



**SIMOTICS XP - 100 L - IM B5 - 4p**

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

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

-/-

## Electrical data

| 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   | 2.20     | -/-  | 7.80 | 1455    | 14.4 | 86.7            | 87.2                                           | 86.3 | 0.82                   | 0.76 | 0.64 | 8.3                            | 3.0                            | 3.8                            | IE3   |
| 400                                                  | Y     | 50   | 2.20     | -/-  | 4.45 | 1455    | 14.4 | 86.7            | 87.2                                           | 86.3 | 0.82                   | 0.76 | 0.64 | 8.3                            | 3.0                            | 3.8                            | IE3   |
| 460                                                  | Y     | 60   | 2.55     | -/-  | 4.30 | 1750    | 13.9 | 89.5            | 90.1                                           | 89.2 | 0.83                   | 0.77 | 0.66 | 8.8                            | 3.0                            | 3.9                            | IE3   |
| 460                                                  | Y     | 60   | 2.20     | -/-  | 3.85 | 1760    | 11.9 | 89.5            | 89.5                                           | 88.0 | 0.80                   | 0.73 | 0.61 | 9.9                            | 3.5                            | 4.6                            | IE3   |
| IM B5 / IM 3001                                      |       |      | FS 100 L |      |      | IP55    |      | IEC/EN 60034    |                                                |      | IEC, DIN, ISO, VDE, EN |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |      |         |      |                 | Locked rotor time (hot / cold) : 18.9 s   23 s |      |                        |      |      |                                |                                |                                |       |

## Mechanical data

|                                                                                        |                                |                                |                                 |                                         |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 67 / 75 dB(A) <sup>2) 3)</sup> | 70 / 78 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                      | 0.0101 kg m <sup>2</sup>       |                                | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                       | 6206 2Z C3                     | 6206 2Z C3                     | Duty type                       | S1                                      |
| <b>bearing lifetime</b>                                                                |                                |                                | Direction of rotation           | bidirectional                           |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                |
| Regreasing device                                                                      | Without                        |                                | Net weight of the motor (IM B3) | 25 kg                                   |
| Grease nipple                                                                          | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                |
| Type of bearing                                                                        | Preloaded bearing DE           |                                | Color, paint shade              | RAL7030                                 |
| Condensate drainage holes                                                              | Without                        |                                | Motor protection                | (A) without (Standard)                  |
| External earthing terminal                                                             | With (standard)                |                                | Method of cooling               | IC411 - self ventilated, surface cooled |

## Terminal box

|                          |           |                                |               |
|--------------------------|-----------|--------------------------------|---------------|
| Terminal box position    | top       | Max. cross-sectional area      | 4 mm²         |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11 mm - 21 mm |
| Type of terminal box     | TB1 F00   | Cable entry                    | 2xM32x1,5     |
| Contact screw thread     | M4        |                                |               |

Notes:

|                                                    |                                                          |                                                                  |
|----------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------|
| $I_L/I_N$ = locked rotor current / current nominal | 1) $L_{10\text{min}}$ , according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_L/M_N$ = locked rotor torque / torque nominal   | 2) at rated power / at full load                         |                                                                  |
| $M_b/M_N$ = break down torque / nominal torque     |                                                          |                                                                  |

|                            |                             |                   |             |                                                                                                              |                             |                                                                                       |             |
|----------------------------|-----------------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| responsible dep.<br>IN LVM | technical reference         | created by<br>SPC | 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                                                                                  |                             |  |             |
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