

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



Motor type : 1AV3130B

SIMOTICS GP - 132 S - IM B5 - 4p

|                  |                 |           |
|------------------|-----------------|-----------|
| Client order no. | Item-No.        | Offer no. |
| Order no.        | Consignment no. | Project   |

Remarks

## Electrical data

## Safe Area

| U<br>[V]                                | $\Delta / Y$ | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[1/min] | M<br>[Nm] | $\eta^{3)}$  |      |                        | $\cos\phi^{3)}$ |      |         | $I_A/I_N$<br>$I_f/I_N$ | $M_A/M_N$<br>$T_f/T_N$ | $M_K/M_N$<br>$T_B/T_N$ | IE-CL |
|---|--------------|-----------|-----------|-----------|----------|--------------|-----------|--------------|------|------------------------|-----------------|------|---------|------------------------|------------------------|------------------------|-------|
|   |              |           |           |           |          |              |           | 4/4          | 3/4  | 2/4                    | 4/4             | 3/4  | 2/4     |                        |                        |                        |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b> |              |           |           |           |          |              |           |              |      |                        |                 |      |         |                        |                        |                        |       |
| 230                                     | $\Delta$     | 50        | 5.50      | -/-       | 18.80    | 1470         | 35.5      | 89.6         | 90.0 | 89.4                   | 0.82            | 0.77 | 0.67    | 8.5                    | 2.9                    | 3.7                    | IE3   |
| 400                                     | Y            | 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   |
| 460                                     | Y            | 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                                     | Y            | 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 B5 / IM 3001                         |              | FS 132 S  |           | IP55      |          | UKCA         |           | IEC/EN 60034 |      | IEC, DIN, ISO, VDE, EN |                 |      | Grade 3 |                        |                        |                        |       |

Environmental conditions : -20 °C - +40 °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> | Vibration severity grade        | A                                       |
| Moment of inertia  | 0.0340 kg m <sup>2</sup>       |                                | Thermal class                   | F                                       |
| Bearing DE   NDE   | 6208 2Z C3                     | 6208 2Z C3                     | Duty type                       | S1                                      |
| <b>bearing lifetime</b>  |                                |                                | Direction of rotation           | bidirectional                           |
| $L_{10mh}$ , $F_{Rad min}$<br>50 60Hz <sup>1)</sup> for coupling operation | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                |
| Lubricants   | Unirex N3                      |                                | Net weight of the motor (IM B3) | 54 kg                                   |
| Regreasing device  | No                             |                                | Coating (paint finish)          | Standard paint finish C2                |
| Grease nipple  | -/-                            |                                | Color, paint shade              | RAL7030                                 |
| Type of bearing  | Preloaded bearing DE           |                                | Motor protection                | (A) without (Standard)                  |
| Condensate drainage holes  | No                             |                                | Method of cooling               | IC411 - self ventilated, surface cooled |
| External earthing terminal   | No                             |                                |                                 |   |

## 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         |
| Contact screw thread     | M4        | Cable gland                    | 2 plugs           |

### Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = 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                 | <i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i> | <a href="#">Link documents</a> |
|                               | document type<br>datasheet           | document status<br>released   |                             |   | document number                |
|                               | title<br>1LE1003-1CB02-2FA4-Z<br>D34 | rev.<br>929                   | creation date<br>2022-11-03 |   |                                |
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## Special design

D34 China Energy Efficiency Label

### Notes:

|                               |                                      |                               |                |   |                                |
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