

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... : 1LG0096-4AA			SERIAL-No: 1553		spec.: 3
1.5 kW	380 V	Y	3.67 A	1390 /min	50 Hz
S1	IP55	Isol. F	40 °C	IM B3	27.5 kg

WINDING RESISTANCE - cold					$R_{f20} = 6.681983 \Omega$
TERMINALS:			U-W	V-W	$R_{isol} > 0.5 G\Omega$
$\vartheta = 8.8 \text{ }^{\circ}\text{C}$	$R (\Omega) :$	4.25900	4.25900	4.25900	

$M_N = 10.3 \text{ Nm}$	LOAD TEST						1. MEASURING
	1.	2.	3.	4.	5.	6.	
$P_{in} \text{ (W)}$	1850	1888					
$P \text{ (W)}$	1471	1500	1500			1500	2. CORRECTED for Pn
$U \text{ (V)}$	380					380	
$I \text{ (A)}$	3.6	3.7	3.7			3.67	
$f \text{ (Hz)}$	50	50	50			50	3. CORRECTED FOR T_{REF} according EN 60034-2
SPEED (1/min)	1410	1408	1408			1390	
Torque (Nm)	10.0						
$\eta \text{ (%)}$	79.53	79.45	79.4			77.2	4. CORRECTED FOR T_{REF} according CEMEP
$\cos \varphi \text{ (-)}$	0.779	0.779				0.79	
$M_{ST} / M_N \diamond M_A / M_N \text{ (-)}$	2.8	2.8				2.3	
$I_{ST} / I_N \diamond I_A / I_N \text{ (-)}$	5.8	5.8				6.0	5. MEASURING at 75% Pn
$M_{MAX} / M_N \diamond M_K / M_N \text{ (-)}$	2.91	2.91				2.3	
SLIP ... (%)	6.00	6.12				7.33	
WINDING - $\Delta \vartheta \text{ (K)}$	76.0 (30 s)	78.2 (30 s)	EN 60034-2 $T_{ref} = 95^{\circ}\text{C}$			80	6. GUARANTED
$\vartheta_a \text{ (}^{\circ}\text{C)}$	12	12					
FRAME - $\Delta \vartheta \text{ (K)}$	42	43.2					
TIME ... (min)	180						6. GUARANTED
BEARING_D - $\Delta \vartheta \text{ (K)}$	38	39.1					
RESISTANCE - warm (Ω)	5.64200 5.64200 5.64200	5.68119 5.68119 5.68119	... U-V ... U-W ... V-W			$R_{isol} = 0.2 G\Omega$	

NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_0 \text{ (V)}$	$I_0 \text{ (A)}$	$P_0 \text{ (W)}$	$\cos \varphi_0 \text{ (-)}$	$U_A \text{ (V)}$	$I_A \text{ (A)}$	$M_A \text{ (N.m.)}$	$P_A \text{ (W)}$	$\cos \varphi_A \text{ (-)}$
380	2.3809	209	0.133	380	21.3	29.1	10267	0.733

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... 12/1/2009	PAGE... 1 / 6	SIGNATURE LAZ