



|   |             |                            |                       |                          |          |                |              |                 |       |  |  |
|---|-------------|----------------------------|-----------------------|--------------------------|----------|----------------|--------------|-----------------|-------|--|--|
| <b>Test Report</b>  |             |                            |                       | Cert. No.                |          |                |              |                 |       |  |  |
|   |             |                            |                       | M-file ref.:             |          |                |              |                 |       |  |  |
| Customer:   |             |                            |                       | Date of Issue 01/03/2010 |          |                |              |                 |       |  |  |
| Customer ref.:  |             |                            |                       | Type: M2AA 132 S 4       |          |                |              |                 |       |  |  |
|   |             |                            |                       | Serial no.:              |          |                |              |                 |       |  |  |
|   |             |                            |                       | Order no.:               |          |                |              |                 |       |  |  |
| Rating:   |             | Product Code 3GAA132001-DE |                       |                          |          |                |              |                 |       |  |  |
| 3-Motor IE1   |             |                            |                       |                          |          |                |              |                 |       |  |  |
|   |             | V                          | Hz                    | kW                       | r/min    | A              | cos φ        | IA/IN           | TE[s] |  |  |
| Insul.cl.F  |             | 690                        | Y 50                  | 5,5                      | 1450     | 7,00           | 0,75         |                 |       |  |  |
| S1  |             | 400                        | D 50                  | 5,5                      | 1450     | 12,20          | 0,75         |                 |       |  |  |
| IP55  |             | 415                        | D 50                  | 5,5                      | 1455     | 12,40          | 0,72         |                 |       |  |  |
| 42 kg   |             |                            |                       |                          |          |                |              |                 |       |  |  |
| Resistance  |             |                            | Insulation resistance |                          |          | Overload test  |              |                 |       |  |  |
| Line  | Pole        | Ambient 15 °C              |                       | R > 140 Mohm             |          |                |              |                 |       |  |  |
|   | 4           | 1,576 Ω                    |                       |                          |          |                |              |                 |       |  |  |
|   |             |                            | High-voltage test     |                          |          |                |              |                 |       |  |  |
|   |             |                            | 2000 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   |             | 400                        | D 50                  | 6,80                     | 0,31     |                | 1500         |                 |       |  |  |
| Rated load (cold)   | 35,95       | 400                        | D 50                  | 12,10                    | 6,40     | 5,50           | 1461         |                 |       |  |  |
| Rated load (stab.)  | 36,17       | 400                        | D 50                  | 12,20                    | 6,50     | 5,50           | 1452         | 0,75            | 86,5  |  |  |
| 149% rated load   | 55,07       | 400                        | D 50                  | 17,50                    | 9,90     | 8,20           | 1422         | 0,81            | 83,1  |  |  |
| Shortcircuit  | 24,90       | 400                        | Y 50                  | 22,69                    |          |                | 0            | 0,51            |       |  |  |
| Temperature rise at amb.temp. 17 °C                             |             | Temperature                |                       | Measurement method       |          |                |              |                 |       |  |  |
| Stator winding  | Pole        | (K)                        | Method                | Pole                     | °C       | Method         | 1 Resistance |                 |       |  |  |
|   | 4           | 73                         | 1                     | Ambient                  | 4        | 17             | 3            | 2 Thermometer   |       |  |  |
|   |             |                            |                       | Frame                    | 4        | 38             | 3            | 3 Thermocouples |       |  |  |
| Manufactured and tested in accordance with rules of IEC 34-2-1. |             |                            |                       |                          |          |                |              |                 |       |  |  |
| On behalf of customer   |             |                            |                       |                          |          |                |              |                 |       |  |  |
| On behalf of manufacturer                                       |             |                            | Date of test          |                          | 3.4.2008 |                |              |                 |       |  |  |
| Tested by Asea Brown Boveri, S.A. /Sabadell                     |             |                            |                       |                          |          |                |              |                 |       |  |  |

Computer print-out valid without signature

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