \ (N.m.)$	$P_A \ (W)$	$\cos \varphi_A \ (-)$
380	19.9733	1747	0.133	380	646.2	274.8	173469	0.408
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... 27/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		