

Producer: <b>Siemens Standard Motors Ltd.</b>								
Address : No. 110, West Street Qingshan Town Yizheng City Jiangsu Province 211417, P.R.China								
<b>TYPE TEST CERTIFICATE OF INDUCTION MOTOR</b>								
TEST No...Probe Nr. :								
TYPE... : <b>1LG0310-2AC</b>		SERIAL-No: <b>1070</b>		spec.: 3				
<b>110 kW</b>	<b>380 V</b>	<b>D</b>	<b>195 A</b>	<b>2975 /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>960 kg</b>			
WINDING RESISTANCE - cold					$R_{f20} = 0.025102 \ \Omega$			
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 21 \ ^\circ\text{C}$	$R(\ \Omega) :$	<b>0.01680</b>	<b>0.01680</b>	<b>0.01680</b>				
$M_N = 353.1 \ \text{Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \ (W)$	116000	<b>117847</b>					2. CORRECTED for Pn	
$P \ (W)$	108243	<b>110000</b>	110000			<b>110000</b>		
$U \ (V)$	380					<b>380</b>		
$I \ (A)$	196.6	<b>199.8</b>	199.8			<b>195</b>		
$f \ (Hz)$	50	<b>50</b>	50			<b>50</b>		
SPEED (1/min)	2974	<b>2974</b>	2974			<b>2975</b>	3. CORRECTED FOR $T_{REF}$ according EN 60034-2	
Torque (Nm)	347.6							
$\eta \ (\%)$	93.31	93.34	93.4			<b>93.3</b>		
$\cos \varphi \ (-)$	0.896	0.896				<b>0.91</b>		
$M_{ST} / M_N \ \blacklozenge \ M_A / M_N \ (-)$	2.0	<b>2.0</b>				<b>1.8</b>		
$I_{ST} / I_N \ \blacklozenge \ I_A / I_N \ (-)$	7.0	<b>7.0</b>				<b>7.1</b>	4. CORRECTED FOR $T_{REF}$ according CEMEP	
$M_{MAX} / M_N \ \blacklozenge \ M_K / M_N \ (-)$	2.38	<b>2.38</b>				<b>2.2</b>		
SLIP ... (%)	0.87	<b>0.88</b>				<b>0.83</b>		
WINDING - $\Delta \vartheta \ (K)$	76.8 (90 s)	<b>78.7</b> (90 s)	EN 60034-2 $T_{ref} = 95^\circ\text{C}$			<b>80</b>		
$\vartheta_a \ (^\circ\text{C})$	22.5	22.5						
FRAME - $\Delta \vartheta \ (K)$	32	32.8					5. MEASURING at 75% Pn	
TIME ... (min)	270							
BEARING_D - $\Delta \vartheta \ (K)$	60.5	<b>62.0</b>						
RESISTANCE - warm ( $\Omega$ )	0.02194 0.02194 0.02194	0.02206 0.02206 0.02206	$R_{isol} = 0.2 \ G\Omega$				6. GUARANTED	
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o \ (V)$	$I_o \ (A)$	$P_o \ (W)$	$\cos \varphi_o \ (-)$	$U_A \ (V)$	$I_A \ (A)$	$M_A \ (N.m.)$	$P_A \ (W)$	$\cos \varphi_A \ (-)$
<b>380</b>	<b>54.0065</b>	<b>5023</b>	<b>0.141</b>	<b>380</b>	<b>1372.7</b>	<b>710.6</b>	<b>290745</b>	<b>0.322</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... 9/4/2009		PAGE... 1 / 6		SIGNATURE LAZ		