



**SIMOTICS GP - 90 L - IM B35 - 2p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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   | 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 B35 / IM 2001                                    |       |      | 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 |              |                    |                        |      |                                |                                |                                |       |

|                                                                                     |                                |                                |                                 |                                         |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| 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                | (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>                                                        |             |
|  | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |  |             |
|                                                                                    | title<br>1LE1003-0EA42-2JA4-Z |                               |             | document number                                                                                              |                             |                                                                                       |             |
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3094A

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Special design

H01 Bolted on mounting feet (instead of cast)

Notes:

|                                                                                    |                               |                               |             |                                                                                                              |                                |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
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| © Siemens AG 2023                                                                  | H01                           |                               |             |                                                                                                              | rev.<br>943                    |
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|                                                                                    |                               | language<br>en                | Page<br>2/2 |                                                                                                              |                                |

