

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



Motor type : 1AV3130D

SIMOTICS GP - 132 S - IM B35 - 8p

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

Remarks

## Electrical data

## Safe Area

| U   | $\Delta / Y$ | f    | P    | P    | I   | n       | M    | $\eta^{3)}$ |     |     | $\cos\phi^{3)}$ |     |     | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|-----|--------------|------|------|------|-----|---------|------|-------------|-----|-----|-----------------|-----|-----|-----------|-----------|-----------|-------|
| [V] |              | [Hz] | [kW] | [hp] | [A] | [1/min] | [Nm] | 4/4         | 3/4 | 2/4 | 4/4             | 3/4 | 2/4 | $I_A/I_N$ | $T_A/T_N$ | $T_B/T_N$ |       |

DOL duty (S1) - 155(F) to 130(B)

|                  |  |          |  |      |  |              |                        |  |  |  |  |
|------------------|--|----------|--|------|--|--------------|------------------------|--|--|--|--|
| IM B35 / IM 2001 |  | 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) : 26.7 s | 35.2 s

## Mechanical data

|                                               |                             |                             |                                 |                                         |
|-----------------------------------------------|-----------------------------|-----------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz          | 64 / 77 dB(A) <sup>2)</sup> | 67 / 80 dB(A) <sup>2)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                             | 0.0460 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                           |
| $L_{10mh} F_{Rad min}$ for coupling operation | 40000 h                     | 32000 h                     | Frame material                  | aluminum                                |
| Lubricants                                    | Unirex N3                   |                             | Net weight of the motor (IM B3) | 42 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                     | Yes (standard)              |                             | 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.                                                                   | 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                |                 |             | document number                                                                                              |               |                                                                                       |      |
|                                                                                    | 1LE1003-1CD09-0JA4-Z |                 |             |                                                                                                              |               |                                                                                       |      |
|                                                                                    | M1Y+N30+Y80          |                 |             | rev.                                                                                                         | creation date | language                                                                              | Page |
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## Special design

|     |                                                                     |     |                                                |
|-----|---------------------------------------------------------------------|-----|------------------------------------------------|
| M1Y | Non-standard winding:                                               | Y80 | Supplementary rating plate with different data |
| N30 | Increased air humidity/temperature with 30 to 60 g water per m3 air |     |                                                |

## Notes:

|                                                                                    |                               |                               |             |                                                                                                              |                             |                                                                                       |             |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
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|  | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |  |             |
|                                                                                    | title<br>1LE1003-1CD09-0JA4-Z |                               |             | document number                                                                                              |                             |                                                                                       |             |
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