

**SIMOTICS GP - 112 M - IM V1 - 2p**

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

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

## Safe Area

| 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  | $I_A/I_N$ | $T_A/T_N$ | $T_B/T_N$ |       |
| 380             | $\Delta$     | 50       | 4.00 | -/-   | 8.60 | 2935    | 13.0 | 83.1         | 82.9 | 80.5                   | 0.85               | 0.77 | 0.65 | 8.3       | 3.3       | 4.2       | IE1   |
| 660             | Y            | 50       | 4.00 | -/-   | 4.95 | 2935    | 13.0 | 83.1         | 82.9 | 80.5                   | 0.85               | 0.77 | 0.65 | 8.3       | 3.3       | 4.2       | IE1   |
| 440             | $\Delta$     | 60       | 4.55 | -/-   | 8.10 | 3535    | 12.3 | 84.5         | 84.2 | 82.1                   | 0.87               | 0.82 | 0.71 | 9.0       | 3.3       | 4.6       | IE1   |
|                 |              |          |      |       |      |         |      |              |      |                        |                    |      |      |           |           |           |       |
| IM V1 / IM 3011 |              | FS 112 M |      | 25 kg |      | IP55    |      | IEC/EN 60034 |      | IEC, DIN, ISO, VDE, EN |                    |      |      |           |           |           |       |

Locked rotor time (hot / cold) : 4.18 s | 8.13 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                                                                   | 0.0067 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 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                                                                     | Locating bearing DE             |                                 | Motor protection           | (B) 3 PTC thermistors - for tripping (2 terminals) |
| Condensate drainage holes                                                           | No                              |                                 | 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                    | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 3 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                                                                                              |                  |          |      |
|                                                                                    | 1LE1002-1BA23-3GB4-Z |                 |             |                                                                                                              |                  |          |      |
|                                                                                    | D22+L20              |                 |             | rev.                                                                                                         | creation date    | language | Page |
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## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV1112A

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### Special design

D22 motor without CE character for export outside the EEA (see EU regulation 640/2009) L20 Locating bearing, DE

### Notes:

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