



**SIMOTICS SD - 250 M - IM B3 - 2p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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> |       |
| 400             | Δ     | 50   | 55.00    | -/-  | 95.00  | 2975    | 177.0 | 94.3            | 94.5 | 93.9 | 0.89                   | 0.87 | 0.80 | 6.7                            | 2.3                            | 3.1                            | IE3   |
| 690             | Y     | 50   | 55.00    | -/-  | 55.00  | 2975    | 177.0 | 94.3            | 94.5 | 93.9 | 0.89                   | 0.87 | 0.80 | 6.7                            | 2.3                            | 3.1                            | IE3   |
| 460             | Δ     | 60   | 62.00    | -/-  | 92.00  | 3575    | 166.0 | 93.6            | 93.6 | 92.7 | 0.90                   | 0.88 | 0.82 | 6.7                            | 2.3                            | 3.0                            | IE3   |
| 460             | Δ     | 60   | 55.00    | -/-  | 83.00  | 3578    | 147.0 | 93.6            | 93.4 | 92.3 | 0.89                   | 0.87 | 0.79 | 7.3                            | 2.5                            | 3.3                            | IE3   |
| IM B3 / IM 1001 |       |      | FS 250 M |      | 385 kg |         | IP55  | IEC/EN 60034    |      |      | IEC, DIN, ISO, VDE, EN |      |      |                                |                                |                                |       |

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 33.7 s | 53.5 s

## Mechanical data

|                                                                                     |                                 |                                 |                            |                                         |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 73.0 / 87.0 dB(A) <sup>2)</sup> | 76.0 / 90.0 dB(A) <sup>2)</sup> | External earthing terminal | Yes (standard)                          |
| Moment of inertia                                                                   | 0.4600 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                    | 6215 C3                         | 6215 C3                         | Insulation                 | 155(F) to 130(B)                        |
| bearing lifetime                                                                    |                                 |                                 | Duty type                  | S1                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> <sup>1)</sup> for coupling operation 50 60Hz | 40000 h                         | 32000 h                         | Direction of rotation      | bidirectional                           |
| Relubrication interval/quantity DE   NDE                                            | 20 g                            | 20 g                            | Frame material             | cast iron                               |
| Lubricants                                                                          | 4000 h                          |                                 | Coating (paint finish)     | Standard paint finish C2                |
| Regreasing device                                                                   | Unirex N3                       |                                 | Color, paint shade         | RAL7030                                 |
| Grease nipple                                                                       | Yes                             |                                 | Motor protection           | (A) without (Standard)                  |
| Type of bearing                                                                     | M10x1 DIN 3404 A                |                                 | Method of cooling          | IC411 - self ventilated, surface cooled |
| Condensate drainage holes                                                           | Locating bearing NDE            |                                 |                            |                                         |
|                                                                                     | Yes (standard)                  |                                 |                            |                                         |

## Terminal box

|                          |           |                                |                   |
|--------------------------|-----------|--------------------------------|-------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 120.0 mm²         |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 34.0 mm - 42.0 mm |
| Type of terminal box     | TB1 N01   | Cable entry                    | 2xM63x1,5         |
| Contact screw thread     | M10       | 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.<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>1LE1503-2CA23-4AA4-Z |                               |             | document number                                                                                              |                                   |                |             |
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|     |                                     |     |                                         |
|-----|-------------------------------------|-----|-----------------------------------------|
| L23 | Regreasing system                   | Y82 | Auxiliary name plate with customer data |
| Y56 | Paint finish in special RAL colours |     |                                         |

Notes:

|                                                                                    |                      |                 |             |                                                                                                              |                  |          |      |
|------------------------------------------------------------------------------------|----------------------|-----------------|-------------|--------------------------------------------------------------------------------------------------------------|------------------|----------|------|
| responsible dep.                                                                   | technical reference  | created by      | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                  |          |      |
| DI MC LVM                                                                          |                      | DT Configurator |             |                                                                                                              |                  |          |      |
|  | document type        |                 |             | document status                                                                                              |                  | customer |      |
|                                                                                    | datasheet            |                 |             | released                                                                                                     |                  |          |      |
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|                                                                                    | 1LE1503-2CA23-4AA4-Z |                 |             |                                                                                                              |                  |          |      |
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