

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... : 1LG0280-4AA		SERIAL-No: 18444		spec.: 3				
75 kW	380 V	D	140 A	1480 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	553 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.071019 \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 26 \text{ }^{\circ}\text{C}$	$R (\Omega) :$	0.04846	0.04846	0.04846				
$M_N = 484.0 \text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \text{ (W)}$	82030	80455					2. CORRECTED for P _n	
$P \text{ (W)}$	76443	75000	75000			75000		
$U \text{ (V)}$	380					380		
$I \text{ (A)}$	142.2	139.5	139.5			140		
$f \text{ (Hz)}$	50	50	50			50		
SPEED (1/min)	1478	1478	1478			1480	3. CORRECTED FOR T _{REF} according EN 60034-2	
Torque (Nm)	493.9							
$\eta \text{ (%)}$	93.19	93.22	93.2			92.7		
$\cos \varphi \text{ (-)}$	0.876	0.876				0.87		
$M_{ST} / M_N \diamond M_A / M_N \text{ (-)}$	2.2	2.2				2.2		
$I_{ST} / I_N \diamond I_A / I_N \text{ (-)}$	6.4	6.4				7.2	4. CORRECTED FOR T _{REF} according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N \text{ (-)}$	2.69	2.69				2.3		
SLIP ... (%)	1.47	1.44				1.33		
WINDING - $\Delta \vartheta \text{ (K)}$	69.3 (90 s)	67.4 (90 s)	EN 60034-2 T _{ref} = 95°C			80		
$\vartheta_a \text{ (}^{\circ}\text{C)}$	31	31						
FRAME - $\Delta \vartheta \text{ (K)}$	31	30.1					5. MEASURING at 75% P _n	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \text{ (K)}$	37	36.0						
RESISTANCE - warm	0.06226	0.06190	... U-V				6. GUARANTED	
(Ω)	0.06226	0.06190	... U-W $R_{isol} = 0.2 G\Omega$					
	0.06226	0.06190	... V-W					
NO-LOAD TEST				LOCKED ROTOR TEST				
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR	VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
$U_o \text{ (V)}$	$I_o \text{ (A)}$	$P_o \text{ (W)}$	$\cos \varphi_o \text{ (-)}$	$U_A \text{ (V)}$	$I_A \text{ (A)}$	$M_A \text{ (N.m.)}$	$P_A \text{ (W)}$	$\cos \varphi_A \text{ (-)}$
380	40.607	2282	0.085	380	898.4	1074.2	253361	0.429
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... 11/5/2009		PAGE... 1 / 6		SIGNATURE LAZ		