

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... : 1LG0280-6AB		SERIAL-No: 59		spec.: 3				
45 kW	380 V	D	86 A	980 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	492 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.149700 \ \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 20 \ ^\circ\text{C}$	$R (\ \Omega) :$	0.09980	0.09980	0.09980				
$M_N = 438.5 \ \text{Nm}$	LOAD TEST							
	1.	2.	3.	4.	5.			
$P_{in} \ (W)$	48160	48904						
$P \ (W)$	44332	45000	45000		45000			
$U \ (V)$	380				380			
$I \ (A)$	85.6	86.8	86.8		86			
$f \ (Hz)$	50	50	50		50			
SPEED $(1/min)$	984	984	984		980			
Torque (Nm)	430.3							
$\eta \ (\%)$	92.05	92.02	92.0		91.4			
$\cos \varphi \ (-)$	0.855	0.856			0.86			
$M_{ST} / M_N \ \diamond \ M_A / M_N \ (-)$	2.2	2.2			2.1			
$I_{ST} / I_N \ \diamond \ I_A / I_N \ (-)$	7.6	7.6			7.0			
$M_{MAX} / M_N \ \diamond \ M_K / M_N \ (-)$	2.55	2.55			2.0			
SLIP ... $(\%)$	1.60	1.62			2.00			
WINDING - $\Delta \vartheta \ (K)$	69.1 (30 s)	70.6 (30 s)	EN 60034-2 Tref = 95°C		80			
$\vartheta_a \ (^\circ\text{C})$	24	24						
FRAME - $\Delta \vartheta \ (K)$	27	27.6						
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \ (K)$	35	35.8						
RESISTANCE - warm $(\ \Omega)$	0.12840 0.12840 0.12840	0.12901 0.12901 0.12901	$R_{isol} = 0.2 \ G\Omega$					
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	31.2597	1627	0.079	380	655.2	959.1	193420	0.449
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... 30/4/2009		PAGE... 1 / 6		SIGNATURE LAZ		