



| Test Report | | Cert. No. ATEX Cert.No.LCIE 06 ATEX 6089 IECEX Cert. No. IECEX LCI 07.0001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|--|---------------------|----------------------------|-------------|------------|---------------------|----------------------------|----------|-------|-------|---------|------|------|-------|--------------|-----------|-----------|-------------|-------------|-------------|-------|------|----|------|--------|------|---------|----|------|-------|------|------|-------|------|----|------|------|------|-------|----|----|------|------|------|
| Customer: | | Date of Issue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer ref.: | | Type: M3GP 200MLC 2 Protection Ex nA II T3 type: Serial no.: Tag no.: Order no.: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rating: 3~Motor | | Product Code 3GGP 201 430 -_DG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insul.cl. F S1 IP 55 305 kg | | <table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> </tr> </thead> <tbody> <tr> <td>690 Y</td> <td>50</td> <td>37</td> <td>2954</td> <td>37,2</td> <td>0,89</td> </tr> <tr> <td>400 D</td> <td>50</td> <td>37</td> <td>2954</td> <td>64,1</td> <td>0,89</td> </tr> <tr> <td>660 Y</td> <td>50</td> <td>37</td> <td>2946</td> <td>38,6</td> <td>0,90</td> </tr> <tr> <td>380 D</td> <td>50</td> <td>37</td> <td>2946</td> <td>67</td> <td>0,90</td> </tr> <tr> <td>415 D</td> <td>50</td> <td>37</td> <td>2958</td> <td>62,4</td> <td>0,88</td> </tr> <tr> <td>440 D</td> <td>60</td> <td>43</td> <td>3544</td> <td>67,4</td> <td>0,90</td> </tr> </tbody> </table> | | V | Hz | kW | r/min | A | cos φ | 690 Y | 50 | 37 | 2954 | 37,2 | 0,89 | 400 D | 50 | 37 | 2954 | 64,1 | 0,89 | 660 Y | 50 | 37 | 2946 | 38,6 | 0,90 | 380 D | 50 | 37 | 2946 | 67 | 0,90 | 415 D | 50 | 37 | 2958 | 62,4 | 0,88 | 440 D | 60 | 43 | 3544 | 67,4 | 0,90 |
| V | Hz | kW | r/min | A | cos φ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 690 Y | 50 | 37 | 2954 | 37,2 | 0,89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 D | 50 | 37 | 2954 | 64,1 | 0,89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 660 Y | 50 | 37 | 2946 | 38,6 | 0,90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 380 D | 50 | 37 | 2946 | 67 | 0,90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 415 D | 50 | 37 | 2958 | 62,4 | 0,88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 440 D | 60 | 43 | 3544 | 67,4 | 0,90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance U ₁ -V ₁ 0,0919Ω U ₁ -W ₁ 0,0918" V ₁ -W ₁ 0,0919" | | Insulation resistance 3500 MΩ 1000 V 56 °C High-voltage test 2400 V 60 s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Overload test: 1,6 x T _N 15 s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test | | <table border="1"> <thead> <tr> <th>Line U[V]</th> <th>f[Hz]</th> <th>Input I[A]</th> <th>P₁[kW]</th> <th>Output P₂[Kw]</th> <th>η[r/min]</th> <th>cos φ</th> <th>η [%]</th> </tr> </thead> <tbody> <tr> <td>400,1 D</td> <td>50</td> <td>15,9</td> <td>0,929</td> <td></td> <td></td> <td>0,0845</td> <td></td> </tr> <tr> <td>73,4 D</td> <td>50</td> <td>65,1</td> <td>2,90</td> <td></td> <td></td> <td>0,3503</td> <td></td> </tr> <tr> <td>400,1 D</td> <td>50</td> <td>64,7</td> <td>39,58</td> <td>37,0</td> <td>2954</td> <td>0,88</td> <td>93,5</td> </tr> </tbody> </table> | | Line U[V] | f[Hz] | Input I[A] | P ₁ [kW] | Output P ₂ [Kw] | η[r/min] | cos φ | η [%] | 400,1 D | 50 | 15,9 | 0,929 | | | 0,0845 | | 73,4 D | 50 | 65,1 | 2,90 | | | 0,3503 | | 400,1 D | 50 | 64,7 | 39,58 | 37,0 | 2954 | 0,88 | 93,5 | | | | | | | | | | |
| Line U[V] | f[Hz] | Input I[A] | P ₁ [kW] | Output P ₂ [Kw] | η[r/min] | cos φ | η [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400,1 D | 50 | 15,9 | 0,929 | | | 0,0845 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73,4 D | 50 | 65,1 | 2,90 | | | 0,3503 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400,1 D | 50 | 64,7 | 39,58 | 37,0 | 2954 | 0,88 | 93,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature rise at amb.temp. 25 °C Stator winding [K] Method 70,9 1 | | Temperature rise at amb. temp. 25 °C Frame [K] Method 27,7 3 Bearing D-end 44,1 3 Rotor 82,9 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Measurement method 1 Resistance 2 Embedded temp. detector 3 Thermometer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>These tests have been carried out on motor no. 0908-010290845A, 2009-03-26 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| On behalf of customer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| On behalf of manufacturer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tested by ABB Oy Motors/Vaasa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |