



**SIMOTICS GP - 180 M - 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)                    |       |      |          |      |       |         |      |                 |                                                  |      |                        |      |      |                                |                                |                                |       |
| 400                                                 | Δ     | 50   | 22.00    | -/-  | 38.50 | 2950    | 71.0 | 92.7            | 93.2                                             | 92.9 | 0.89                   | 0.86 | 0.79 | 7.5                            | 2.3                            | 3.5                            | IE3   |
| 690                                                 | Y     | 50   | 22.00    | -/-  | 22.50 | 2950    | 71.0 | 92.7            | 93.2                                             | 92.9 | 0.89                   | 0.86 | 0.79 | 7.5                            | 2.3                            | 3.5                            | IE3   |
| 460                                                 | Δ     | 60   | 24.50    | -/-  | 37.50 | 3550    | 66.0 | 91.7            | 92.0                                             | 91.4 | 0.89                   | 0.86 | 0.79 | 7.7                            | 2.3                            | 3.6                            | IE3   |
| 460                                                 | Δ     | 60   | 22.00    | -/-  | 34.00 | 3560    | 59.0 | 91.7            | 91.8                                             | 90.9 | 0.89                   | 0.89 | 0.80 | 9.0                            | 2.5                            | 3.9                            | IE3   |
| IM B35 / IM 2001                                    |       |      | FS 180 M |      |       | IP55    | UKCA | IEC/EN 60034    |                                                  |      | IEC, DIN, ISO, VDE, EN |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |      |          |      |       |         |      |                 | Locked rotor time (hot / cold) : 20.1 s   30.7 s |      |                        |      |      |                                |                                |                                |       |

|                                                                                        |                                |                                |                                 |                                                    |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 73 / 80 dB(A) <sup>2) 3)</sup> | 78 / 85 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                      | 0.0800 kg m²                   |                                | Thermal class                   | F                                                  |
| Bearing DE   NDE                                                                       | 6210 2Z C3                     | 6210 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) | 122 kg                                             |
| Grease nipple                                                                          | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                           |
| Type of bearing                                                                        | Locating bearing NDE           |                                | Color, paint shade              | RAL7030                                            |
| Condensate drainage holes                                                              | Without                        |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| External earthing terminal                                                             | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled            |

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 16 mm²              |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 19 mm - 28 mm       |
| Type of terminal box     | TB1 J00   | Cable entry                    | 2xM40x1,5-1xM16x1,5 |
| Contact screw thread     | M5        | Cable gland                    | 3 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>1LE1003-1EA23-4JB4 |                               |             | document number                                                                                              |                             |                                                                                       |             |
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