

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... : 1LG0313-2AC		SERIAL-No: 18342		spec.: 3				
132 kW	380 V	D	233 A	2975 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	1060 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.020702 \ \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 18.5 \ ^\circ\text{C}$	$R(\Omega) :$	0.01372	0.01372	0.01372				
$M_N = 423.7 \ \text{Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \ (W)$	140200	140461					2. CORRECTED for Pn	
$P \ (W)$	131752	132000	132000			132000		
$U \ (V)$	380					380		
$I \ (A)$	238.0	238.4	238.4			233		
$f \ (Hz)$	50	50	50			50		
SPEED (1/min)	2975	2975	2975			2975	3. CORRECTED FOR T_{REF} according EN 60034-2	
Torque (Nm)	422.9							
$\eta \ (\%)$	93.97	93.98	94.0			93.5		
$\cos \varphi \ (-)$	0.895	0.895				0.91		
$M_{ST} / M_N \ \blacklozenge \ M_A / M_N \ (-)$	1.6	1.6				1.8		
$I_{ST} / I_N \ \blacklozenge \ I_A / I_N \ (-)$	7.0	7.0				7.1	4. CORRECTED FOR T_{REF} according CEMEP	
$M_{MAX} / M_N \ \blacklozenge \ M_K / M_N \ (-)$	2.27	2.27				2.2		
SLIP ... (%)	0.83	0.83				0.83		
WINDING - $\Delta \vartheta \ (K)$	78.6 (90 s)	78.9 (90 s)	EN 60034-2 $T_{ref} = 95^\circ\text{C}$			80		
$\vartheta_a \ (^\circ\text{C})$	19	19						
FRAME - $\Delta \vartheta \ (K)$	40	40.2					5. MEASURING at 75% Pn	
TIME ... (min)	270							
BEARING_D - $\Delta \vartheta \ (K)$	50	50.2						
RESISTANCE - warm	0.01800	0.01802	... U-V				6. GUARANTED	
(Ω)	0.01800	0.01802	... U-W $R_{isol} = 0.2 \ G\Omega$					
	0.01800	0.01802	... V-W					
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o \ (V)$	$I_o \ (A)$	$P_o \ (W)$	$\cos \varphi_o \ (-)$	$U_A \ (V)$	$I_A \ (A)$	$M_A \ (N.m.)$	$P_A \ (W)$	$\cos \varphi_A \ (-)$
380	56.82	5168	0.138	380	1629.4	666.5	328874	0.307
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... 13/4/2009		PAGE... 1 / 6		SIGNATURE LAZ		