

Producer: <b>Siemens Standard Motors Ltd.</b>								
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... : <b>1LG0220-4AA</b>		SERIAL-No: <b>26274</b>		spec.: 3				
37 kW	380 V	D	69.8 A	1475 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	285 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.184295 \ \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 18 \ ^\circ\text{C}$	$R (\ \Omega ) :$	0.12190	0.12190	0.12190				
$M_N = 239.6 \ \text{Nm}$	LOAD TEST							
	1.	2.	3.	4.	5.			
$P_{in} \ (W)$	41080	40134						
$P \ (W)$	37851	37000	37000		37000			
$U \ (V)$	380				380			
$I \ (A)$	71.1	69.5	69.5		69.8			
$f \ (Hz)$	50	50	50		50			
SPEED (1/min)	1474	1475	1475		1475			
Torque (Nm)	245.2							
$\eta \ (\%)$	92.14	92.19	92.1		91.2			
$\cos \varphi \ (-)$	0.878	0.878			0.87			
$M_{ST} / M_N \ \diamond \ M_A / M_N \ (-)$	2.0	2.0			2.2			
$I_{ST} / I_N \ \diamond \ I_A / I_N \ (-)$	6.9	6.9			7.2			
$M_{MAX} / M_N \ \diamond \ M_K / M_N \ (-)$	2.48	2.48			2.3			
SLIP ... (%)	1.73	1.69			1.67			
WINDING - $\Delta \vartheta \ (K)$	69.8 (30 s)	67.4 (30 s)	EN 60034-2 Tref = 95°C		80			
$\vartheta_a \ (^\circ\text{C})$	19	19						
FRAME - $\Delta \vartheta \ (K)$	31	30.0						
TIME ... (min)	300							
BEARING_D - $\Delta \vartheta \ (K)$	44	42.5						
RESISTANCE - warm ( $\Omega$ )	0.15600	0.15488	... U-V	$R_{isol} = 0.2 \ G\Omega$				
	0.15600	0.15488	... U-W					
	0.15600	0.15488	... 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	21.2419	1267	0.091	380	482.2	471.4	138979	0.438
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... 4/11/2008		PAGE... 1 / 6		SIGNATURE LAZ		