

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



Motor type : 1AV3130A

SIMOTICS GP - 132 S - IM B35 - 2p

|                  |                 |           |
|------------------|-----------------|-----------|
| 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> |       |
| 400 | Δ     | 50   | 5.50 | -/-  | 9.90 | 2950    | 17.8 | 89.2            | 90.1 | 89.7 | 0.90               | 0.87 | 0.79 | 7.3                            | 1.9                            | 3.7                            | IE3   |
| 690 | Y     | 50   | 5.50 | -/-  | 5.70 | 2950    | 17.8 | 89.2            | 90.1 | 89.7 | 0.90               | 0.87 | 0.79 | 7.3                            | 1.9                            | 3.7                            | IE3   |
| 460 | Δ     | 60   | 6.30 | -/-  | 9.70 | 3545    | 17.0 | 89.5            | 89.9 | 89.1 | 0.91               | 0.88 | 0.81 | 7.5                            | 1.9                            | 3.8                            | IE3   |
| 460 | Δ     | 60   | 5.50 | -/-  | 8.60 | 3555    | 14.8 | 89.5            | 89.4 | 88.2 | 0.90               | 0.86 | 0.78 | 8.6                            | 2.1                            | 4.4                            | IE3   |

IM B35 / IM 2001

FS 132 S

43 kg

IP55

IEC/EN 60034

IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 15.1 s | 21.2 s

## Mechanical data

|                                                                                     |                                 |                                 |                            |                                                    |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 68.0 / 80.0 dB(A) <sup>2)</sup> | 72.0 / 84.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                                 |
| Moment of inertia                                                                   | 0.0240 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                                  |
| Bearing DE   NDE                                                                    | 6208 2Z C3                      | 6208 2Z C3                      | Insulation                 | 155(F) to 130(B)                                   |
| bearing lifetime                                                                    |                                 |                                 | Duty type                  | S1                                                 |
| L <sub>10mh</sub> F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation | 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      | 6.0 mm <sup>2</sup> |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11.0 mm - 21.0 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  
M<sub>K</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>K</sub>/M<sub>N</sub> = 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 |             |                                                                                                              |

|                    |               |  |                 |                  |          |      |
|--------------------|---------------|--|-----------------|------------------|----------|------|
| SIEMENS            | document type |  | document status |                  | customer |      |
|                    | datasheet     |  | released        |                  |          |      |
|                    | title         |  | document number |                  |          |      |
| 1LE1003-1CA03-4JB4 |               |  |                 |                  |          |      |
| © Siemens AG 2021  |               |  | rev.            | creation date    | language | Page |
|                    |               |  | 01              | 2021-04-23 11:13 | en       | 1/1  |