

**SIMOTICS GP - 112 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> |       |
| 230             | Δ     | 50       | 4.00 | -/-   | 12.80 | 2950    | 12.9   | 88.1            | 88.7 | 88.2                             | 0.89               | 0.86 | 0.78 | 8.7                            | 2.5                            | 4.0                            | IE3   |
| 400             | Y     | 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   |
| 460             | Y     | 60       | 4.55 | -/-   | 7.20  | 3550    | 12.2   | 88.5            | 88.7 | 87.6                             | 0.90               | 0.87 | 0.81 | 9.0                            | 2.6                            | 4.1                            | IE3   |
| 460             | Y     | 60       | 3.70 | 5.00  | 6.00  | 3560    | 9.9    | 88.5            | 88.0 | 86.2                             | 0.88               | 0.84 | 0.76 | 10.8                           | 3.2                            | 5.1                            | MG1   |
| IM B3 / IM 1001 |       | FS 112 M |      | 34 kq |       | IP55    | CC032A | IEC/EN 60034    |      | IEC, EN, UL, CSA, NEMA MG1-12-12 |                    |      |      | kVA Code: P                    |                                |                                |       |

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

Locked rotor time (hot / cold) : 11.3 s | 14.9 s

## Mechanical data

|                                                                                          |                                 |                                 |                            |                                         |
|------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                     | 69.0 / 81.0 dB(A) <sup>2)</sup> | 73.0 / 85.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                        | 0.0120 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                         | 6206 2Z C3                      | 6206 2Z C3                      | Insulation                 | 155(F) to 130(B)                        |
| bearing lifetime                                                                         |                                 |                                 | 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                           |
| Lubricants                                                                               | Unirex N3                       |                                 | Frame material             | aluminum                                |
| Regreasing device                                                                        | No                              |                                 | Coating (paint finish)     | Standard paint finish C2                |
| Grease nipple                                                                            | -/-                             |                                 | Color, paint shade         | RAL7030                                 |
| Type of bearing                                                                          | Preloaded bearing DE            |                                 | Motor protection           | (A) without (Standard)                  |
| Condensate drainage holes                                                                | -/-                             |                                 | Method of cooling          | IC411 - self ventilated, surface cooled |

## Terminal box

|                          |           |                                |                   |
|--------------------------|-----------|--------------------------------|-------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 4.0 mm²           |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11.0 mm - 21.0 mm |
| Type of terminal box     | TB1 F00   | Cable entry                    | 2xM32x1,5         |
| Contact screw thread     | M4        | 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.                                                                   | 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                                                                                                     |                  |          |      |
|                                                                                    | title               |                 |             | document number                                                                                              |                  |          |      |
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