



**SIMOTICS GP - 71 M - IM B14 - 4p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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  | $I_I/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |
| 230 | $\Delta$     | 50   | 0.37 | -/-  | 1.77 | 1380    | 2.5  | 72.7        | 73.2 | 69.9 | 0.72               | 0.63 | 0.49 | 3.8       | 2.3       | 2.4       | IE2   |
| 400 | Y            | 50   | 0.37 | -/-  | 1.02 | 1380    | 2.5  | 72.7        | 73.2 | 69.9 | 0.72               | 0.63 | 0.49 | 3.8       | 2.3       | 2.4       | IE2   |
| 460 | Y            | 60   | 0.43 | -/-  | 1.04 | 1680    | 2.5  | 72.0        | 72.4 | 69.4 | 0.72               | 0.63 | 0.50 | 4.0       | 2.4       | 2.4       | IE2   |
| 460 | Y            | 60   | 0.37 | -/-  | 0.96 | 1705    | 2.0  | 72.0        | 71.2 | 66.9 | 0.67               | 0.58 | 0.45 | 4.4       | 2.8       | 2.8       | IE2   |

|                  |  |         |    |      |  |              |                        |  |  |
|------------------|--|---------|----|------|--|--------------|------------------------|--|--|
| IM B14 / IM 3601 |  | FS 71 M | kg | IP55 |  | IEC/EN 60034 | IEC, DIN, ISO, VDE, EN |  |  |
|------------------|--|---------|----|------|--|--------------|------------------------|--|--|

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

Locked rotor time (hot / cold) : 32.6 s | 43.2 s

|                                                                                     |                                 |                                 |                            |                                         |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 44.0 / 55.0 dB(A) <sup>2)</sup> | 47.0 / 58.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                   | 0.0009 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                                                           | No                              |                                 | 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 B10   | Cable entry                    | 1xM25x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 2 plugs             |

**Notes:**

|                                                    |                                           |                                                                  |
|----------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_R/I_N$ = 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 |
| $M_R/M_N$ = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| $M_B/M_N$ = 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. |             |          |  |
|  | document type<br>datasheet | title<br>1LE1001-0CB32-2KA4-Z |                                   |  | document status<br>released                                                                                  |             | customer |  |
|                                                                                    | © Siemens AG 2021          |                               |                                   |  | document number                                                                                              |             |          |  |
| F01+F11+F50                                                                        |                            | rev.<br>01                    | creation date<br>2021-05-14 18:21 |  | language<br>en                                                                                               | Page<br>1/2 |          |  |

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



Motor type : 1AV2073B

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### Special design

|     |                                          |     |                                                               |
|-----|------------------------------------------|-----|---------------------------------------------------------------|
| F01 | Mounting a brake                         | F50 | Mechanical manual brake release with lever (cannot be locked) |
| F11 | Brake supply voltage, 230 V AC, 50/60 Hz |     |                                                               |

### Additional information:

#### Brake:

|              |           |                    |            |
|--------------|-----------|--------------------|------------|
| Description: | BFK458-06 | Current:           | .1 A       |
| Voltage:     | AC 230 V  | Moment of inertia: | .000013 Nm |

### Notes:

|                                                                                    |                               |                               |             |  |                                                                                                              |                                   |                |             |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|--|--------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------|-------------|
| 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. |                                   |                |             |
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