



| Test Report  |             |           |       | Date of issue: 4.6.2014                            |         |                |          |  |       |      |    |
|--|-------------|-----------|-------|--|---------|----------------|----------|--|-------|------|----|
|  |             |           |       | Serial No.: 3GF11094413                            |         |                |          |  |       |      |    |
|  |             |           |       | Type: M3JP 250SMB 8 IMB3/IM1001                    |         |                |          |  |       |      |    |
|  |             |           |       | Product Code: 3GJP254220-ADG                       |         |                |          |  |       |      |    |
|  |             |           |       | Protection type: Ex d IIB T4 Gb                    |         |                |          |  |       |      |    |
|  |             |           |       | Cert. No.: LCIE 10 ATEX 3063X / IECEx LCI 04.0012X |         |                |          |  |       |      |    |
| Rating:  |             |           |       | V  | Hz      | kW             | r/min    | A  | cos φ | Duty |    |
| 3-Motor  |             |           |       | 400  | D       | 50             | 37       | 737  | 74,2  | 0,78 | S1 |
| Insul.cl.F   |             |           |       | 415  | D       | 50             | 37       | 738  | 72,2  | 0,77 | S1 |
| IP55   |             |           |       | 690  | Y       | 50             | 37       | 737  | 43    | 0,78 | S1 |
| 400 V 50Hz : 92.2(100%) - 91.7(75%) - 91.0(50%)  |             |           |       |  |         |                |          |  |       |      |    |
| Resistance   |             |           |       | Insulation resistance at 35,0 °C                   |         |                |          | Overload   |       |      |    |
| Line   |             |           |       | 12000 MΩ   |         |                |          | 1000 V   |       |      |    |
| Ambient: 22,5 °C   |             |           |       |  |         |                |          | Torque 160 % 15s                                   |       |      |    |
| U <sub>1</sub> - V <sub>1</sub>  |             |           |       | 0,12991 Ω  |         |                |          |  |       |      |    |
| U <sub>1</sub> - W <sub>1</sub>  |             |           |       | 0,12985 Ω  |         |                |          |  |       |      |    |
| V <sub>1</sub> - W <sub>1</sub>  |             |           |       | 0,12993 Ω  |         |                |          |  |       |      |    |
|  |             |           |       | High-voltage test winding                          |         |                |          | 2900 V 1 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   |             | 400,1     | D 50  | 33,6   | 0,96    |                | 750      | 0,04   |       |      |    |
| Locked rotor test  |             | 91,0      | D 50  | 74,3   | 3,34    |                | 0        | 0,29   |       |      |    |
| Thermal test (100% load)   | 479,4       | 400,1     | D 50  | 73,3   | 40,0    | 37,0           | 737      | 0,79   | 92,5  |      |    |
| Partial load points:   |             |           |       |  |         |                |          |  |       |      |    |
| ~75% load  | 359,4       | 400,1     | D 50  | 58,7   | 29,8    | 27,8           | 741      | 0,73   | 93,1  |      |    |
| ~50% load  | 238,3       | 400,1     | D 50  | 46,1   | 20,0    | 18,5           | 744      | 0,63   | 92,7  |      |    |
| ~25% load  | 119,8       | 400,1     | D 50  | 36,6   | 10,4    | 9,25           | 747      | 0,41   | 89,4  |      |    |
| Temperature rise at rated load.  |             |           |       | °C   | K       | Method         |          | Measurement method                                 |       |      |    |
| Stator winding :   |             |           |       | 56,3   | 1       | 1              |          | 1 Resistance                                       |       |      |    |
| Frame :  |             |           |       | 30,5   | 2       | 2              |          | 2 Thermometer                                      |       |      |    |
| Bearing D-end :  |             |           |       | 43,6   | 2       | 2              |          | 3 Thermocouples                                    |       |      |    |
| Ambient Temperature :  |             |           |       | 25,0   | 2       |                |          |  |       |      |    |
| Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.<br>PLL determined from residual loss. |             |           |       |  |         |                |          |  |       |      |    |
| On behalf of customer  |             |           |       |  |         |                |          |  |       |      |    |
| On behalf of manufacturer  |             |           |       | Date of test 17.3.2012                             |         |                |          |  |       |      |    |
| Tested by ABB Oy, Motors and Generators, Vaasa, Finland  |             |           |       |  |         |                |          | Telephone +358 10 2211<br>Telefax +358 10 22 47372 |       |      |    |

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