



**SIMOTICS GP - 100 L - IM B14 - 4p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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> |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>              |       |      |          |      |       |         |      |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 220                                                  | Δ     | 50   | 3.00     | -/-  | 11.20 | 1450    | 19.8 | 87.7            | 88.1                                             | 87.1                   | 0.80               | 0.73 | 0.60 | 8.0                            | 3.1                            | 3.8                            | IE3   |
| 380                                                  | Y     | 50   | 3.00     | -/-  | 6.50  | 1450    | 19.8 | 87.7            | 88.1                                             | 87.1                   | 0.80               | 0.73 | 0.60 | 8.0                            | 3.1                            | 3.8                            | IE3   |
| 440                                                  | Y     | 60   | 3.45     | -/-  | 6.40  | 1750    | 18.8 | 87.5            | 88.0                                             | 87.2                   | 0.81               | 0.74 | 0.62 | 9.0                            | 3.1                            | 4.1                            | IE2   |
| 440                                                  | Y     | 60   | 3.00     | -/-  | 5.60  | 1760    | 16.3 | 89.5            | 89.4                                             | 88.0                   | 0.78               | 0.70 | 0.58 | 9.9                            | 3.5                            | 4.7                            | IE3   |
| IM B14 / IM 3601                                     |       |      | FS 100 L |      |       | IP55    | UKCA | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                | Grade 3                        |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |       |         |      |                 | Locked rotor time (hot / cold) : 12.8 s   17.6 s |                        |                    |      |      |                                |                                |                                |       |

|                                                                                        |                                |                                |                                 |                                                    |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 60 / 72 dB(A) <sup>2) 3)</sup> | 62 / 74 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                      | 0.0100 kg m²                   |                                | Thermal class                   | F                                                  |
| Bearing DE   NDE                                                                       | 6206 2Z C3                     | 6206 2Z C3                     | Duty type                       | S1                                                 |
| <b>bearing lifetime</b>                                                                |                                |                                | Direction of rotation           | bidirectional                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                           |
| Regreasing device                                                                      | No                             |                                | Net weight of the motor (IM B3) | 26 kg                                              |
| Grease nipple                                                                          | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                           |
| Type of bearing                                                                        | Preloaded bearing DE           |                                | Color, paint shade              | RAL7030                                            |
| Condensate drainage holes                                                              | No                             |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| External earthing terminal                                                             | No                             |                                | Method of cooling               | IC411 - self ventilated, surface cooled            |

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 4 mm²               |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11 mm - 21 mm       |
| Type of terminal box     | TB1 F00   | Cable entry                    | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 3 plugs             |

Notes:

|                                                          |                                           |                                                                  |
|----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_{Lr}/I_{Ln}$ = locked rotor current / current nominal | 1) L10mh according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_r/M_{rn}$ = locked rotor torque / torque nominal      | 2) at rated power / at full load          |                                                                  |
| $M_b/M_{bn}$ = break down torque / nominal torque        |                                           |                                                                  |

|                                                                                    |                               |                               |             |                                                                                                              |                             |                                                                                                                         |             |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| responsible dep.<br>DI MC LVM                                                      | technical reference           | created by<br>DT Configurator | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                             | <a href="#">Link documents</a><br> |             |
|  | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |                                    |             |
|                                                                                    | title<br>1LE1003-1AB52-1KB4-Z |                               |             | document number                                                                                              |                             |                                                                                                                         |             |
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3105B

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Special design

D34

China Energy Efficiency Label

Notes:

|                               |                               |                               |             |                                                                                                              |                             |                                |                                                                                       |                |
|-------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|---------------------------------------------------------------------------------------|----------------|
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|                               | title<br>1LE1003-1AB52-1KB4-Z |                               |             |                                                                                                              | document number             |                                |                                                                                       |                |
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