

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... : 1LG0166-2AA		SERIAL-No: 907		spec.: 3				
18.5 kW	380 V	D	34.7 A	2930 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	135 kg			
WINDING RESISTANCE - cold					$R_{f20} = 0.381713 \Omega$			
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 8 \text{ °C}$	$R (\Omega) :$	0.24250	0.24250	0.24250				
$M_N = 60.3 \text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} (W)$	21380	20426					2. CORRECTED for Pn	
$P (W)$	19336	18500	18500			18500		
$U (V)$	380					380		
$I (A)$	36.3	34.7	34.7			34.7		
$f (Hz)$	50	50	50			50		
SPEED (1/min)	2914	2918	2918			2930	3. CORRECTED FOR T_{REF} according EN 60034-2	
Torque (Nm)	63.4							
$\eta (\%)$	90.44	90.57	90.5			89.3		
$\cos \varphi (-)$	0.896	0.895				0.9		
$M_{ST} / M_N \diamond M_A / M_N (-)$	1.9	1.9				2.2		
$I_{ST} / I_N \diamond I_A / I_N (-)$	7.9	7.9				7.5	4. CORRECTED FOR T_{REF} according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N (-)$	2.52	2.52				2.3		
SLIP ... (%)	2.87	2.74				2.33		
WINDING - $\Delta \vartheta (K)$	83.9 (30 s)	78.5 (30 s)	EN 60034-2 $T_{ref} = 95 \text{ °C}$			80		
$\vartheta_a (\text{°C})$	4.5	4.5						
FRAME - $\Delta \vartheta (K)$	38.5	36.0					5. MEASURING at 75% Pn	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta (K)$	62.5	58.5						
RESISTANCE - warm (Ω)	0.32270 0.32270 0.32270	0.31735 0.31735 0.31735	$R_{isol} = 0.2 G\Omega$				6. GUARANTED	
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o (V)$	$I_o (A)$	$P_o (W)$	$\cos \varphi_o (-)$	$U_A (V)$	$I_A (A)$	$M_A (N.m.)$	$P_A (W)$	$\cos \varphi_A (-)$
380	9.04843	757	0.127	380	275.4	113.1	86855	0.479
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... 25/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		