

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



Motor type : 1AV3131A

SIMOTICS GP - 132 S - IM B5 - 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> |       |  |
|                                                      |       |      |          |      |       |         |      |                 |                                                  |      |                    |      |      |                                |                                |                                |       |  |
| 480                                                  | Δ     | 60   | 7.50     | -/-  | 11.00 | 3560    | 20.0 | 90.2            | 90.4                                             | 89.6 | 0.91               | 0.88 | 0.82 | 9.4                            | 2.2                            | 4.5                            | IE3   |  |
|                                                      |       |      |          |      |       |         |      |                 |                                                  |      |                    |      |      |                                |                                |                                |       |  |
| IM B5 / IM 3001                                      |       |      | FS 132 S |      | 57 kg |         | IP55 |                 |                                                  |      | IEC/EN 60034       |      |      | IEC, DIN, ISO, VDE, EN         |                                |                                |       |  |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |       |         |      |                 | Locked rotor time (hot / cold) : 9.25 s   13.5 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                                                                   | 0.0310 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 | 1) L10mh according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| M <sub>K</sub> /M <sub>N</sub> = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| M <sub>B</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. |                |             |  |
|  | document type<br>datasheet  | document status<br>released   |             | customer                                                                                                     |                |             |  |
|                                                                                    | title<br>1LE1003-1CA19-0FB4 | document number               |             |                                                                                                              |                |             |  |
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### Special design

M2L 480 VD for 60 Hz, 50-Hz power

### Notes:

|                                                                                    |                             |                               |                                   |  |                                                                                                              |             |  |  |
|------------------------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------|-------------|--|--|
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