

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... : **1LG0280-2AB** SERIAL-No: **123** spec.: 3
75 kW 380 V D 135 A 2970 /min 50 Hz
S1 IP55 Isol. F 40 °C IM B3 504 kg

WINDING RESISTANCE - cold $R_{f20} = 0.084525 \Omega$
TERMINALS: U-W U-W V-W $R_{isol} > 0.5 G\Omega$
 $\vartheta = 10 \text{ }^{\circ}\text{C}$ R (Ω) : 0.05414 0.05414 0.05414

 $M_N = 241.2 \text{ Nm}$

LOAD TEST

1. MEASURING

	1.	2.	3.	4.	5.	6.
P_{in} (W)	82440	81064				
P (W)	76258	75000	75000			75000

U (V)	380					380
I (A)	140.4	138.1	138.1			135

2. CORRECTED for Pn

f (Hz)	50	50	50			50
SPEED (1/min)	2966	2967	2967			2970
Torque (Nm)	245.5					

3. CORRECTED FOR T_{REF}
according EN 60034-2

η (%)	92.50	92.52	92.5			92.7
$\cos \varphi$ (-)	0.892	0.892				0.9

$M_{ST} / M_N \diamond M_A / M_N$ (-)	2.2	2.2				2.0
$I_{ST} / I_N \diamond I_A / I_N$ (-)	7.7	7.7				7.5

$M_{MAX} / M_N \diamond M_K / M_N$ (-)	2.74	2.74				2.3
SLIP ... (%)	1.13	1.11				1.00

4. CORRECTED FOR T_{REF}
according CEMEP

WINDING - $\Delta \vartheta$ (K)	72.4 (90 s)	70.6 (90 s)	EN 60034-2 $T_{ref} = 95^{\circ}\text{C}$			80
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ϑ_a ($^{\circ}\text{C}$)	21	21				
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FRAME - $\Delta \vartheta$ (K)	50	48.8				
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TIME ... (min)	270					
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5. MEASURING at 75% Pn

BEARING_D - $\Delta \vartheta$ (K)	53	51.7				
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RESISTANCE - warm (Ω)	0.07256	0.07217	... U-V			
	0.07256	0.07217	... U-W	$R_{isol} = 0.2 G\Omega$		
	0.07256	0.07217	... V-W			

6. GUARANTEED

NO-LOAD TEST

VOLTAGE	CURRENT	POWER INPUT	POWER FACTOR
U_0 (V)	I_0 (A)	P_0 (W)	$\cos \varphi_0$ (-)
380	33.3823	2848	0.130

LOCKED ROTOR TEST

VOLTAGE	CURRENT	TORQUE	POWER INPUT	POWER FACTOR
U_A (V)	I_A (A)	M_A (N.m.)	P_A (W)	$\cos \varphi_A$ (-)
380	1035.7	525.0	272706	0.400

COIL TEST

130% U_N - 3 min.

HIGH-SPEED TEST

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

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