



**SIMOTICS GP - 180 M - IM B5 - 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> |       |
| 400             | Δ     | 50   | 22.00    | -/-  | 40.00  | 2940    | 71.0 | 91.3            | 91.8 | 91.3         | 0.87               | 0.83                   | 0.74 | 7.4                            | 2.7                            | 3.6                            | IE2   |
| 690             | Y     | 50   | 22.00    | -/-  | 23.00  | 2940    | 71.0 | 91.3            | 91.8 | 91.3         | 0.87               | 0.83                   | 0.74 | 7.4                            | 2.7                            | 3.6                            | IE2   |
| 460             | Δ     | 60   | 24.50    | -/-  | 39.00  | 3540    | 66.0 | 91.0            | 91.2 | 90.3         | 0.87               | 0.83                   | 0.75 | 7.7                            | 2.8                            | 3.8                            | IE2   |
| 460             | Δ     | 60   | 22.00    | -/-  | 35.50  | 3550    | 59.0 | 91.0            | 91.2 | 90.3         | 0.86               | 0.82                   | 0.74 | 8.4                            | 3.0                            | 4.1                            | IE2   |
| IM B5 / IM 3001 |       |      | FS 180 M |      | 123 kg |         | IP55 |                 |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 10.4 s | 19.8 s

## Mechanical data

|                                                                                       |                                 |                                 |                            |                                                    |
|---------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                  | 77.0 / 84.0 dB(A) <sup>2)</sup> | 80.0 / 87.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                                 |
| Moment of inertia                                                                     | 0.0690 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                                  |
| Bearing DE   NDE                                                                      | 6210 Z C3                       | 6210 Z C3                       | Insulation                 | 155(F) to 130(B)                                   |
| bearing lifetime                                                                      |                                 |                                 | Duty type                  | S1                                                 |
| L <sub>10mh</sub> , F <sub>Rad,min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 40000 h                         | 32000 h                         | Direction of rotation      | bidirectional                                      |
| Lubricants                                                                            | Unirex N3                       |                                 | Frame material             | aluminum                                           |
| Regreasing device                                                                     | No                              |                                 | Coating (paint finish)     | Standard paint finish C2                           |
| Grease nipple                                                                         | -/                              |                                 | Color, paint shade         | RAL7030                                            |
| Type of bearing                                                                       | Locating bearing NDE            |                                 | Motor protection           | (B) 3 PTC thermistors - for tripping (2 terminals) |
| Condensate drainage holes                                                             | -/                              |                                 | Method of cooling          | IC411 - self ventilated, surface cooled            |

## Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 16.0 mm²            |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 19.0 mm - 28.0 mm   |
| Type of terminal box     | TB1 J00   | Cable entry                    | 2xM40x1,5-1xM16x1,5 |
| Contact screw thread     | M5        | Cable gland                    | 3 plugs             |

**Notes:**

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque

1) L10mh 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

|                                                                                    |                             |                               |             |                                                                                                              |                                   |                |             |
|------------------------------------------------------------------------------------|-----------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------|-------------|
| 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. |                                   |                |             |
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