



**SIMOTICS GP - 100 L - IM B5 - 4p**

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

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

## Safe Area

| U               | $\Delta / Y$ | f    | P        | P    | I     | n       | M    | $\eta^{3)}$ |      |              | $\cos\varphi^{3)}$ |                        |      | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|-----------------|--------------|------|----------|------|-------|---------|------|-------------|------|--------------|--------------------|------------------------|------|-----------|-----------|-----------|-------|
| [V]             |              | [Hz] | [kW]     | [hp] | [A]   | [1/min] | [Nm] | 4/4         | 3/4  | 2/4          | 4/4                | 3/4                    | 2/4  | $I_I/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |
| 440             | Y            | 60   | 3.45     | -/-  | 6.30  | 1755    | 18.8 | 87.5        | 88.2 | 87.3         | 0.82               | 0.77                   | 0.65 | 7.5       | 2.0       | 3.1       | IE2   |
|                 |              |      |          |      |       |         |      |             |      |              |                    |                        |      |           |           |           |       |
|                 |              |      |          |      |       |         |      |             |      |              |                    |                        |      |           |           |           |       |
|                 |              |      |          |      |       |         |      |             |      |              |                    |                        |      |           |           |           |       |
| IM B5 / IM 3001 |              |      | FS 100 L |      | 25 kq |         | IP55 |             |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |           |           |           |       |

Locked rotor time (hot / cold) : 9.57 s | 14.6 s

## Mechanical data

|                                                                                        |                                 |                                 |                            |                                                    |
|----------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 60.0 / 72.0 dB(A) <sup>2)</sup> | 62.0 / 74.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                                 |
| Moment of inertia                                                                      | 0.0140 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                                  |
| Bearing DE   NDE                                                                       | 6206 2Z C3                      | 6206 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<br>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) 3 PTC thermistors - 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      | 4.0 mm²             |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11.0 mm - 21.0 mm   |
| Type of terminal box     | TB1 F00   | Cable entry                    | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 3 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                                                                                              |                  |          |      |
|                                                                                    | 1LE1001-1AB59-0FB4-Z |                 |             |                                                                                                              |                  |          |      |
|                                                                                    | F76+M10+M1C          |                 |             | rev.                                                                                                         | creation date    | language | Page |
| © Siemens AG 2021                                                                  |                      |                 |             | 01                                                                                                           | 2021-04-23 14:59 | en       | 1/2  |

## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV2105B

SIMOTICS GP - 100 L - IM B5 - 4p

### Special design

|     |                                |     |                     |
|-----|--------------------------------|-----|---------------------|
| F76 | Metal external fan             | M1C | 440 VY, 60-Hz power |
| M10 | Additional rating plate, loose |     |                     |

### Notes:

|                                                                                    |                                              |                               |                                   |  |                                                                                                              |             |  |                 |
|------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------|-------------|--|-----------------|
| 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. |             |  |                 |
|  | document type<br>datasheet                   | document status<br>released   |                                   |  | customer                                                                                                     |             |  |                 |
|                                                                                    | title<br>1LE1001-1AB59-0FB4-Z<br>F76+M10+M1C |                               |                                   |  |                                                                                                              |             |  | document number |
| © Siemens AG 2021                                                                  |                                              | rev.<br>01                    | creation date<br>2021-04-23 14:59 |  | language<br>en                                                                                               | Page<br>2/2 |  |                 |