

## Motor type NP80NL

IC0041

| Winding<br>N°. | Base speed (rpm) |      |      |      |      |      | P<br>(kW)   | I<br>(A) | T<br>(Nm) | $\eta$<br>(%) | Rarm<br>(Ohm) | Larm<br>(mH) | Select.<br>code |
|----------------|------------------|------|------|------|------|------|-------------|----------|-----------|---------------|---------------|--------------|-----------------|
|                | 150              | 170  | 260  | 280  | 400  | 440  |             |          |           |               |               |              |                 |
| A1             | 3641             |      |      |      |      |      | <b>0,95</b> | 7,7      | 2,4       | 78,1          | 0,70          | 6,14         | 2               |
| A2             | 3194             |      |      |      |      |      | <b>1,13</b> | 9,0      | 3,3       | 80,6          | 0,80          | 7,78         | 2               |
|                |                  | 3675 |      |      |      |      | <b>1,06</b> | 7,5      | 2,7       | 79,6          |               |              |                 |
| A4             | 2566             |      |      |      |      |      | <b>1,03</b> | 8,2      | 3,8       | 79,9          | 1,19          | 11,62        | 2               |
|                |                  | 2938 |      |      |      |      | <b>1,17</b> | 8,2      | 3,8       | 81,0          |               |              |                 |
| A5             |                  | 2676 |      |      |      |      | <b>1,06</b> | 7,4      | 3,7       | 80,2          | 1,44          | 13,82        | 2               |
| A7             | 1978             |      |      |      |      |      | <b>0,81</b> | 6,6      | 3,9       | 78,0          | 1,89          | 18,82        | 2               |
|                |                  |      | 3601 |      |      |      | <b>1,3</b>  | 5,9      | 3,4       | 81,8          |               |              |                 |
| A9             |                  | 1966 |      |      |      |      | <b>0,81</b> | 5,8      | 3,9       | 78,2          | 2,42          | 24,58        | 2               |
|                |                  |      | 3115 |      |      |      | <b>1,28</b> | 5,8      | 3,9       | 82,0          |               |              |                 |
|                |                  |      |      | 3376 |      |      | <b>1,33</b> | 5,6      | 3,7       | 82,3          |               |              |                 |
| B2             | 1499             |      |      |      |      |      | <b>0,62</b> | 5,1      | 3,9       | 75,1          | 3,07          | 31,10        | 2               |
|                |                  |      |      | 2976 |      |      | <b>1,21</b> | 5,1      | 3,9       | 81,7          |               |              |                 |
| B4             |                  | 1535 |      |      |      |      | <b>0,63</b> | 4,6      | 3,9       | 75,4          | 3,84          | 38,40        | 2               |
|                |                  |      | 2454 |      |      |      | <b>1,00</b> | 4,6      | 3,9       | 80,3          |               |              |                 |
|                |                  |      |      | 2659 |      |      | <b>1,08</b> | 4,6      | 3,8       | 80,9          |               |              |                 |
| B6             |                  |      |      |      | 3459 |      | <b>1,85</b> | 5,4      | 5,1       | 83,7          | 4,70          | 46,46        | 2               |
| B9             |                  |      | 1925 |      |      |      | <b>0,80</b> | 3,7      | 3,9       | 78,2          | 6,00          | 59,00        | 2               |
|                |                  |      |      | 2089 |      |      | <b>0,86</b> | 3,7      | 3,9       | 79,1          |               |              |                 |
|                |                  |      |      |      | 3016 |      | <b>1,63</b> | 4,8      | 5,1       | 82,9          |               |              |                 |
|                |                  |      |      |      |      | 3343 | <b>1,81</b> | 4,8      | 5,1       | 83,6          |               |              |                 |
| C2             |                  |      |      |      |      | 3071 | <b>1,63</b> | 4,4      | 5,0       | 82,7          | 7,34          | 69,98        | 2               |
| C5             |                  |      |      |      | 2466 |      | <b>1,30</b> | 3,9      | 5,0       | 80,8          | 9,19          | 86,40        | 2               |
| C8             |                  |      | 1412 |      |      |      | <b>0,56</b> | 2,7      | 3,8       | 74,2          | 10,96         | 104,54       | 2               |
|                |                  |      |      | 1536 |      |      | <b>0,61</b> | 2,7      | 3,8       | 75,3          |               |              |                 |
|                |                  |      |      |      |      | 2475 | <b>1,28</b> | 3,5      | 4,9       | 81,0          |               |              |                 |
| D4             |                  |      |      |      | 1897 |      | <b>1,00</b> | 3,1      | 5,0       | 78,2          | 14,69         | 138,62       | 2               |
|                |                  |      |      |      |      | 2112 | <b>1,11</b> | 3,1      | 5,0       | 79,4          |               |              |                 |
| E4             |                  |      |      |      | 1453 |      | <b>0,76</b> | 2,4      | 5,0       | 74,8          | 23,31         | 221,18       | 2               |
|                |                  |      |      |      |      | 1623 | <b>0,85</b> | 2,4      | 5,0       | 76,3          |               |              |                 |

