

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



Motor type : 1AV3136B

SIMOTICS GP - 132 M - IM B3 - 4p

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

Remarks

## Electrical data

## 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)                     |       |      |          |      |       |         |      |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 230                                                  | Δ     | 50   | 11.00    | -/-  | 38.00 | 1470    | 71.0 | 91.4            | 91.8                                             | 91.1                   | 0.79               | 0.73 | 0.61 | 8.3                            | 2.8                            | 3.8                            | IE3   |
| 400                                                  | Y     | 50   | 11.00    | -/-  | 22.00 | 1470    | 71.0 | 91.4            | 91.8                                             | 91.1                   | 0.79               | 0.73 | 0.61 | 8.3                            | 2.8                            | 3.8                            | IE3   |
| 460                                                  | Y     | 60   | 12.60    | -/-  | 21.00 | 1770    | 68.0 | 92.4            | 92.6                                             | 92.0                   | 0.81               | 0.76 | 0.65 | 8.8                            | 2.7                            | 3.8                            | IE3   |
| 460                                                  | Y     | 60   | 11.00    | -/-  | 19.20 | 1775    | 59.0 | 92.4            | 92.0                                             | 91.0                   | 0.78               | 0.72 | 0.60 | 9.8                            | 3.1                            | 4.4                            | IE3   |
| IM B3 / IM 1001                                      |       |      | FS 132 M |      |       | IP55    |      | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |       |         |      |                 | Locked rotor time (hot / cold) : 14.5 s   20.8 s |                        |                    |      |      |                                |                                |                                |       |

## Mechanical data

|                                                                             |                             |                             |                                 |                                                  |
|-----------------------------------------------------------------------------|-----------------------------|-----------------------------|---------------------------------|--------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                        | 64 / 78 dB(A) <sup>2)</sup> | 69 / 82 dB(A) <sup>2)</sup> | Vibration severity grade        | A                                                |
| Moment of inertia                                                           | 0.0410 kg m <sup>2</sup>    |                             | Thermal class                   | F                                                |
| Bearing DE   NDE                                                            | 6208 2Z C3                  | 6208 2Z C3                  | Duty type                       | S1                                               |
| bearing lifetime                                                            |                             |                             | Direction of rotation           | bidirectional                                    |
| L <sub>10mh</sub> F <sub>Rad</sub> min <sup>1)</sup> for coupling operation | 40000 h                     | 32000 h                     | Frame material                  | aluminum                                         |
| Lubricants                                                                  | Unirex N3                   |                             | Net weight of the motor (IM B3) | 81 kg                                            |
| Regreasing device                                                           | No                          |                             | Coating (paint finish)          | Standard paint finish C2                         |
| Grease nipple                                                               | -/-                         |                             | Color, paint shade              | RAL7030                                          |
| Type of bearing                                                             | Preloaded bearing DE        |                             | Motor protection                | (F) 1 temperature sensor KTY84-130 (2 terminals) |
| Condensate drainage holes                                                   | No                          |                             | Method of cooling               | IC411 - self ventilated, surface cooled          |
| External earthing terminal                                                  | No                          |                             |                                 |                                                  |

## Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | left      | Max. cross-sectional area      | 6 mm <sup>2</sup>   |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11 mm - 21 mm       |
| Type of terminal box     | TB1 H00   | Cable entry                    | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 3 plugs             |

## Notes:

|                                                                         |                                           |                                                                  |
|-------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| I <sub>A</sub> /I <sub>N</sub> = 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 <sub>A</sub> /M <sub>N</sub> = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| M <sub>K</sub> /M <sub>N</sub> = 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>1LE1003-1CB62-2AF6-Z |                               |             | document number                                                                                              |                             |                                                                                                                         |             |
| © Siemens AG 2022                                                                  | G21                           |                               |             | rev.<br>01                                                                                                   | creation date<br>2022-01-04 | language<br>en                                                                                                          | Page<br>1/2 |

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



Motor type : 1AV3136B

SIMOTICS GP - 132 M - IM B3 - 4p

### Special design

G21 Mounting of Kübler Sendix 5834FS2 1024 (SIL-2) rotary pulse encoder

### Notes:

responsible dep.  
DI MC LVM

technical reference

created by  
DT Configurator

approved by

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

[Link documents](#)

**SIEMENS**

document type  
datasheet

title  
1LE1003-1CB62-2AF6-Z  
G21

document status  
released

document number

