



**SIMOTICS GP - 80 M - IM B14 - 2p**

|                  |                 |           |
|------------------|-----------------|-----------|
| Client order no. | Item-No.        | Offer no. |
| Order no.        | Consignment no. | Project   |

|         |
|---------|
| Remarks |
|---------|

## Safe Area

| U   | Δ / Y | f    | P    | P    | I    | n       | M    | η <sup>3)</sup> |      |      | cosφ <sup>3)</sup> |      |      | I <sub>A</sub> /I <sub>N</sub> | M <sub>A</sub> /M <sub>N</sub> | M <sub>K</sub> /M <sub>N</sub> | IE-CL |
|-----|-------|------|------|------|------|---------|------|-----------------|------|------|--------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
| [V] |       | [Hz] | [kW] | [hp] | [A]  | [1/min] | [Nm] | 4/4             | 3/4  | 2/4  | 4/4                | 3/4  | 2/4  | I <sub>I</sub> /I <sub>N</sub> | T <sub>I</sub> /T <sub>N</sub> | T <sub>B</sub> /T <sub>N</sub> |       |
| 230 | Δ     | 50   | 0.75 | -/-  | 2.70 | 2850    | 2.5  | 80.7            | 82.2 | 81.9 | 0.86               | 0.82 | 0.73 | 6.2                            | 2.6                            | 3.0                            | IE3   |
| 400 | Y     | 50   | 0.75 | -/-  | 1.56 | 2850    | 2.5  | 80.7            | 82.2 | 81.9 | 0.86               | 0.82 | 0.73 | 6.2                            | 2.6                            | 3.0                            | IE3   |
| 460 | Y     | 60   | 0.86 | -/-  | 1.63 | 3450    | 2.4  | 77.0            | 78.0 | 77.2 | 0.86               | 0.82 | 0.73 | 6.4                            | 2.6                            | 3.1                            | IE3   |
| 460 | Y     | 60   | 0.75 | -/-  | 1.45 | 3480    | 2.0  | 77.0            | 77.2 | 75.7 | 0.84               | 0.79 | 0.70 | 7.1                            | 3.0                            | 3.6                            | IE3   |

IM B14 / IM 3601

ES 80 M

11 km

IP55

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EN 60

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ISO

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1

Environmental conditions : -20 °C - +40 °C / 1.000 m

Locked rotor time (hot / cold) : 21.1 s | 27.7 s

## Mechanical data

|                                                                                     |                                 |                                 |                            |                                                   |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|---------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 60.0 / 71.0 dB(A) <sup>2)</sup> | 64.0 / 75.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                                |
| Moment of inertia                                                                   | 0.0011 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                                 |
| Bearing DE   NDE                                                                    | 6004 2Z C3                      | 6004 2Z C3                      | Insulation                 | 155(F) to 130(B)                                  |
| bearing lifetime                                                                    |                                 |                                 | Duty type                  | S1                                                |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 40000 h                         | 32000 h                         | Direction of rotation      | bidirectional                                     |
| Lubricants                                                                          | Unirex N3                       |                                 | Frame material             | aluminum                                          |
| Regreasing device                                                                   | No                              |                                 | Coating (paint finish)     | Standard paint finish C2                          |
| Grease nipple                                                                       | -/-                             |                                 | Color, paint shade         | RAL7030                                           |
| Type of bearing                                                                     | Preloaded bearing DE            |                                 | Motor protection           | (B) 1 PTC thermistor - for tripping (2 terminals) |
| Condensate drainage holes                                                           | -/-                             |                                 | Method of cooling          | IC411 - self ventilated, surface cooled           |

## Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 1.5 mm²             |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 9.0 mm - 17.0 mm    |
| Type of terminal box     | TB1 E00   | Cable entry                    | 1xM25x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 2 plugs             |

Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010  
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

|                                                                                    |                     |                 |             |                                                                                                              |                  |          |      |
|------------------------------------------------------------------------------------|---------------------|-----------------|-------------|--------------------------------------------------------------------------------------------------------------|------------------|----------|------|
| responsible dep.                                                                   | technical reference | created by      | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                  |          |      |
| DI MC LVM                                                                          |                     | DT Configurator |             |                                                                                                              |                  |          |      |
|  | document type       |                 |             | document status                                                                                              |                  | customer |      |
|                                                                                    | datasheet           |                 |             | released                                                                                                     |                  |          |      |
|                                                                                    | title               |                 |             | document number                                                                                              |                  |          |      |
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