150 - 260 V : Single-phase fully controlled bridge (ff <= 1,55-1,4)  
 170 - 280 V : Single-phase half controlled bridge (ff <= 1,4)  
 400 - 440 V : Three-phase fully controlled bridge (ff <= 1,05)

## Main features

|                      |                  | NP80NL     |
|----------------------|------------------|------------|
| Field power          | W                | 130        |
| Inertia              | Kgm <sup>2</sup> | 0,017      |
| Max mechanical speed | rpm              | 6500       |
| Weight IC0041        | kg               | 41         |
| DE bearing           | ball             | 6305-2Z-C3 |
| NDE bearing          | ball             | 6204-2Z-C3 |

## Motor type NP80NL

IC06-17-37

| Winding<br>N°. | Base speed (rpm) |      |      |      |      |      | P<br>(kW)   | I<br>(A)    | T<br>(Nm) | $\eta$<br>(%) | Rarm<br>(Ohm) | Larm<br>(mH) | Select.<br>code |      |
|----------------|------------------|------|------|------|------|------|-------------|-------------|-----------|---------------|---------------|--------------|-----------------|------|
|                | 150              | 170  | 260  | 280  | 400  | 440  |             |             |           |               |               |              |                 |      |
| A1             | 2348             |      |      |      |      |      | <b>3,24</b> | 26,1        | 13,1      | 77,9          | 0,70          | 6,14         | 2               |      |
|                |                  | 2709 |      |      |      |      | <b>3,73</b> | 26,1        | 13,1      | 79,8          |               |              |                 |      |
| A2             | 2061             |      |      |      |      |      | <b>3,02</b> | 24,6        | 13,9      | 76,9          | 0,80          | 7,78         | 2               |      |
|                |                  | 2383 |      |      |      |      | <b>3,49</b> | 24,6        | 13,9      | 79,0          |               |              |                 |      |
| A3             |                  | 2113 |      |      |      |      | <b>3,14</b> | 22,4        | 14,1      | 77,5          | 0,98          | 9,60         | 2               |      |
|                |                  |      | 3582 |      |      |      | <b>4,78</b> | 21,1        | 12,7      | 84,1          |               |              |                 |      |
| A4             |                  |      |      | 3502 |      |      | <b>4,66</b> | 19,2        | 12,7      | 83,9          | 1,19          | 11,62        | 2               |      |
| A5             | 1463             |      |      |      |      |      | <b>2,14</b> | 18,4        | 13,9      | 71,4          | 1,44          | 13,82        | 2               |      |
|                |                  |      |      | 2916 |      |      |             | <b>4,02</b> | 18,2      | 13,1          |               |              |                 | 81,9 |
|                |                  |      |      |      | 3172 |      |             | <b>4,31</b> | 17,9      | 12,9          |               |              |                 | 82,8 |
| A7             | 1421             |      |      |      |      |      | <b>2,12</b> | 16,1        | 14,2      | 71,4          | 1,89          | 18,82        | 2               |      |
|                |                  |      |      | 2453 |      |      |             | <b>3,51</b> | 16,1      | 13,6          |               |              |                 | 80,2 |
|                |                  |      |      |      | 2669 |      |             | <b>3,82</b> | 16,1      | 13,6          |               |              |                 | 81,2 |
