

# 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 130(B)

|                 |  |          |  |      |  |              |                        |  |  |  |  |
|-----------------|--|----------|--|------|--|--------------|------------------------|--|--|--|--|
| IM B3 / IM 1001 |  | FS 132 S |  | IP55 |  | IEC/EN 60034 | IEC, DIN, ISO, VDE, EN |  |  |  |  |
|-----------------|--|----------|--|------|--|--------------|------------------------|--|--|--|--|

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

Locked rotor time (hot / cold) : 22 s | 28.1 s

## Mechanical data

|                                                                                     |                             |                             |                                 |                                                    |
|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 69 / 73 dB(A) <sup>2)</sup> | 69 / 73 dB(A) <sup>2)</sup> | External earthing terminal      | No                                                 |
| Moment of inertia                                                                   | 0.0340 kg m <sup>2</sup>    |                             | Vibration severity grade        | A                                                  |
| Bearing DE   NDE                                                                    | 6208 Z C3                   | 6208 Z C3                   | Thermal class                   | F                                                  |
| <b>bearing lifetime</b>                                                             |                             |                             | Duty type                       | S1                                                 |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 40000 h                     | 32000 h                     | Direction of rotation           | bidirectional                                      |
| Relubrication interval/quantity DE   NDE                                            | 10 g   10 g<br>8000 h       |                             | Frame material                  | cast iron                                          |
| Lubricants                                                                          | Unirex N3                   |                             | Net weight of the motor (IM B3) | 74 kg                                              |
| Regreasing device                                                                   | Yes                         |                             | Coating (paint finish)          | Standard paint finish C2                           |
| Grease nipple                                                                       | M8x1 DIN 71412              |                             | Color, paint shade              | RAL7030                                            |
| Type of bearing                                                                     | Preloaded bearing DE        |                             | Motor protection                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| Condensate drainage holes                                                           | Yes (standard)              |                             | Method of cooling               | IC416 - separately ventilated, surface cooled      |

## Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | right     | 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  
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.<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. | <a href="#">Link documents</a> |
|  | document type<br>datasheet                               |                               |             |                                                                                                              | document status<br>released    |
|                                                                                    | title<br>1LE1503-1CB09-0AB5-Z<br>B02+F70+G11+L23+M1Y+Y82 |                               |             |                                                                                                              | document number                |
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|                                                                                    |                                                          |                               |             | language<br>en                                                                                               | Page<br>1/2                    |



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### Special design

|     |                                                  |     |                                         |
|-----|--------------------------------------------------|-----|-----------------------------------------|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204 | L23 | Regreasing system                       |
| F70 | Mounting of separately driven fan                | M1Y | Non-standard winding:                   |
| G11 | Rotary pulse encoder Sendix 5020 (HTL)           | Y82 | Auxiliary name plate with customer data |

### Notes:

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