

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>1LG0183-2AA</b>		SERIAL-No: <b>139</b>		spec.: <b>3</b>				
<b>22 kW</b>	<b>380 V</b>	<b>D</b>	<b>41.2 A</b>	<b>2940 /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>180 kg</b>			
WINDING RESISTANCE - cold					$R_{f20} =$ <b>0.347770 <math>\Omega</math></b>			
TERMINALS:		U-V	U-W	V-W	$R_{isol} >$ <b>0.5 <math>G\Omega</math></b>			
$\vartheta =$	<b>9.5 °C</b>	$R (\Omega) :$	<b>0.22230</b>	<b>0.22230</b>	<b>0.22230</b>			
$M_N =$	<b>71.5 Nm</b>	LOAD TEST					1. MEASURING	
		1.	2.	3.	4.	5.		6.
$P_{in}$ ( W )		25224	<b>24505</b>					2. CORRECTED for P <sub>n</sub>
$P$ ( W )		22631	<b>22000</b>	22000			<b>22000</b>	
$U$ ( V )		380					<b>380</b>	
$I$ ( A )		42.4	<b>41.3</b>	41.3			<b>41.2</b>	
$f$ ( Hz )		50	<b>50</b>	50			<b>50</b>	
SPEED (1/min)		2926	<b>2928</b>	2928			<b>2940</b>	3. CORRECTED FOR T <sub>REF</sub> according EN 60034-2
Torque ( Nm )		73.9						
$\eta$ ( % )		89.72	89.78	89.7			<b>89.9</b>	
$\cos \varphi$ ( - )		0.903	0.902				<b>0.9</b>	
$M_{ST} / M_N \diamond M_A / M_N$ ( - )		2.3	<b>2.3</b>				<b>2.0</b>	
$I_{ST} / I_N \diamond I_A / I_N$ ( - )		7.2	<b>7.2</b>				<b>7.5</b>	4. CORRECTED FOR T <sub>REF</sub> according CEMEP
$M_{MAX} / M_N \diamond M_K / M_N$ ( - )		2.55	<b>2.55</b>				<b>2.3</b>	
SLIP ... ( % )		2.47	<b>2.40</b>				<b>2.00</b>	
WINDING - $\Delta \vartheta$ ( K )		82.8 ( 30 s )	<b>79.3</b> ( 30 s )	EN 60034-2 T <sub>ref</sub> = 95°C			<b>80</b>	
$\vartheta_a$ ( °C )		4.5	4.5					
FRAME - $\Delta \vartheta$ ( K )		36.5	35.0					5. MEASURING at 75% P <sub>n</sub>
TIME ... ( min )		240						
BEARING_D - $\Delta \vartheta$ ( K )		41.5	<b>39.8</b>					
RESISTANCE - warm		0.29300	0.28988	... U-V				6. GUARANTED
( $\Omega$ )		0.29300	0.28988	... U-W $R_{isol} =$ <b>0.2 <math>G\Omega</math></b>				
		0.29300	0.28988	... V-W				
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 )	$\cos \varphi_A$ ( - )
<b>380</b>	<b>10.7293</b>	<b>1136</b>	<b>0.161</b>	<b>380</b>	<b>298.3</b>	<b>163.9</b>	<b>91757</b>	<b>0.467</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... 26/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		