



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

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

## 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> |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>             |       |      |          |      |       |         |       |                 |      |                                                  |                    |      |      |                                |                                |                                |       |
| 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 |      |       | IP55    | UKCA  | IEC/EN 60034    |      | IEC, DIN, ISO, VDE, EN                           |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |      |          |      |       |         |       |                 |      | Locked rotor time (hot / cold) : 34.1 s   54.3 s |                    |      |      |                                |                                |                                |       |

|                                                                                           |                                |                                |                                 |                                                    |
|-------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                      | 73 / 87 dB(A) <sup>2) 3)</sup> | 76 / 90 dB(A) <sup>2) 3)</sup> | External earthing terminal      | With (standard)                                    |
| Moment of inertia                                                                         | 0.4600 kg m²                   |                                | Vibration severity grade        | A                                                  |
| Bearing DE   NDE                                                                          | 6215 C3                        | 6215 C3                        | Thermal class                   | F                                                  |
| <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                                      |
| Relubrication interval/quantity DE  <br>NDE                                               | 20 g   20 g<br>4000 h          |                                | Frame material                  | cast iron                                          |
| Lubricants                                                                                | Unirex N3                      |                                | Net weight of the motor (IM B3) | 385 kg                                             |
| Regreasing device                                                                         | With regreasing nipple         |                                | Coating (paint finish)          | Standard paint finish C2                           |
| Grease nipple                                                                             | M10x1 DIN 71412 A              |                                | Color, paint shade              | RAL7030                                            |
| Type of bearing                                                                           | Locating bearing NDE           |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| Condensate drainage holes                                                                 | With (standard)                |                                | Method of cooling               | IC411 - self ventilated, surface cooled            |

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 120 mm²             |
| 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             |

3) Value is valid only for DOL operation with motor design IC411

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## Special design

L19 Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A

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