

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>1LG0223-4AA</b>		SERIAL-No: <b>15326</b>		spec.: 3				
<b>45 kW</b>	<b>380 V</b>	<b>D</b>	<b>84.7 A</b>	<b>1475 /min</b>	<b>50 Hz</b>			
<b>S1</b>	<b>IP55</b>	<b>Isol. F</b>	<b>40 °C</b>	<b>IM B3</b>	<b>325 kg</b>			
WINDING RESISTANCE - cold					$R_{f20} = 0.139091 \Omega$			
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 18 \text{ °C}$	$R (\Omega) :$	<b>0.09200</b>	<b>0.09200</b>	<b>0.09200</b>				
$M_N = 291.4 \text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \text{ (W)}$	49040	<b>48661</b>					2. CORRECTED for Pn	
$P \text{ (W)}$	45341	<b>45000</b>	45000			<b>45000</b>		
$U \text{ (V)}$	380					<b>380</b>		
$I \text{ (A)}$	85.8	<b>85.2</b>	85.2			<b>84.7</b>		
$f \text{ (Hz)}$	50	<b>50</b>	50			<b>50</b>		
SPEED (1/min)	1474	<b>1474</b>	1474			<b>1475</b>	3. CORRECTED FOR $T_{REF}$ according EN 60034-2	
Torque (Nm)	293.8							
$\eta \text{ (%)}$	92.46	92.48	92.5			<b>91.7</b>		
$\cos \varphi \text{ (-)}$	0.868	0.868				<b>0.87</b>		
$M_{ST} / M_N \diamond M_A / M_N \text{ (-)}$	2.1	<b>2.1</b>				<b>2.2</b>		
$I_{ST} / I_N \diamond I_A / I_N \text{ (-)}$	7.3	<b>7.3</b>				<b>7.2</b>	4. CORRECTED FOR $T_{REF}$ according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N \text{ (-)}$	2.31	<b>2.31</b>				<b>2.3</b>		
SLIP ... (%)	1.73	<b>1.72</b>				<b>1.67</b>		
WINDING - $\Delta \vartheta \text{ (K)}$	74.7 (30 s)	<b>73.6</b> (30 s)	EN 60034-2 $T_{ref} = 95 \text{ °C}$			<b>80</b>		
$\vartheta_a \text{ (°C)}$	20	20						
FRAME - $\Delta \vartheta \text{ (K)}$	36	35.5					5. MEASURING at 75% Pn	
TIME ... (min)	300							
BEARING_D - $\Delta \vartheta \text{ (K)}$	57	<b>56.1</b>						
RESISTANCE - warm	0.11990	0.11949	... U-V				6. GUARANTED	
( $\Omega$ )	0.11990	0.11949	... U-W $R_{isol} = 0.2 G\Omega$					
	0.11990	0.11949	... V-W					
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o \text{ (V)}$	$I_o \text{ (A)}$	$P_o \text{ (W)}$	$\cos \varphi_o \text{ (-)}$	$U_A \text{ (V)}$	$I_A \text{ (A)}$	$M_A \text{ (N.m.)}$	$P_A \text{ (W)}$	$\cos \varphi_A \text{ (-)}$
<b>380</b>	<b>26.5681</b>	<b>1442</b>	<b>0.082</b>	<b>380</b>	<b>616.6</b>	<b>603.5</b>	<b>177701</b>	<b>0.438</b>
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 ... <b>EN 60034</b>								
NOTE							order:	
A&D SD MF QM		DATE... 5/11/2008		PAGE... 1 / 6		SIGNATURE LAZ		