

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



Motor type : 1CV3252D SIMOTICS SD Premium Insulation - 250 M - IM B3 - 8p

|                  |                 |           |
|------------------|-----------------|-----------|
| 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)                     |       |          |       |      |        |         |       |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 230                                                  | Δ     | 50       | 30.00 | -/-  | 106.00 | 734     | 390.0 | 91.3            | 92.0                                             | 91.8                   | 0.78               | 0.71 | 0.59 | 6.4                            | 2.5                            | 2.9                            | IE3   |
| 400                                                  | Y     | 50       | 30.00 | -/-  | 61.00  | 734     | 390.0 | 91.3            | 92.0                                             | 91.8                   | 0.78               | 0.71 | 0.59 | 6.4                            | 2.5                            | 2.9                            | IE3   |
| 460                                                  | Y     | 60       | 36.00 | -/-  | 62.00  | 882     | 390.0 | 91.7            | 92.4                                             | 92.4                   | 0.80               | 0.70 | 0.59 | 6.3                            | 2.3                            | 2.7                            | IE2   |
| 460                                                  | Y     | 60       | 30.00 | -/-  | 54.00  | 886     | 325.0 | 91.7            | 92.0                                             | 91.4                   | 0.76               | 0.69 | 0.56 | 7.3                            | 2.8                            | 3.3                            | IE3   |
| IM B3 / IM 1001                                      |       | FS 250 M |       |      |        | IP55    | UKCA  | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                | KS C IEC60034-2-1              |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |          |       |      |        |         |       |                 | Locked rotor time (hot / cold) : 16.4 s   26.3 s |                        |                    |      |      |                                |                                |                                |       |

Mechanical data

|                                                                                     |                                |                                |                                 |                                                    |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 60 / 74 dB(A) <sup>2) 3)</sup> | 65 / 79 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                   | 0.8510 kg m <sup>2</sup>       |                                | Thermal class                   | F                                                  |
| Bearing DE   NDE                                                                    | 6215 Z C3                      | 6215 Z C3                      | Duty type                       | S1                                                 |
| bearing lifetime                                                                    |                                |                                | Direction of rotation           | bidirectional                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | cast iron                                          |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 370 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                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| 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                    | 2xM63x1,5-2xM20x1,5 |
| Contact screw thread     | M10       | Cable gland                    | 4 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.<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> |
| SIEMENS                       | document type<br>datasheet               |                               |             |                                                                                                              | document status<br>released    |
|                               | title<br>1LE1583-2CD22-2AB4-Z<br>L05+Q02 |                               |             |                                                                                                              | document number                |
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|                               |                                          |                               |             | language<br>en                                                                                               | Page<br>1/2                    |





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## Special design

|     |                                 |     |                                                   |
|-----|---------------------------------|-----|---------------------------------------------------|
| L05 | Second standard shaft extension | Q02 | Anti-condensation heating for 230 V (2 terminals) |
|-----|---------------------------------|-----|---------------------------------------------------|

**Additional information:**

## Space heaters

|                 |                    |
|-----------------|--------------------|
| Technical data: | 1-phase, 230 V 92W |
|-----------------|--------------------|

## Notes:

[Link documents](#)

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