



**SIMOTICS GP - 100 L - IM B5 - 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> |       |
| DOL duty (S1) - 155(F) to 130(B)                     |       |      |          |      |      |         |      |                 |      |                                                  |                    |      |      |                                |                                |                                |       |
| 400                                                  | Δ     | 50   | 3.00     | -/-  | 6.20 | 1450    | 19.8 | 87.7            | 88.1 | 87.1                                             | 0.80               | 0.73 | 0.60 | 8.0                            | 3.1                            | 3.8                            | IE3   |
| 690                                                  | Y     | 50   | 3.00     | -/-  | 3.60 | 1450    | 19.8 | 87.7            | 88.1 | 87.1                                             | 0.80               | 0.73 | 0.60 | 8.0                            | 3.1                            | 3.8                            | IE3   |
| 460                                                  | Δ     | 60   | 3.45     | -/-  | 6.10 | 1750    | 18.8 | 87.5            | 88.0 | 87.2                                             | 0.81               | 0.74 | 0.62 | 9.0                            | 3.1                            | 4.1                            | IE2   |
| 460                                                  | Δ     | 60   | 3.00     | -/-  | 5.40 | 1760    | 16.3 | 89.5            | 89.4 | 88.0                                             | 0.78               | 0.70 | 0.58 | 9.9                            | 3.5                            | 4.7                            | IE3   |
| IM B5 / IM 3001                                      |       |      | FS 100 L |      |      | IP55    | UKCA | IEC/EN 60034    |      | IEC, DIN, ISO, VDE, EN                           |                    |      |      |                                |                                |                                |       |
| 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 |
| $M_{lr}/M_{ln}$ = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| $M_b/M_{ln}$ = break down torque / nominal torque        |                                           |                                                                  |

|                                                                                    |                     |                 |             |                                                                                                              |               |                                                                                       |      |
|------------------------------------------------------------------------------------|---------------------|-----------------|-------------|--------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|------|
| responsible dep.                                                                   | technical reference | created by      | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |               | <a href="#">Link documents</a>                                                        |      |
| DI MC LVM                                                                          |                     | DT Configurator |             |                                                                                                              |               |  |      |
|  | document type       |                 |             | document status                                                                                              |               |  |      |
|                                                                                    | datasheet           |                 |             | released                                                                                                     |               |                                                                                       |      |
|                                                                                    | title               |                 |             | document number                                                                                              |               |                                                                                       |      |
|                                                                                    | 1LE1003-1AB53-4FB4  |                 |             |                                                                                                              |               |                                                                                       |      |
| © Siemens AG 2023                                                                  |                     |                 |             | rev.                                                                                                         | creation date | language                                                                              | Page |
|                                                                                    |                     |                 |             | 942                                                                                                          | 2023-02-16    | en                                                                                    | 1/1  |