



**SIMOTICS GP - 71 M - IM B14 - 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> |       |
| 230              | Δ     | 50   | 0.37    | -/-  | 1.88 | 1350    | 2.6  | 66.0            | 67.7 | 65.0         | 0.75               | 0.66                   | 0.52 | 3.2                            | 2.0                            | 2.0                            | IE1   |
| 400              | Y     | 50   | 0.37    | -/-  | 1.08 | 1350    | 2.6  | 66.0            | 67.7 | 65.0         | 0.75               | 0.66                   | 0.52 | 3.2                            | 2.0                            | 2.0                            | IE1   |
| 460              | Y     | 60   | 0.43    | -/-  | 1.03 | 1650    | 2.5  | 70.0            | 71.3 | 68.9         | 0.75               | 0.66                   | 0.53 | 3.6                            | 2.1                            | 2.1                            | IE1   |
|                  |       |      |         |      |      |         |      |                 |      |              |                    |                        |      |                                |                                |                                |       |
| IM B14 / IM 3601 |       |      | FS 71 M |      | kg   |         | IP55 |                 |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

Locked rotor time (hot / cold) : 27.8 s | 43.3 s

|                                                                                     |                                 |                                 |                            |                                         |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 54.0 / 65.0 dB(A) <sup>2)</sup> | 50.0 / 61.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                   | 0.0008 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                    | 6202 2Z C3                      | 6202 2Z C3                      | Insulation                 | 155(F) to 130(B)                        |
| bearing lifetime                                                                    |                                 |                                 | Duty type                  | S1                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation | 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 position    | top       | Max. cross-sectional area      | 1.5 mm²          |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 9.0 mm - 17.0 mm |
| Type of terminal box     | TB1 B00   | Cable entry                    | 1xM25x1,5        |
| Contact screw thread     | M4        | Cable gland                    | 1 plug           |

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                                                                                              |                  |          |      |
|                                                                                    | 1LE1002-0CB32-2KA4-Z |                 |             |                                                                                                              |                  |          |      |
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|                                                                                    |                      |                 |             | 01                                                                                                           | 2021-04-22 07:33 | en       | 1/2  |

## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV1073B

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## Special design

|     |                             |
|-----|-----------------------------|
| P01 | Next larger standard flange |
|-----|-----------------------------|

**Notes:**

|                                                                                    |                     |                      |             |                                                                                                              |                 |                  |          |      |
|------------------------------------------------------------------------------------|---------------------|----------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------|------------------|----------|------|
| 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       | datasheet            |             |                                                                                                              | document status |                  | customer |      |
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|                                                                                    |                     |                      |             |                                                                                                              | 01              | 2021-04-22 07:33 | en       | 2/2  |