



**SIMOTICS XP - 112 M - IM B5 - 2p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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> |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>              |       |      |          |      |      |         |      |                 |                                                  |      |                    |      |      |                                |                                |                                |       |
| 380                                                  | Δ     | 50   | 4.00     | -/-  | 7.80 | 2950    | 12.9 | 88.1            | 88.7                                             | 88.2 | 0.89               | 0.86 | 0.78 | 8.7                            | 2.5                            | 4.0                            | IE3   |
| 660                                                  | Y     | 50   | 4.00     | -/-  | 4.45 | 2950    | 12.9 | 88.1            | 88.7                                             | 88.2 | 0.89               | 0.86 | 0.78 | 8.7                            | 2.5                            | 4.0                            | IE3   |
|                                                      |       |      |          |      |      |         |      |                 |                                                  |      |                    |      |      |                                |                                |                                |       |
| 440                                                  | Δ     | 60   | 4.00     | -/-  | 6.70 | 3560    | 10.7 | 88.5            | 88.0                                             | 86.2 | 0.89               | 0.84 | 0.76 | 10.8                           | 3.2                            | 5.1                            | IE3   |
| IM B5 / IM 3001                                      |       |      | FS 112 M |      |      | IP55    |      | IEC/EN 60034    |                                                  |      |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |      |         |      |                 | Locked rotor time (hot / cold) : 11.2 s   14.8 s |      |                    |      |      |                                |                                |                                |       |

## Mechanical data

|                                                                                        |                                |                                |                            |                                         |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 70 / 78 dB(A) <sup>2) 3)</sup> | 73 / 85 dB(A) <sup>2) 3)</sup> | Thermal class              | F                                       |
| Moment of inertia                                                                      | 0.0099 kg m²                   |                                | Duty type                  | S1                                      |
| Bearing DE   NDE                                                                       | 6306 2Z C3                     | 6306 2Z C3                     | Direction of rotation      | bidirectional                           |
| <b>bearing lifetime</b>                                                                |                                |                                | Frame material             | cast iron                               |
| L <sub>10mh</sub> F <sub>rad min</sub> for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Net weight of the motor    | 76 kg                                   |
| Regreasing device                                                                      | Without                        |                                | Motor weight incl. options | 76 kg                                   |
| Grease nipple                                                                          | -/-                            |                                | Coating (paint finish)     | Standard paint finish C2                |
| Type of bearing                                                                        | Locating 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 |
| Vibration severity grade                                                               | A                              |                                |                            |                                         |

## Terminal box

|                          |           |                                |               |
|--------------------------|-----------|--------------------------------|---------------|
| Terminal box position    | top       | Max. cross-sectional area      | 4 mm²         |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 11 mm - 21 mm |
| Type of terminal box     | TB1 F21   | Cable entry                    | -/-           |
| Contact screw thread     | M4        |                                |               |

Notes:

|                                                    |                                                 |                                                                  |
|----------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|
| $I_L/I_N$ = locked rotor current / current nominal | 1) $L_{10min}$ 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                                                                                  |                             |  |             |
|                            | title<br>1MB1553-1BA23-3FA4-Z |                   |             | document number                                                                                              |                             |                                                                                       |             |
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CD3112A

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Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204

Notes:

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