

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>1LG0090-4AA</b>	SERIAL-No: <b>5382</b>	spec.: <b>3</b>
<b>1.1 kW</b>	<b>380 V</b>	<b>Y</b>
<b>2.89 A</b>	<b>1390 /min</b>	<b>50 Hz</b>
<b>S1</b>	<b>IP55</b>	<b>Isol. F</b>
<b>40 °C</b>	<b>IM B3</b>	<b>21 kg</b>

WINDING RESISTANCE - cold						R <sub>f20</sub> =	9.520728	Ω
TERMINALS:		U-V	U-W	V-W		R <sub>isol</sub> >	0.5	GΩ
θ =	-1.5 °C	R (Ω) :	5.81200	5.81200	5.81200			

M <sub>N</sub> = 7.6 Nm	LOAD TEST						1. MEASURING
	1.	2.	3.	4.	5.	6.	
P <sub>in</sub> ( W )	1542	1434					2. CORRECTED for P <sub>n</sub>
P ( W )	1180	1100	1100			1100	
U ( V )	380					380	
I ( A )	3.0	2.8	2.8			2.89	
f ( Hz )	50	50	50			50	
SPEED (1/min)	1400	1407	1407			1390	3. CORRECTED FOR T <sub>REF</sub> according EN 60034-2
Torque ( Nm )	8.1						
η ( % )	76.54	76.73	76.4			75	
cos φ ( - )	0.784	0.782				0.77	
M <sub>ST</sub> / M <sub>N</sub> ♦ M <sub>A</sub> / M <sub>N</sub> ( - )	2.7	2.7				2.3	
I <sub>ST</sub> / I <sub>N</sub> ♦ I <sub>A</sub> / I <sub>N</sub> ( - )	5.4	5.4				6.0	4. CORRECTED FOR T <sub>REF</sub> according CEMEP
M <sub>MAX</sub> / M <sub>N</sub> ♦ M <sub>K</sub> / M <sub>N</sub> ( - )	2.78	2.78				2.3	
SLIP ... ( % )	6.67	6.21				7.33	
WINDING - Δθ ( K )	79.6 ( 30 s )	71.7 ( 30 s )	EN 60034-2 T <sub>ref</sub> = 95°C			80	
θ <sub>a</sub> ( °C )	0.5	0.5					
FRAME - Δθ ( K )	46	41.4					5. MEASURING at 75% P <sub>n</sub>
TIME ... ( min )	180						
BEARING_D - Δθ ( K )	38.5	34.7					
RESISTANCE - warm	7.84400	7.64658	... U-V R <sub>isol</sub> = 0.2 GΩ ... U-W ... V-W				6. GUARANTED
( Ω )	7.84400	7.64658					
	7.84400	7.64658					

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 )	$\cos \varphi_0$ ( - )	$U_A$ ( V )	$I_A$ ( A )	$M_A$ ( N.m. )	$P_A$ ( W )	$\cos \varphi_A$ ( - )
<b>380</b>	<b>2.05055</b>	<b>209</b>	<b>0.155</b>	<b>380</b>	<b>15.5</b>	<b>20.1</b>	<b>7613</b>	<b>0.747</b>

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... 12/1/2009
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