

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... : 1LG0313-6AB		SERIAL-No: 15073		spec.: 3				
90 kW	380 V	D	170 A	985 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	1050 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.046792 \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 18\text{ °C}$	$R(\Omega) :$	0.03095	0.03095	0.03095				
$M_N = 872.6\text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} (W)$	97000	95937					2. CORRECTED for Pn	
$P (W)$	90986	90000	90000			90000		
$U (V)$	380					380		
$I (A)$	171.9	170.0	170.0			170		
$f (Hz)$	50	50	50			50		
SPEED (1/min)	986	986	986			985	3. CORRECTED FOR T_{REF} according EN 60034-2	
Torque (Nm)	881.2							
$\eta (\%)$	93.80	93.81	93.8			92.9		
$\cos \varphi (-)$	0.857	0.857				0.86		
$M_{ST} / M_N \diamond M_A / M_N (-)$	2.1	2.1				2.0		
$I_{ST} / I_N \diamond I_A / I_N (-)$	7.1	7.1				7.0	4. CORRECTED FOR T_{REF} according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N (-)$	2.23	2.23				2.0		
SLIP ... (%)	1.40	1.38				1.50		
WINDING - $\Delta \vartheta (K)$	68.3 (90 s)	67.2 (90 s)	EN 60034-2 $T_{ref} = 95\text{ °C}$			80		
$\vartheta_a (\text{ °C})$	22	22						
FRAME - $\Delta \vartheta (K)$	39	38.4					5. MEASURING at 75% Pn	
TIME ... (min)	270							
BEARING_D - $\Delta \vartheta (K)$	33	32.5						
RESISTANCE - warm (Ω)	0.03980 0.03980 0.03980	0.03966 0.03966 0.03966	$R_{isol} = 0.2 G\Omega$				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	58.4843	2658	0.069	380	1203.0	1838.3	295496	0.373
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... 22/4/2009		PAGE... 1 / 6		SIGNATURE LAZ		