

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



Motor type : 1AV3132B SIMOTICS GP - 132 M - IM B5 - 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       | 7.50 | -/-    | 26.00 | 1465    | 49.0 | 90.4            | 90.7                                             | 90.4         | 0.80               | 0.74                          | 0.63 | 8.5                            | 3.0                            | 3.8                            | IE3   |
| 400                                                  | Y     | 50       | 7.50 | -/-    | 15.00 | 1465    | 49.0 | 90.4            | 90.7                                             | 90.4         | 0.80               | 0.74                          | 0.63 | 8.5                            | 3.0                            | 3.8                            | IE3   |
| 460                                                  | Y     | 60       | 8.60 | -/-    | 14.90 | 1765    | 46.5 | 89.5            | 90.0                                             | 89.4         | 0.81               | 0.76                          | 0.65 | 8.8                            | 3.0                            | 3.8                            | IE2   |
| 460                                                  | Y     | 60       | 7.50 | 10.00  | 13.00 | 1770    | 40.5 | 91.7            | 91.6                                             | 90.6         | 0.79               | 0.73                          | 0.61 | 9.8                            | 3.4                            | 4.3                            | MG1   |
| IM B5 / IM 3001                                      |       | FS 132 M |      | CC032A |       | IP55    |      | UKCA            |                                                  | IEC/EN 60034 |                    | IEC, EN, UL, CSA, NEMA MG1-12 |      |                                | kVA Code: N                    |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |          |      |        |       |         |      |                 | Locked rotor time (hot / cold) : 14.8 s   20.1 s |              |                    |                               |      |                                |                                |                                |       |

Mechanical data

|                                                                                     |                                |                                |                                 |                                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 72 / 80 dB(A) <sup>2) 3)</sup> | 68 / 76 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                |
| Moment of inertia                                                                   | 0.0334 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 min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                         |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 61 kg                                            |
| Grease nipple                                                                       | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                         |
| Type of bearing                                                                     | Preloaded bearing DE           |                                | Color, paint shade              | RAL7030                                          |
| Condensate drainage holes                                                           | Without                        |                                | Motor protection                | (F) 1 temperature sensor KTY84-130 (2 terminals) |
| External earthing terminal                                                          | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled          |

Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | 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   
 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. |                 | <a href="#">Link documents</a>                                                        |          |      |
| DI MC LVM                                                                          |                     | DT Configurator      |             |                                                                                                              |                 |  |          |      |
|  | document type       |                      |             |                                                                                                              | document status |                                                                                       |          |      |
|                                                                                    | datasheet           |                      |             |                                                                                                              | released        |                                                                                       |          |      |
|                                                                                    | title               | 1LE1023-1CB22-2FF4-Z |             |                                                                                                              | document number |                                                                                       |          |      |
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|                                                                                    |                     |                      |             |                                                                                                              | 943             | 2023-05-22                                                                            | en       | 1/2  |

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Special design

|     |                                          |     |                                                               |
|-----|------------------------------------------|-----|---------------------------------------------------------------|
| F01 | Mounting of holding brake                | F50 | Mechanical manual brake release with lever (cannot be locked) |
| F11 | Brake supply voltage, 230 V AC, 50/60 Hz |     |                                                               |

Additional information:

Brake:

|              |           |                    |               |
|--------------|-----------|--------------------|---------------|
| Description: | BFK458-16 | Current:           | .27 A         |
| Voltage:     | AC 230 V  | Moment of inertia: | 0.001500 kgm² |

Notes:

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