

Producer: <b>Siemens Standard Motors Ltd.</b>								
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... : <b>1LG0166-6AA</b>		SERIAL-No: <b>917</b>		spec.: 3				
11 kW	380 V	D	24.5 A	970 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	127 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.728504 \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 9.2 \text{ }^{\circ}\text{C}$	$R (\Omega) :$	0.46510	0.46510	0.46510				
$M_N = 108.3 \text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \text{ (W)}$	13102	12541					2. CORRECTED for Pn	
$P \text{ (W)}$	11472	11000	11000			11000		
$U \text{ (V)}$	380					380		
$I \text{ (A)}$	24.7	23.7	23.7			24.5		
$f \text{ (Hz)}$	50	50	50			50		
SPEED (1/min)	964	965	965			970	3. CORRECTED FOR $T_{REF}$ according EN 60034-2	
Torque (Nm)	113.6							
$\eta \text{ (%)}$	87.56	87.71	87.5			86.4		
$\cos \varphi \text{ (-)}$	0.805	0.804				0.78		
$M_{ST} / M_N \diamond M_A / M_N \text{ (-)}$	1.7	1.7				2.0		
$I_{ST} / I_N \diamond I_A / I_N \text{ (-)}$	7.1	7.1				6.5	4. CORRECTED FOR $T_{REF}$ according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N \text{ (-)}$	2.22	2.22				2.1		
SLIP ... (%)	3.60	3.45				3.00		
WINDING - $\Delta \vartheta \text{ (K)}$	75.6 (30 s)	71.0 (30 s)	EN 60034-2 $T_{ref} = 95^{\circ}\text{C}$			80		
$\vartheta_a \text{ (}^{\circ}\text{C)}$	4.5	4.5						
FRAME - $\Delta \vartheta \text{ (K)}$	35.5	33.3					5. MEASURING at 75% Pn	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \text{ (K)}$	51.8	48.7						
RESISTANCE - warm	0.60020	0.59144	... U-V				6. GUARANTED	
$(\Omega)$	0.60020	0.59144	... U-W $R_{isol} = 0.2 G\Omega$					
	0.60020	0.59144	... V-W					
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o \text{ (V)}$	$I_o \text{ (A)}$	$P_o \text{ (W)}$	$\cos \varphi_o \text{ (-)}$	$U_A \text{ (V)}$	$I_A \text{ (A)}$	$M_A \text{ (N.m.)}$	$P_A \text{ (W)}$	$\cos \varphi_A \text{ (-)}$
380	11.9951	710	0.090	380	173.8	185.5	57974	0.507
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... 11/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		