

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



Motor type : 1CV3252B

SIMOTICS SD - 250 M - IM V1 - 4p

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

Remarks

|                 |                  |
|-----------------|------------------|
| Electrical data | Safe Area<br>-/- |
|-----------------|------------------|

| 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)                                                                                                      |       |          |       |      |       |         |       |                 |                                                |      |                        |      |      |                                |                                |                                |       |
| 400                                                                                                                                   | Δ     | 50       | 52.80 | -/-  | 93.00 | 1480    | 340.7 | 94.7            | 95.1                                           | 95.0 | 0.87                   | 0.83 | 0.75 | 7.1                            | 2.6                            | 3.0                            | IE3   |
| 690                                                                                                                                   | Y     | 50       | 52.80 | -/-  | 54.00 | 1480    | 340.7 | 94.7            | 95.1                                           | 95.0 | 0.87                   | 0.83 | 0.75 | 7.1                            | 2.6                            | 3.0                            | IE3   |
| 460                                                                                                                                   | Δ     | 60       | 60.48 | -/-  | 93.00 | 1780    | 324.5 | 94.2            | 94.5                                           | 94.4 | 0.87                   | 0.83 | 0.76 | 7.0                            | 2.5                            | 2.9                            | IE2   |
| 460                                                                                                                                   | Δ     | 60       | 55.00 | -/-  | 84.00 | 1786    | 295.0 | 95.4            | 95.6                                           | 95.1 | 0.86                   | 0.83 | 0.74 | 7.6                            | 2.8                            | 3.2                            | IE3   |
| IM V1 / IM 3011                                                                                                                       |       | FS 250 M |       |      |       | IP55    | UKCA  | IEC/EN 60034    |                                                |      | IEC, DIN, ISO, VDE, EN |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +45 °C / 1,000 m                                                                                  |       |          |       |      |       |         |       |                 | Locked rotor time (hot / cold) : 34.9 s   55 s |      |                        |      |      |                                |                                |                                |       |
| These values are calculated. The final rating plate data will be calculated when the order is placed                                  |       |          |       |      |       |         |       |                 |                                                |      |                        |      |      |                                |                                |                                |       |
| The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions. |       |          |       |      |       |         |       |                 |                                                |      |                        |      |      |                                |                                |                                |       |

Mechanical data

|                                                                                     |                                |                                |                                 |                                         |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 66 / 79 dB(A) <sup>2) 3)</sup> | 68 / 82 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                   | 0.8500 kg m²                   |                                | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                    | 6215 Z C3                      | 6215 Z C3                      | Duty type                       | S1                                      |
| <b>bearing lifetime</b>                                                             |                                |                                | Direction of rotation           | bidirectional                           |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 20000 h                        | 16000 h                        | Frame material                  | cast iron                               |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 420 kg                                  |
| Grease nipple                                                                       | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                |
| Type of bearing                                                                     | Locating bearing NDE           |                                | Color, paint shade              | RAL7030                                 |
| Condensate drainage holes                                                           | With (standard)                |                                | Motor protection                | (A) without (Standard)                  |
| External earthing terminal                                                          | With (standard)                |                                | Method of cooling               | IC411 - self ventilated, surface cooled |

Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 120 mm <sup>2</sup> |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 34 mm - 42 mm       |
| Type of terminal box     | TB1 N01   | Cable entry                    | 2xM63x1,5           |
| Contact screw thread     | M10       | Cable gland                    | 2 plugs             |

|                                                    |                                           |                                                                  |
|----------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| <b>Notes:</b>                                      |                                           |                                                                  |
| $I_A/I_N$ = 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 |
| $M_A/M_N$ = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| $M_B/M_N$ = 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>                                                        |          |      |
| IN LVM                                                                             |                     | SPC                  |             |                                                                                                              |                 |  |          |      |
|  | document type       | datasheet            |             |                                                                                                              | document status |                                                                                       |          |      |
|                                                                                    |                     |                      |             |                                                                                                              | released        |                                                                                       |          |      |
|                                                                                    | title               | 1LE1503-2CB23-4GA4-Z |             |                                                                                                              | document number |                                                                                       |          |      |
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|                                                                                    |                     |                      |             |                                                                                                              | 950             | 2023-09-30                                                                            | en       | 1/2  |

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## Special design

|     |                                                                                                |     |                                                                     |
|-----|------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------|
| H00 | Canopy                                                                                         | N30 | Increased air humidity/temperature with 30 to 60 g water per m3 air |
| N05 | Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced |     |                                                                     |

**Notes:**

|                            |                               |                   |             |                                                                                                              |                             |                                                                                       |             |
|----------------------------|-------------------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
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| SIEMENS                    | document type<br>datasheet    |                   |             | document status<br>released                                                                                  |                             |  |             |
|                            | title<br>1LE1503-2CB23-4GA4-Z |                   |             | document number                                                                                              |                             |                                                                                       |             |
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