

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



Motor type : 1CV3130B

SIMOTICS SD - 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> |       |
| DOL duty (S1) - 155(F) to 155(F)                   |       |          |      |      |       |         |      |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 400                                                | Δ     | 50       | 5.50 | -/-  | 10.80 | 1470    | 35.5 | 89.6            | 90.0                                             | 89.4                   | 0.82               | 0.77 | 0.67 | 8.5                            | 2.9                            | 3.7                            | IE3   |
| 690                                                | Y     | 50       | 5.50 | -/-  | 6.30  | 1470    | 35.5 | 89.6            | 90.0                                             | 89.4                   | 0.82               | 0.77 | 0.67 | 8.5                            | 2.9                            | 3.7                            | IE3   |
| 460                                                | Δ     | 60       | 6.30 | -/-  | 10.40 | 1770    | 34.0 | 91.7            | 92.0                                             | 91.3                   | 0.83               | 0.79 | 0.69 | 8.7                            | 2.7                            | 3.7                            | IE3   |
| 460                                                | Δ     | 60       | 5.50 | -/-  | 9.30  | 1775    | 29.5 | 91.7            | 91.6                                             | 90.5                   | 0.81               | 0.76 | 0.65 | 10.0                           | 3.1                            | 4.2                            | IE3   |
| IM B3 / IM 1001                                    |       | FS 132 S |      |      |       | IP55    | UKCA | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - + °C / 1,000 m |       |          |      |      |       |         |      |                 | Locked rotor time (hot / cold) : 22.8 s   29.1 s |                        |                    |      |      |                                |                                |                                |       |

Mechanical data

|                                                                         |                                |                                |                                 |                                                               |
|-------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                    | 64 / 76 dB(A) <sup>2) 3)</sup> | 68 / 80 dB(A) <sup>2) 3)</sup> | External earthing terminal      | Without                                                       |
| Moment of inertia                                                       | 0.0340 kg m <sup>2</sup>       |                                | Vibration severity grade        | A                                                             |
| Bearing DE   NDE                                                        | 6308 Z C3                      | 6308 Z C3                      | Thermal class                   | F                                                             |
| bearing lifetime                                                        |                                |                                | Duty type                       | S1                                                            |
| L <sub>10mh</sub> F <sub>Rad</sub> <sup>1)</sup> for coupling operation | 40000 h                        | 32000 h                        | Direction of rotation           | bidirectional                                                 |
| 50 60Hz                                                                 |                                |                                | Frame material                  | cast iron                                                     |
| Relubrication interval/quantity DE   NDE                                | 10 g                           | 10 g                           | Net weight of the motor (IM B3) | 74 kg                                                         |
| Lubricants                                                              | Unirex N3                      |                                | Coating (paint finish)          | Special paint finish C3                                       |
| Regreasing device                                                       | With                           |                                | Color, paint shade              | RAL7030                                                       |
| Grease nipple                                                           | M8x1 DIN 71412                 |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (standard) (2 terminals) |
| Type of bearing                                                         | Preloaded bearing DE           |                                | Method of cooling               | IC411 - self ventilated, surface cooled                       |
| Condensate drainage holes                                               | With (standard)                |                                |                                 |                                                               |

Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 6 mm <sup>2</sup>   |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 11 mm - 21 mm       |
| Type of terminal box     | TB1 H01   | 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.                                                                   | 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               | 1LE1603-1CB03-4AB4-Z |               |                                                                                                              | document number |                                                                                       |  |
|                                                                                    | B02+H01+H07+L23+N03 |                      |               |                                                                                                              |                 |                                                                                       |  |
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|                                                                                    |                     | 943                  | 2023-04-06    |                                                                                                              | en              | 1/2                                                                                   |  |



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|     |                                                      |     |                                                                                           |
|-----|------------------------------------------------------|-----|-------------------------------------------------------------------------------------------|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204     | L23 | Regreasing system                                                                         |
| H01 | Bolted on mounting feet (instead of cast)            | N03 | Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature |
| H07 | Stainless steel screws and bolts (outside the motor) |     |                                                                                           |

|                               |  |                               |                               |             |  |                                                                                                              |                             |                                                                                       |             |
|-------------------------------|--|-------------------------------|-------------------------------|-------------|--|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| Notes:                        |  |                               |                               |             |  |                                                                                                              |                             |                                                                                       |             |
|                               |  |                               |                               |             |  |                                                                                                              |                             |                                                                                       |             |
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| SIEMENS                       |  | document type<br>datasheet    |                               |             |  | document status<br>released                                                                                  |                             |  |             |
|                               |  | title<br>1LE1603-1CB03-4AB4-Z |                               |             |  | document number                                                                                              |                             |                                                                                       |             |
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