



**SIMOTICS GP - 112 M - IM B5 - 4p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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> |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>              |       |      |          |      |        |         |      |                 |                                                  |              |                    |                               |      |                                |                                |                                |       |
| 230                                                  | Δ     | 50   | 4.00     | -/-  | 13.80  | 1460    | 26.0 | 88.6            | 89.2                                             | 88.6         | 0.82               | 0.76                          | 0.65 | 7.1                            | 2.4                            | 3.7                            | IE3   |
| 400                                                  | Y     | 50   | 4.00     | -/-  | 7.90   | 1460    | 26.0 | 88.6            | 89.2                                             | 88.6         | 0.82               | 0.76                          | 0.65 | 7.1                            | 2.4                            | 3.7                            | IE3   |
| 460                                                  | Y     | 60   | 4.55     | -/-  | 7.70   | 1760    | 24.5 | 89.5            | 90.0                                             | 89.3         | 0.83               | 0.78                          | 0.67 | 7.3                            | 2.5                            | 3.8                            | IE3   |
| 460                                                  | Y     | 60   | 3.70     | 5.00 | 6.50   | 1770    | 20.0 | 89.5            | 90.0                                             | 88.3         | 0.80               | 0.72                          | 0.60 | 8.2                            | 2.9                            | 4.3                            | MG1   |
| IM B5 / IM 3001                                      |       |      | FS 112 M |      | CC032A |         | IP55 | UKCA            |                                                  | IEC/EN 60034 |                    | IEC, EN, UL, CSA, NEMA MG1-12 |      |                                | kVA Code: M                    |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |        |         |      |                 | Locked rotor time (hot / cold) : 16.1 s   21.8 s |              |                    |                               |      |                                |                                |                                |       |

|                                                                                        |                                |                                |                                 |                                         |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 58 / 70 dB(A) <sup>2) 3)</sup> | 62 / 74 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                      | 0.0170 kg m²                   |                                | 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) | 34 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                                                             | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled |

|                          |           |                                |               |
|--------------------------|-----------|--------------------------------|---------------|
| 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        | Cable gland                    | 2 plugs       |

Notes:

|                                                          |                                           |                                                                  |
|----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_{Lr}/I_{Ln}$ = locked rotor current / current nominal | 1) L10mh according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_r/M_{rn}$ = locked rotor torque / torque nominal      | 2) at rated power / at full load          |                                                                  |
| $M_b/M_{bn}$ = break down torque / nominal torque        |                                           |                                                                  |

|                                                                                    |                             |                               |             |                                                                                                              |                             |                                                                                       |             |
|------------------------------------------------------------------------------------|-----------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| responsible dep.<br>DI MC LVM                                                      | technical reference         | created by<br>DT Configurator | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                             | <a href="#">Link documents</a>                                                        |             |
|  | document type<br>datasheet  |                               |             | document status<br>released                                                                                  |                             |  |             |
|                                                                                    | title<br>1LE1023-1BB22-2FA4 |                               |             | document number                                                                                              |                             |                                                                                       |             |
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