

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... : 1LG0166-4AA		SERIAL-No: 28779		spec.: 3				
15 kW	380 V	D	30.1 A	1460 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	132 kg			
WINDING RESISTANCE - cold				$R_{f20} =$	0.544581 Ω			
TERMINALS:		U-V	U-W	V-W	$R_{isol} >$ 0.5 $G\Omega$			
$\vartheta =$	13.5 °C	R (Ω) :	0.35380	0.35380	0.35380			
$M_N =$	98.1 Nm	LOAD TEST						
		1.	2.	3.	4.	5.	6.	1. MEASURING
P_{in} (W)		17016	16696					2. CORRECTED for P _n
P (W)		15278	15000	15000			15000	
U (V)		380					380	
I (A)		30.7	30.1	30.1			30.1	
f (Hz)		50	50	50			50	
SPEED (1/min)		1463	1464	1464			1460	3. CORRECTED FOR T _{REF} according EN 60034-2
Torque (Nm)		99.7						
η (%)		89.79	89.84	89.7			88.7	
cos φ (-)		0.843	0.842				0.85	
$M_{ST} / M_N \diamond M_A / M_N$ (-)		2.5	2.5				2.2	
$I_{ST} / I_N \diamond I_A / I_N$ (-)		8.8	8.8				7.5	4. CORRECTED FOR T _{REF} according CEMEP
$M_{MAX} / M_N \diamond M_K / M_N$ (-)		2.34	2.34				2.3	
SLIP ... (%)		2.47	2.42				2.67	
WINDING - $\Delta \vartheta$ (K)		68.0 (30 s)	66.2 (30 s)	EN 60034-2 T _{ref} = 95°C			80	
ϑ_a (°C)		13	13					
FRAME - $\Delta \vartheta$ (K)		33	32.1					5. MEASURING at 75% P _n
TIME ... (min)		240						
BEARING_D - $\Delta \vartheta$ (K)		40.6	39.5					
RESISTANCE - warm		0.44990	0.44727	... U-V				6. GUARANTED
(Ω)		0.44990	0.44727	... U-W $R_{isol} =$ 0.2 $G\Omega$				
		0.44990	0.44727	... V-W				
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
U ₀ (V)	I ₀ (A)	P ₀ (W)	cos φ_0 (-)	U _A (V)	I _A (A)	M _A (N.m.)	P _A (W)	cos φ_A (-)
380	13.0973	737	0.085	380	263.7	244.9	92180	0.531
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... 11/11/2008		PAGE... 1 / 6		SIGNATURE LAZ		