Date of Issue: 24/11/2017

Serial No.: 0139

Customer: Tag No.:
Order No.:
Type: M3MA 80 MA 2
Product Code: 3GMA081310-xSB
Protection type:
Cert. No.:

Customer ref.:
Rating:

3~Motor
Ins. Class F
IP69K

Eff class IEC IE3
IE3 nominal efficiency 77.8%

Resistance
Line
Ambient: 25 °C

Insulation resistance at 20 °C
R > 2000 Mohm 1000 V

High-voltage test 2400 V 1 s

Test
Torque [Nm]
Line U[V] f[Hz] [A]
Input P1 [W] P2 [W] n[r/min] cos φ h [%] s [%]

No-load test
401.7 Y 50 0.40 66.88 0.24

Thermal test (100% load) 1.9 405.7 Y 50 1.12 698.0 562.8 2896 0.89 80.6 3.44

Partial load points:
~75% load 1.4 403.2 Y 50 0.88 526.5 422.4 2922 0.86 80.3 2.57
~50% load 0.9 403.6 Y 50 0.67 365.5 282.3 2946 0.78 77.1 1.76
~25% load 0.5 403.6 Y 50 0.50 212.5 141.4 2972 0.61 67.1 0.92

Temperature rise at rated load.

Stator winding : 66 1 1 Resistance
Frame : 83 2 2 Thermocouples
Bearing D-end : 78 2 3 Thermometer
Bearing N-end : 82 2
Ambient Temperature : 24 2

Tested according to IEC 60034-2-1:2014
PLL determined from residual loss.

On behalf of customer

Date of test: 23/03/2017

Tested by ABB S.p.A. - HMMG - 20010 Vittuone (MI) Italy

Computer print-out valid without signature.