



**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> |       |
| DOL duty (S1) - 155(F) to 130(B)                     |       |      |         |      |      |         |      |                 |                                                  |              |                    |                        |      |                                |                                |                                |       |
| 230                                                  | Δ     | 50   | 0.55    | -/-  | 2.75 | 1405    | 3.8  | 77.1            | 76.3                                             | 72.3         | 0.65               | 0.55                   | 0.42 | 5.1                            | 3.6                            | 3.5                            | IE2   |
| 400                                                  | Y     | 50   | 0.55    | -/-  | 1.58 | 1405    | 3.8  | 77.1            | 76.3                                             | 72.3         | 0.65               | 0.55                   | 0.42 | 5.1                            | 3.6                            | 3.5                            | IE2   |
| 460                                                  | Y     | 60   | 0.63    | -/-  | 1.61 | 1705    | 3.5  | 75.5            | 74.5                                             | 70.8         | 0.65               | 0.56                   | 0.43 | 5.7                            | 3.7                            | 3.5                            | IE2   |
| 460                                                  | Y     | 60   | 0.55    | -/-  | 1.50 | 1720    | 3.0  | 75.5            | 73.8                                             | 69.1         | 0.61               | 0.52                   | 0.40 | 6.1                            | 3.9                            | 4.2                            | IE2   |
| IM B14 / IM 3601                                     |       |      | FS 71 M |      |      |         | IP55 | UKCA            |                                                  | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |         |      |      |         |      |                 | Locked rotor time (hot / cold) : 30.4 s   39.8 s |              |                    |                        |      |                                |                                |                                |       |

|                                                                                                     |                                           |                                      |                                 |                                         |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                                | 60.2 / 67.3 dB(A)<br><small>2) 3)</small> | 68.9 / 76 dB(A)<br><small>3)</small> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                                   | kg m <sup>2</sup>                         |                                      | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                                    | 6202 2Z C3                                | 6202 2Z C3                           | Duty type                       | S1                                      |
| <b>bearing lifetime</b>                                                                             |                                           |                                      | Direction of rotation           | bidirectional                           |
| <small>L<sub>10mh</sub> F<sub>Rad min</sub> for coupling operation<br/>50 60Hz<sup>1)</sup></small> | 40000 h                                   | 32000 h                              | Frame material                  | aluminum                                |
| Regreasing device                                                                                   | Without                                   |                                      | Net weight of the motor (IM B3) | 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                                                                          | With                                      |                                      | 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 mm - 17 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. |                             | <a href="#">Link documents</a>                                                        |             |
|  | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |  |             |
|                                                                                    | title<br>1LE1001-0CB62-2KA4-Z |                               |             | document number                                                                                              |                             |                                                                                       |             |
| © Siemens AG 2023                                                                  | F01+F11+F50+H04+R11           |                               |             | rev.<br>943                                                                                                  | creation date<br>2023-07-17 | language<br>en                                                                        | Page<br>1/2 |



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

|     |                                                               |     |                                                        |
|-----|---------------------------------------------------------------|-----|--------------------------------------------------------|
| F01 | Mounting of holding brake                                     | H04 | External grounding at housing                          |
| F11 | Brake supply voltage, 230 V AC, 50/60 Hz                      | R11 | Terminal box rotated through 90°, cable entry from NDE |
| F50 | Mechanical manual brake release with lever (cannot be locked) |     |                                                        |

Brake:

|              |           |                    |                           |
|--------------|-----------|--------------------|---------------------------|
| Description: | BFK458-06 | Current:           | .1 A                      |
| Voltage:     | AC 230 V  | Moment of inertia: | 0.000013 kgm <sup>2</sup> |

|                                                                                    |                               |                               |                             |                                                                                                              |                                                                                       |                                |  |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------|--|
| 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>1LE1001-OCB62-2KA4-Z |                               |                             |                                                                                                              |                                                                                       |                                |  |
| © Siemens AG 2023                                                                  | F01+F11+F50+H04+R11           | rev.<br>943                   | creation date<br>2023-07-17 |                                                                                                              | language<br>en                                                                        | Page<br>2/2                    |  |