



| Test Report  |             |           |       | Date of issue: 4.6.2014                               |         |                |          |                                  |       |                  |    |
|--|-------------|-----------|-------|---|---------|----------------|----------|----------------------------------|-------|------------------|----|
|  |             |           |       | Serial No.: 0929-010207203                            |         |                |          |                                  |       |                  |    |
|  |             |           |       | Type: M3JP 200MLC 4                                   |         |                |          |                                  |       |                  |    |
|  |             |           |       | Product Code: 3GJP202430-G                            |         |                |          |                                  |       |                  |    |
|  |             |           |       | Protection type: Ex d IIB T4 Gb                       |         |                |          |                                  |       |                  |    |
|  |             |           |       | Cert. No.: LCIE 10 ATEX 3061X /<br>IECEx LCI 04.0011X |         |                |          |                                  |       |                  |    |
| Rating:  |             |           |       | V   | Hz      | kW             | r/min    | A                                | cos φ | Duty             |    |
| 3~Motor  |             |           |       | 400   | D       | 50             | 37       | 1475                             | 70    | 0,82             | S1 |
| Insul.cl.F   |             |           |       | 415   | D       | 50             | 37       | 1477                             | 68,3  | 0,81             | S1 |
| IP56   |             |           |       | 690   | Y       | 50             | 37       | 1475                             | 40,6  | 0,82             | S1 |
| Eff class IE2  |             |           |       | 400 V 50Hz : IE2 - 93.0(100%) - 93.1(75%) - 92.3(50%) |         |                |          |                                  |       |                  |    |
| Resistance Line  |             |           |       | Ambient: 24,5 °C                                      |         |                |          | Insulation resistance at 49,5 °C |       | Overload         |    |
| U <sub>1</sub> - V <sub>1</sub>  |             |           |       | 0,11791 Ω   |         |                |          | 4000 MΩ                          |       | 1000 V           |    |
| U <sub>1</sub> - W <sub>1</sub>  |             |           |       | 0,11788 Ω   |         |                |          |                                  |       | Torque 160% 15s  |    |
| V <sub>1</sub> - W <sub>1</sub>  |             |           |       | 0,11786 Ω   |         |                |          |                                  |       | 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   |             | 400,0 D   | 50    | 29,2  | 1,11    |                | 1500     | 0,06                             |       |                  |    |
| Locked rotor test  |             | 81,5 D    | 50    | 70,0  | 3,66    |                | 0        | 0,37                             |       |                  |    |
| Thermal test (100% load)   | 239,6       | 400,1 D   | 50    | 70,5  | 39,9    | 37,0           | 1480     | 0,82                             | 92,8  |                  |    |
| Partial load points:   |             |           |       |   |         |                |          |                                  |       |                  |    |
| ~75% load  | 179,7       | 400,2 D   | 50    | 56,0  | 29,9    | 27,8           | 1484     | 0,77                             | 92,9  |                  |    |
| ~50% load  | 119,8       | 400,1 D   | 50    | 43,2  | 20,1    | 18,5           | 1489     | 0,67                             | 92,1  |                  |    |
| ~25% load  | 59,8        | 400,1 D   | 50    | 33,4  | 10,5    | 9,25           | 1494     | 0,45                             | 88,1  |                  |    |
| Temperature rise at rated load.  |             |           |       | [°C]  | [K]     | Method         |          | Measurement method               |       |                  |    |
| Stator winding :   |             |           |       |   | 69,2    | 1              |          | 1 Resistance                     |       |                  |    |
| Frame :  |             |           |       |   | 41,7    | 2              |          | 2 Thermometer                    |       |                  |    |
| Bearing N-end :  |             |           |       |   | 49,0    | 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  |         |                |          | 26.8.2009                        |       |                  |    |
| Tested by ABB Oy, Motors and Generators, Vaasa, Finland  |             |           |       |   |         |                |          | Telephone                        |       | +358 10 2211     |    |
|  |             |           |       |   |         |                |          | Telefax                          |       | +358 10 22 47372 |    |

Computer print-out valid without signature.