

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



Motor type : 1AV2130B

SIMOTICS GP - 132 S - 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> |       |
| 230             | Δ     | 50       | 5.50 | -/-   | 19.70 | 1465    | 36.0 | 87.7            | 88.4 | 87.6                   | 0.80               | 0.74 | 0.62 | 6.9                            | 2.3                            | 2.9                            | IE2   |
| 400             | Y     | 50       | 5.50 | -/-   | 11.30 | 1465    | 36.0 | 87.7            | 88.4 | 87.6                   | 0.80               | 0.74 | 0.62 | 6.9                            | 2.3                            | 2.9                            | IE2   |
| 460             | Y     | 60       | 6.30 | -/-   | 10.90 | 1765    | 34.0 | 89.5            | 90.0 | 89.1                   | 0.81               | 0.76 | 0.66 | 7.3                            | 2.3                            | 2.9                            | IE2   |
| 460             | Y     | 60       | 5.50 | -/-   | 9.90  | 1770    | 29.5 | 89.5            | 89.6 | 88.1                   | 0.78               | 0.72 | 0.61 | 8.0                            | 2.6                            | 3.3                            | IE2   |
| IM B3 / IM 1001 |       | FS 132 S |      | 42 kg |       | IP55    |      | IEC/EN 60034    |      | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |

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

Locked rotor time (hot / cold) : 14.3 s | 22.2 s

Mechanical data

|                                                                                     |                                 |                                 |                            |                                                  |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|--------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 64.0 / 76.0 dB(A) <sup>2)</sup> | 68.0 / 80.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                               |
| Moment of inertia                                                                   | 0.0220 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                                |
| Bearing DE   NDE                                                                    | 6308 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           | (F) 1 temperature sensor KTY84-130 (2 terminals) |
| Condensate drainage holes                                                           | -/-                             |                                 | Method of cooling          | IC411 - self ventilated, surface cooled          |

Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | right     | 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>B</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      |             |                                                                                                              |               |          |      |
|  | document type       | datasheet            |             | document status                                                                                              |               | customer |      |
|                                                                                    |                     |                      |             | released                                                                                                     |               |          |      |
|                                                                                    | title               | 1LE1001-1CB02-2AF5-Z |             | document number                                                                                              |               |          |      |
|                                                                                    |                     |                      |             |                                                                                                              |               |          |      |
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### Special design

G41 Prepared to mount components with D12 shaft L22 Bearing design for increased cantilever forces

### Notes:

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