



**SIMOTICS XP - 112 M - IM V18 - 2p**

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

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

-/-

## Electrical data

| U                                                    | $\Delta / Y$ | f    | P        | P    | I    | n       | M    | $\eta^{3)}$  |                                                  |      | $\cos\varphi^{3)}$ |      |      | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|------------------------------------------------------|--------------|------|----------|------|------|---------|------|--------------|--------------------------------------------------|------|--------------------|------|------|-----------|-----------|-----------|-------|
| [V]                                                  |              | [Hz] | [kW]     | [hp] | [A]  | [1/min] | [Nm] | 4/4          | 3/4                                              | 2/4  | 4/4                | 3/4  | 2/4  | $I_A/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |
| DOL duty (S1) - 155(F) to 130(B)                     |              |      |          |      |      |         |      |              |                                                  |      |                    |      |      |           |           |           |       |
| 400                                                  | $\Delta$     | 50   | 4.00     | -/-  | 7.40 | 2950    | 12.9 | 88.1         | 88.7                                             | 88.2 | 0.89               | 0.86 | 0.78 | 8.7       | 2.5       | 4.0       | IE3   |
| 690                                                  | Y            | 50   | 4.00     | -/-  | 4.25 | 2950    | 12.9 | 88.1         | 88.7                                             | 88.2 | 0.89               | 0.86 | 0.78 | 8.7       | 2.5       | 4.0       | IE3   |
|                                                      |              |      |          |      |      |         |      |              |                                                  |      |                    |      |      |           |           |           |       |
| 460                                                  | $\Delta$     | 60   | 4.00     | -/-  | 6.40 | 3560    | 10.7 | 88.5         | 88.0                                             | 86.2 | 0.89               | 0.84 | 0.76 | 10.8      | 3.2       | 5.1       | IE3   |
| IM V18 / IM 3611                                     |              |      | FS 112 M |      |      | IP55    |      | IEC/EN 60034 |                                                  |      |                    |      |      |           |           | Grade 3   |       |
| 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> | 20000 h                        | 16000 h                        | Net weight of the motor    | 75 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           | (B) 3 PTC thermistors - for tripping (2 terminals) |
| 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:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque

1)  $L_{10mh}$  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                                                                                              |               |                                                                                       |      |
|                                                                                    | 1MB1553-1BA23-4MB4-Z |            |             |                                                                                                              |               |                                                                                       |      |
|                                                                                    | D32+D34+H00          |            |             |                                                                                                              |               |                                                                                       |      |
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|                                                                                    |                      |            |             | 951                                                                                                          | 2023-12-14    | en                                                                                    | 1/2  |



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|  | document type<br>datasheet    |                   |             | document status<br>released                                                                                  |                             |  |             |
|                                                                                    | title<br>1MB1553-1BA23-4MB4-Z |                   |             | document number                                                                                              |                             |                                                                                       |             |
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