



**SIMOTICS GP - 90 L - IM B14 - 2p**

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

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

## Safe Area

## Electrical data

-/-

| 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   | 2.20    | -/-  | 7.30 | 2910    | 7.2  | 85.9            | 86.8                                           | 86.1         | 0.88               | 0.83                   | 0.73 | 8.3                            | 2.6                            | 4.0                            | IE3   |
| 400                                                  | Y     | 50   | 2.20    | -/-  | 4.20 | 2910    | 7.2  | 85.9            | 86.8                                           | 86.1         | 0.88               | 0.83                   | 0.73 | 8.3                            | 2.6                            | 4.0                            | IE3   |
| 460                                                  | Y     | 60   | 2.55    | -/-  | 4.25 | 3510    | 6.9  | 85.5            | 86.0                                           | 84.9         | 0.88               | 0.84                   | 0.75 | 8.3                            | 2.6                            | 4.2                            | IE2   |
| 460                                                  | Y     | 60   | 2.20    | -/-  | 3.65 | 3530    | 6.0  | 86.5            | 86.4                                           | 84.5         | 0.87               | 0.82                   | 0.71 | 9.6                            | 3.0                            | 4.9                            | IE3   |
| IM B14 / IM 3601                                     |       |      | FS 90 L |      |      |         | IP55 | UKCA            |                                                | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |
| Environmental conditions : - 20 °C - +40 °C / 1000 m |       |      |         |      |      |         |      |                 | Locked rotor time (hot / cold) : 5.9 s   8.5 s |              |                    |                        |      |                                |                                |                                |       |

## Mechanical data

|                                                                                     |                                |                                |                                 |                                                   |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 65 / 77 dB(A) <sup>2) 3)</sup> | 69 / 81 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                 |
| Moment of inertia                                                                   | 0.0031 kg m²                   |                                | Thermal class                   | F                                                 |
| Bearing DE   NDE                                                                    | 6205 2Z C3                     | 6004 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 50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                          |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 19 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                | (B) 1 PTC thermistor - for tripping (2 terminals) |
| External earthing terminal                                                          | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled           |

## Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| 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 E00   | Cable entry                    | 1xM25x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 2 plugs             |

|                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| $I_A/I_N$ = locked rotor current / current nominal<br>$M_A/M_N$ = locked rotor torque / torque nominal<br>$M_B/M_N$ = break down torque / nominal torque |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|

1)  $L_{10mh}$  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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

|                                                                                    |  |                                       |                   |                                      |                                                                                                              |                             |                                                                                       |             |
|------------------------------------------------------------------------------------|--|---------------------------------------|-------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| Responsible department<br>IN LVM                                                   |  | Technical reference                   | Created by<br>SPC | Approved by<br>Created automatically | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                             | <a href="#">Link documents</a>                                                        |             |
|  |  | Document type<br>Technical data sheet |                   |                                      | Document status<br>Released                                                                                  |                             |  |             |
|                                                                                    |  | Title<br>1LE1003-0EA42-2KB4           |                   |                                      | Document number<br>TDS-240321-173731                                                                         |                             |                                                                                       |             |
| Restricted<br>© Innomotics 2024                                                    |  |                                       |                   |                                      | Rev.<br>AA                                                                                                   | Creation date<br>2024-03-21 | Language<br>en                                                                        | Page<br>1/1 |