Test Report

Date of issue: 4.6.2014

Serial No.: 075033774004001

Type: M3KP 280SMB 8 IMB3/IM1001
Product Code: 3GKP284220-ADG
Protection type: Ex de IIB T4 Gb
Cert. No.: LCIE 11 ATEX 3089X / IECEx LCI 04.0006X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	45,0	741	89	0,78	S1
Insul.cl.F	690	Y	50	45,0	741	52	0,78	S1
IP55	415	D	50	45,0	742	90	0,75	S1

Eff class IE2

50Hz : IE2 - 93,2(100%) - 93,2(75%) - 92,2(50%)

Resistance
Line — Ambient: 23,0 ºC

U_1 - V_1	0,08225	Ω
U_1 - W_1	0,08260	Ω
V_1 - W_1	0,08235	Ω

Insulation resistance at 23 ºC
R > 2000 Mohm 1000 V

Overload

Voltage	130 %	180s
Torque	160 %	15s
Speed	120 %	120s

High-voltage test winding 2400 V 60 s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400,6	D	50	40,5	1,15		750	0,04	
Locked rotor test		90,9	D	50	90,2	3,82		0	0,27	
Thermal test (100% load)	579,9	400	D	50	89,6	48,23	45,00	741	0,78	93,30
Partial load points:										
~75% load	433,5	400	D	50	72,1	36,12	33,75	744	0,72	93,40
~50% load	288,4	400	D	50	57,1	24,23	22,50	745	0,61	92,90
~25% load	143,6	400	D	50	45,6	12,56	11,25	748	0,40	89,60

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		59,4	1
Frame :		34,5	2
Bearing D-end :		36,3	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.
PLL determined from residual loss.

On behalf of customer

On behalf of manufacturer Date of test 3.12.2011

Tested by ABB Shanghai Motors , LV Motors, Shanghai,P.R.China

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