



| Type Test Report | | | | Date of issue: 6.6.2014 | | | | | | | |
|--|-------------|-----------|-------|--|---------|----------------|-----------|----------------------------------|-----------------|--------------------|--|
| | | | | Serial No.: 75035421014001A | | | | | | | |
| | | | | Type: M3JP 280SMC 2 IMB3/IM1001 | | | | | | | |
| | | | | Product Code: 3GJP281230-ADG | | | | | | | |
| | | | | Protection type: Ex d 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 | 110,0 | 2978 | 185 | 0,9 | S1 | |
| Insul.cl.F | | | | 690 | Y 50 | 110,0 | 2978 | 107 | 0,9 | S1 | |
| IP55 | | | | 415 | D 50 | 110,0 | 2980 | 178 | 0,9 | S1 | |
| Eff class IE2 | | | | 50Hz : IE2 - 95,1(100%) - 95(75%) - 94,2(50%) | | | | | | | |
| Resistance Line | | | | Ambient: 16,0 °C | | | | Insulation resistance at 16 °C | | Overload | |
| U ₁ - V ₁ | | | | 0,01854 Ω | | | | R > 2000 Mohm 1000 V | | Voltage 130 % 180s | |
| U ₁ - W ₁ | | | | 0,01854 Ω | | | | | | Torque 160 % 15s | |
| V ₁ - W ₁ | | | | 0,01856 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 | | 400,4 D | 50 | 43,7 | 2,48 | | 3000 | 0,08 | | | |
| Locked rotor test | | 63,3 D | 50 | 186,8 | 6,19 | | 0 | 0,3 | | | |
| Thermal test (100% load) | 353,3 | 400 D | 50 | 187,2 | 116,12 | 110,00 | 2973 | 0,90 | 94,70 | | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | 264,5 | 400 D | 50 | 142,5 | 87,08 | 82,50 | 2979 | 0,88 | 94,70 | | |
| ~50% load | 175,9 | 400 D | 50 | 101,4 | 58,43 | 55,00 | 2986 | 0,83 | 94,10 | | |
| ~25% load | 87,7 | 400 D | 50 | 65,2 | 30,24 | 27,50 | 2993 | 0,67 | 90,90 | | |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | | | |
| Stator winding : | | | | | 66,9 | 1 | | 1 Resistance | | | |
| Frame : | | | | | 29,9 | 2 | | 2 Thermometer | | | |
| Bearing D-end : | | | | | 29,9 | 2 | | 3 Thermocouples | | | |
| Rotor : | | | | | | 2 | | | | | |
| Ambient Temperature : | | | | 25 | | 2 | | | | | |
| 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 | | | | 21.12.2011 | | | |
| Tested by ABB Shanghai Motors , LV Motors, Shanghai,P.R.China | | | | | | | Telephone | | +86 21 54723133 | | |
| | | | | | | | Telefax | | +86 21 54725009 | | |

Computer print-out valid without signature.