



**SIMOTICS GP - 90 S - IM B35 - 4p**

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

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

## Safe Area

| U                                                   | Δ / Y | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[1/min] | M<br>[Nm] | 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]                                                 |       |           |           |           |          |              |           | 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> |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>             |       |           |           |           |          |              |           |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 230                                                 | Δ     | 50        | 1.10      | -/-       | 4.20     | 1440         | 7.3       | 84.1            | 84.7                                             | 83.4                   | 0.78               | 0.70 | 0.58 | 6.9                            | 2.9                            | 3.6                            | IE3   |
| 400                                                 | Y     | 50        | 1.10      | -/-       | 2.40     | 1440         | 7.3       | 84.1            | 84.7                                             | 83.4                   | 0.78               | 0.70 | 0.58 | 6.9                            | 2.9                            | 3.6                            | IE3   |
| 460                                                 | Y     | 60        | 1.27      | -/-       | 2.40     | 1740         | 7.0       | 84.0            | 84.4                                             | 83.1                   | 0.79               | 0.72 | 0.60 | 7.4                            | 2.9                            | 3.8                            | IE2   |
| 460                                                 | Y     | 60        | 1.10      | -/-       | 2.15     | 1750         | 6.0       | 86.5            | 86.4                                             | 84.2                   | 0.75               | 0.67 | 0.54 | 8.2                            | 3.4                            | 4.4                            | IE3   |
| IM B35 / IM 2001                                    |       |           | FS 90 S   |           |          | IP55         | UKCA      | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |           |           |           |          |              |           |                 | Locked rotor time (hot / cold) : 21.1 s   25.4 s |                        |                    |      |      |                                |                                |                                |       |

|                                                                                        |                                |                                |                                 |                                         |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 56 / 68 dB(A) <sup>2) 3)</sup> | 58 / 70 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                      | 0.0036 kg m <sup>2</sup>       |                                | 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<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                |
| Regreasing device                                                                      | Without                        |                                | Net weight of the motor (IM B3) | 16 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                                                             | Without                        |                                | 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 E00   | Cable entry                    | 1xM25x1,5    |
| Contact screw thread     | M4        | Cable gland                    | 1 plug       |

Notes:

|                                                    |                                           |                                                                  |
|----------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_L/I_N$ = 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 |
| $M_L/M_N$ = 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><br> |             |
|  | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |                                    |             |
|                                                                                    | title<br>1LE1003-0EB02-2JA4-Z |                               |             | document number                                                                                              |                             |                                                                                                                         |             |
| © Siemens AG 2023                                                                  | H01                           |                               |             | rev.<br>943                                                                                                  | creation date<br>2023-06-26 | language<br>en                                                                                                          | Page<br>1/2 |



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## Special design

|     |                                           |
|-----|-------------------------------------------|
| H01 | Bolted on mounting feet (instead of cast) |
|-----|-------------------------------------------|

Notes:

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