

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... : 1LG0316-4AB		SERIAL-No: 15134 spec.: 3	
160 kW	380 V	D	287 A
S1	IP55	Isol. F	40 °C
		1480 /min	50 Hz
		IM B3	1120 kg
WINDING RESISTANCE - cold			$R_{f20} = 0.018865 \Omega$
TERMINALS: U-V U-W V-W			$R_{isol} > 0.5 G\Omega$
$\vartheta = 22.5 \text{ °C}$	$R (\Omega) : 0.01270$	0.01270	0.01270
$M_N = 1032.4 \text{ Nm}$	LOAD TEST		
	1.	2.	3.
			4.
			5.
			6.
$P_{in} (W)$	172200	169098	
$P (W)$	162933	160000	160000
$U (V)$	380		380
$I (A)$	293.2	287.9	287
$f (Hz)$	50	50	50
SPEED (1/min)	1483.5	1484	1480
Torque (Nm)	1048.9		
$\eta (\%)$	94.62	94.62	93.8
$\cos \varphi (-)$	0.892	0.892	0.89
$M_{ST} / M_N \diamond M_A / M_N (-)$	2.0	2.0	2.1
$I_{ST} / I_N \diamond I_A / I_N (-)$	6.1	6.1	6.9
$M_{MAX} / M_N \diamond M_K / M_N (-)$	2.13	2.13	2.2
SLIP ... (%)	1.10	1.08	1.33
WINDING - $\Delta \vartheta (K)$	77.5 (90 s)	75.5 (90 s)	80
		EN 60034-2 Tref = 95°C	
$\vartheta_a (°C)$	22	22	
FRAME - $\Delta \vartheta (K)$	35	34.1	
TIME ... (min)	270		
BEARING_D - $\Delta \vartheta (K)$	33	32.1	
RESISTANCE - warm	0.01650	0.01640	...
(Ω)	0.01650	0.01640	...
	0.01650	0.01640	...
			$R_{isol} = 0.2 G\Omega$
NO-LOAD TEST		LOCKED ROTOR TEST	
VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR
$U_o (V)$	$I_o (A)$	$P_o (W)$	$\cos \varphi_o (-)$
380	76.1254	4583	0.091
VOLTAGE	CURRENT	TORQUE	POWER INPUT
$U_A (V)$	$I_A (A)$	$M_A (N.m.)$	$P_A (W)$
380	1756.3	2035.2	422583
			$\cos \varphi_A (-)$
			0.366
COIL TEST		HIGH-SPEED TEST	
130% U_N - 3 min.		120% n_{MAX} - 2 min.	
HIGH POTENCIAL TEST		2500 V - 1 min.	
TESTS CONFORM to the ... EN 60034			
NOTE			order:
A&D SD MF QM	DATE... 12/5/2009	PAGE... 1 / 6	SIGNATURE LAZ