



**SIMOTICS SD - 225 M - IM B3 - 6p**

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

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

### 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) |       |      |          |      |       |         |       |                 |      |              |                    |                        |      |                                |                                |                                |       |
| 400                              | Δ     | 50   | 26.10    | -/-  | 50.00 | 980     | 254.3 | 93.3            | 93.6 | 93.4         | 0.81               | 0.75                   | 0.65 | 7.6                            | 3.0                            | 3.5                            | IE3   |
|                                  |       |      |          |      |       |         |       |                 |      |              |                    |                        |      |                                |                                |                                |       |
|                                  |       |      |          |      |       |         |       |                 |      |              |                    |                        |      |                                |                                |                                |       |
|                                  |       |      |          |      |       |         |       |                 |      |              |                    |                        |      |                                |                                |                                |       |
| IM B3 / IM 1001                  |       |      | FS 225 M |      |       |         | IP55  | UKCA            |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

Locked rotor time (hot / cold) : 35.3 s | 49.9 s

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

|                                                                                     |                                |                                |                                 |                                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 64 / 77 dB(A) <sup>2) 3)</sup> | 66 / 80 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                |
| Moment of inertia                                                                   | 0.6700 kg m²                   |                                | Thermal class                   | F                                                |
| Bearing DE   NDE                                                                    | 6213 Z C3                      | 6213 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> | 40000 h                        | 32000 h                        | Frame material                  | cast iron                                        |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 325 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                | (F) 1 temperature sensor KTY84-130 (2 terminals) |
| External earthing terminal                                                          | With (standard)                |                                | Method of cooling               | IC411 - self ventilated, surface cooled          |

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 35 mm²              |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 27 mm - 35 mm       |
| Type of terminal box     | TB1 L01   | Cable entry                    | 2xM50x1,5-2xM20x1,5 |
| Contact screw thread     | M8        | Cable gland                    | 4 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>                                                        |      |
| IN LVM                                                                             |                      | SPC        |             |                                                                                                              |               |  |      |
|  | document type        |            |             | document status                                                                                              |               |  |      |
|                                                                                    | datasheet            |            |             | released                                                                                                     |               |                                                                                       |      |
|                                                                                    | title                |            |             | document number                                                                                              |               |                                                                                       |      |
|                                                                                    | 1LE1503-2BC20-4AF4-Z |            |             |                                                                                                              |               |                                                                                       |      |
|                                                                                    | B02+G06+N07          |            |             | rev.                                                                                                         | creation date | language                                                                              | Page |
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|     |                                                  |     |                                                                                                |
|-----|--------------------------------------------------|-----|------------------------------------------------------------------------------------------------|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204 | N07 | Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced |
| G06 | Mounting a rotary pulse encoder HOG 10 D 1024 I  |     |                                                                                                |

Notes:

|                            |                               |                   |             |                                                                                                              |                             |                                                                                       |             |
|----------------------------|-------------------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
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| SIEMENS                    | document type<br>datasheet    |                   |             | document status<br>released                                                                                  |                             |  |             |
|                            | title<br>1LE1503-2BC20-4AF4-Z |                   |             | document number                                                                                              |                             |                                                                                       |             |
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