



**SIMOTICS SD - 225 M - IM B3 - 4p**

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

|         |
|---------|
| Remarks |
|---------|

## Safe Area

| U               | $\Delta / Y$ | f    | P        | P    | I      | n       | M     | $\eta^{3)}$ |      |              | $\cos\varphi^{3)}$ |                        |      | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|-----------------|--------------|------|----------|------|--------|---------|-------|-------------|------|--------------|--------------------|------------------------|------|-----------|-----------|-----------|-------|
| [V]             |              | [Hz] | [kW]     | [hp] | [A]    | [1/min] | [Nm]  | 4/4         | 3/4  | 2/4          | 4/4                | 3/4                    | 2/4  | $I_A/I_N$ | $T_A/T_N$ | $T_B/T_N$ |       |
| 400             | $\Delta$     | 50   | 45.00    | -/-  | 80.00  | 1478    | 290.0 | 94.2        | 94.9 | 95.0         | 0.86               | 0.83                   | 0.75 | 6.6       | 2.6       | 2.6       | IE3   |
| 690             | Y            | 50   | 45.00    | -/-  | 46.50  | 1478    | 290.0 | 94.2        | 94.9 | 95.0         | 0.86               | 0.83                   | 0.75 | 6.6       | 2.6       | 2.6       | IE3   |
| 460             | $\Delta$     | 60   | 52.00    | -/-  | 81.00  | 1778    | 280.0 | 94.1        | 94.7 | 94.8         | 0.86               | 0.84                   | 0.77 | 6.8       | 2.6       | 2.6       | IE2   |
| 460             | $\Delta$     | 60   | 45.00    | -/-  | 70.00  | 1782    | 240.0 | 95.0        | 95.3 | 95.1         | 0.85               | 0.81                   | 0.73 | 7.7       | 3.0       | 3.0       | IE3   |
| IM B3 / IM 1001 |              |      | FS 225 M |      | 340 kq |         | IP55  |             |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |           |           |           |       |

Locked rotor time (hot / cold) : 33.7 s | 53.1 s

|                                                                                        |                                 |                                 |                            |                                         |
|----------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 65.0 / 78.0 dB(A) <sup>2)</sup> | 68.0 / 82.0 dB(A) <sup>2)</sup> | External earthing terminal | Yes (standard)                          |
| Moment of inertia                                                                      | 0.5200 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                       | 6213 Z C3                       | 6213 Z C3                       | Insulation                 | 155(F) to 130(B)                        |
| <b>bearing lifetime</b>                                                                |                                 |                                 | Duty type                  | S1                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                         | 32000 h                         | Direction of rotation      | bidirectional                           |
| Lubricants                                                                             | Unirex N3                       |                                 | Frame material             | cast iron                               |
| Regreasing device                                                                      | No                              |                                 | Coating (paint finish)     | Standard paint finish C2                |
| Grease nipple                                                                          | -/-                             |                                 | Color, paint shade         | RAL7030                                 |
| Type of bearing                                                                        | Locating bearing NDE            |                                 | Motor protection           | (A) without (Standard)                  |
| Condensate drainage holes                                                              | Yes (standard)                  |                                 | Method of cooling          | IC411 - self ventilated, surface cooled |

|                          |           |                                |                   |
|--------------------------|-----------|--------------------------------|-------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 35.0 mm²          |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 27.0 mm - 35.0 mm |
| Type of terminal box     | TB1 L01   | Cable entry                    | 2xM50x1,5         |
| Contact screw thread     | M8        | Cable gland                    | 2 plugs           |

|                                                       |                                           |                                                                  |
|-------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_{lr}/I_n$ = 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 |
| $M_r/M_n$ = locked rotor torque / torque nominal      | 2) at rated power / at full load          |                                                                  |
| $M_b/M_n$ = break down torque / nominal torque        |                                           |                                                                  |

|                                                                                    |                               |                               |                             |                                                                                                              |                |             |  |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|----------------|-------------|--|
| responsible dep.<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. |                |             |  |
|  | document type<br>datasheet    |                               | document status<br>released |                                                                                                              | customer       |             |  |
|                                                                                    | title<br>1LE1503-2BB23-4AA4-Z |                               | document number             |                                                                                                              |                |             |  |
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## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV3222B

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### Special design

L05 Second standard shaft extension

### Notes:

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