| A9             |                  |      | 2110 |      |      |      | <b>3,04</b> | 14,2        | 13,7      | 78,4          | 2,42          | 24,58        |                 |      |
|                |                  |      |      |      | 3401 |      | <b>6,36</b> | 18,7        | 17,8      | 82,8          |               |              |                 |      |
| B2             |                  |      |      | 2008 |      |      | <b>2,88</b> | 12,5        | 13,6      | 77,8          | 3,07          | 31,10        | 2               |      |
|                |                  |      |      |      | 2969 |      | <b>5,61</b> | 16,8        | 18,0      | 81,1          |               |              |                 |      |
|                |                  |      |      |      |      | 3318 | <b>6,17</b> | 16,6        | 17,7      | 82,5          |               |              |                 |      |
| B4             |                  |      |      |      | 2619 |      | <b>4,99</b> | 15,3        | 18,1      | 79,3          | 3,84          | 34,4         | 2               |      |
|                |                  |      |      |      |      | 2934 | <b>5,51</b> | 15,0        | 17,9      | 80,9          |               |              |                 |      |
| B6             |                  |      | 1442 |      |      |      | <b>2,04</b> | 10,2        | 13,5      | 72,3          | 4,70          | 46,46        | 2               |      |
|                |                  |      |      | 1579 |      |      | <b>2,24</b> | 10,2        | 13,5      | 73,9          |               |              |                 |      |
|                |                  |      |      |      |      | 2616 | <b>4,97</b> | 13,8        | 18,1      | 79,2          |               |              |                 |      |
| B9             |                  |      |      |      | 2005 |      | <b>3,81</b> | 12,2        | 18,1      | 75,4          | 6,00          | 59,00        | 2               |      |
| C2             |                  |      |      |      |      | 2045 | <b>3,76</b> | 10,9        | 17,5      | 75,3          | 7,34          | 69,98        | 2               |      |
| C8             |                  |      |      |      | 1404 |      | <b>2,57</b> | 8,9         | 17,4      | 68,6          | 10,96         | 105,54       | 2               |      |
|                |                  |      |      |      |      | 1591 | <b>2,92</b> | 8,9         | 17,5      | 71,0          |               |              |                 |      |

150 - 260 V : Single-phase fully controlled bridge (ff <= 1,55-1,4)  
 170 - 280 V : Single-phase half controlled bridge (ff <= 1,4)  
 400 - 440 V : Three-phase fully controlled bridge (ff <= 1,05)

## Main features

|                      |                  | NP80NL     |
|----------------------|------------------|------------|
| Field power          | W                | 380        |
| Inertia              | Kgm <sup>2</sup> | 0,017      |
| Max mechanical speed | rpm              | 6500       |
| Weight IC06          | kg               | 46         |
| Weight IC17-IC37     | kg               | 41         |
| DE bearing           | ball             | 6305-2Z-C3 |
| NDE bearing          | ball             | 6204-2Z-C3 |

## Blower data (3x400 V – 50 Hz)

|                 |                     | IC06 | IC17-37 |
|-----------------|---------------------|------|---------|
| Blower ac motor | type                | 50   | --      |
| Power           | kW                  | 0,08 | --      |
| Current         | A                   | 0,4  | --      |
| Poles           | n°.                 | 2    | --      |
| Air flow rate   | m <sup>3</sup> /sec | --   | 0,043   |
| Static pressure | Pa                  | --   | 300     |